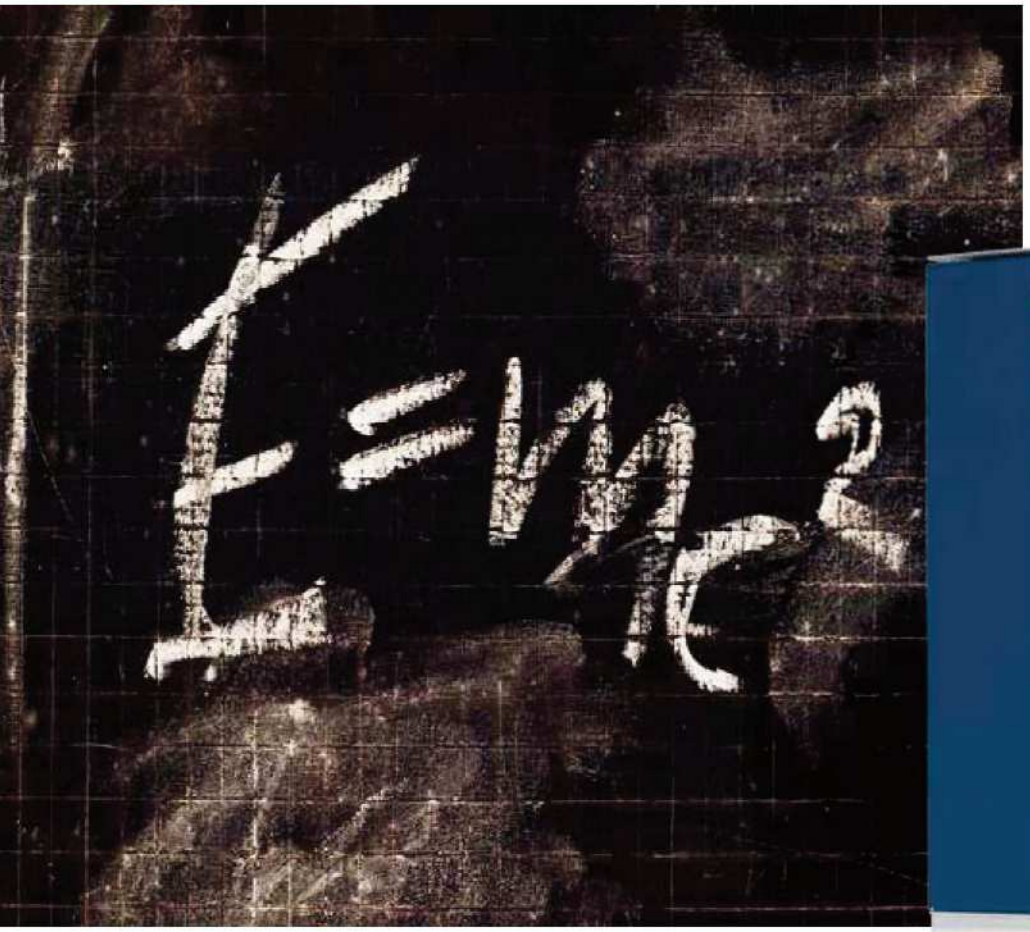
fourgroup

ORION PRODUKT d.o.o.





Sustavi protiv zamračenja ("Anti Black-out")
ENERBOX i ECOBOX
Fotonaponski i vjetroturbinski sustavi
ENERGREEN i SUNSYSTEM

MADE IN ITALY
SINCE 1997


fourgroup

fourgroup
GENERATORS

fourgroup
CONTROL PANELS

fourgroup
BOOSTER SETS



TKO JE FOURGROUP

FOURGROUP je jedan od lidera na tržištu. Njegova proizvodnja je usmjerena na visoke standarde kvalitete i dizajna.
FOURGROUP je jedan od najvažnijih proizvođača i distributera proizvoda za čistu vodu i pročišćavanje otpadnih voda i za upravljanje i transformaciju energije.
FOURGROUP je uvijek usmjeravao svoju punu pozornost na potrebe kupca i razvija veliku osjetljivost.
Inovativna rješenja i stalna istraživanja za nove proizvode visokog standarda čine FOURGROUP jednom od najinovativnijih tvrtki i referentnom točkom na tržištu.

fourgroup CONTROL PANELS

fourgroup BOOSTER SETS

fourgroup GENERATORS

MADE IN ITALY SINCE 1997

WHO WE ARE

FOURGROUP is one of leaders company in the market.
His production is focused on high quality standard and design.
FOURGROUP in one of the most important manufacturers and distributors of products for clean and waste water treatment and control and transformation of energy.
FOURGROUP has always given its full attention to customer's needs and developing great sensibility.
Innovative solution and the costant research for new a high standard quality products, make FOURGROUP one of the most innovative companies and a reference point in the market.

fourgroup:

Dinamično & sportski opredjeljen

Dynamic & Sports-minded

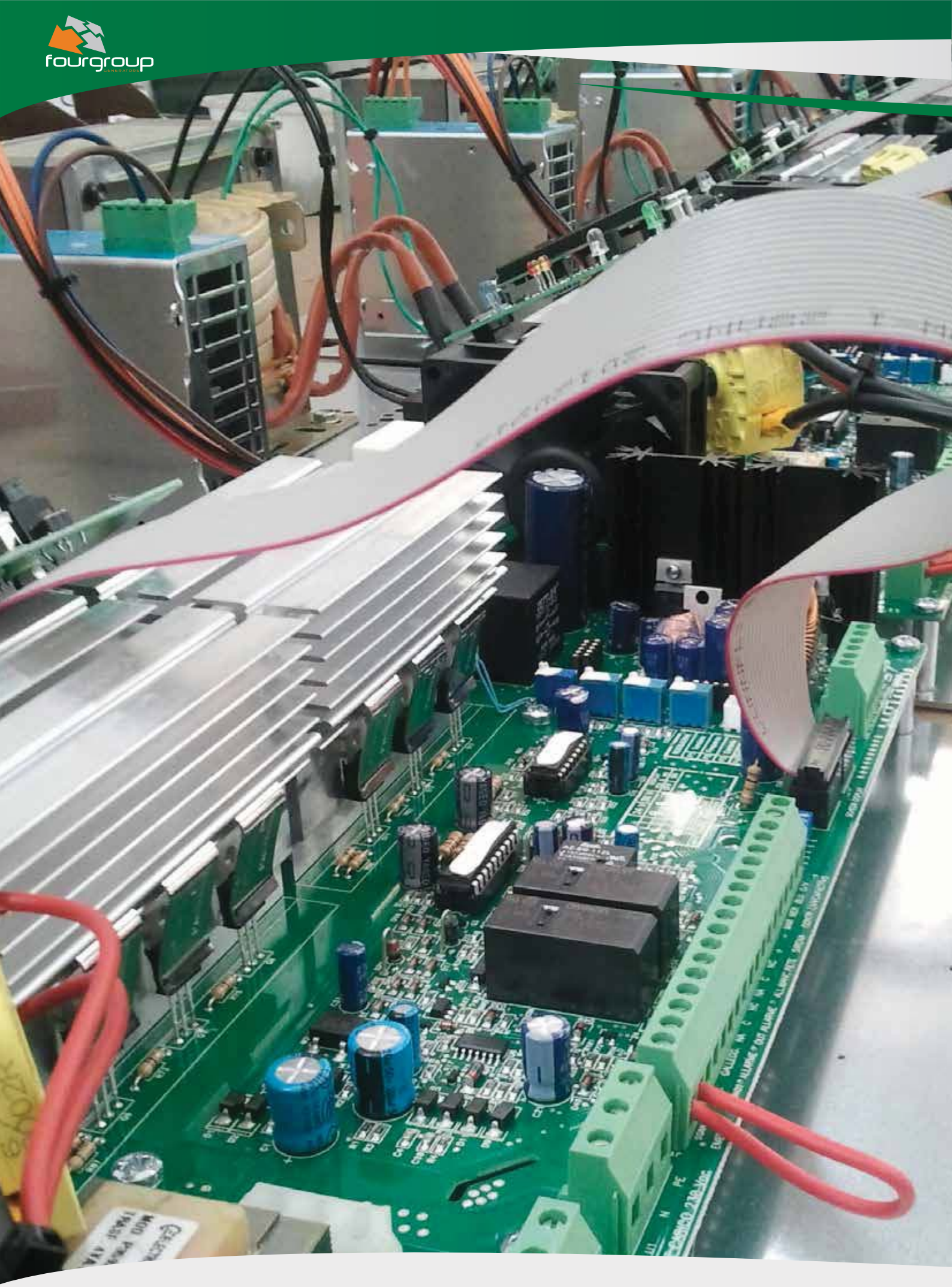
STRAST ZA IZAZOVIMA

FOURGROUP proizvodi i marke su uvijek predstavljali stalni izazov u međunarodnom proizvodnom tržištu: ovo opredjeljenje je također zastupljeno u sportu, gdje FOURGROUP podržava jedan mladi, ali vodeći tim!



PASSION FOR CHALLENGES

Fourgroup products and brands have always represented a continuous challenge in the international manufacturing market: this commitment is also represented in Sport, where Fourgroup supports one young but leading Team!



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sustav protiv zamračenja
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the anti black-out system

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samostojeći fotonaponski i vodocrpni sustav
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SAMOSTOJEĆE INSTALACIJE
fotonaponski paneli i vjetroturbine

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ENERBOX - SUSTAV PROTIV ZAMRAČENJA
ENERBOX - THE ANTI BLACK-OUT SYSTEM



KUTIJA ENERGIJE
ENERBOX skladišti energiju i - u slučaju nestanka napajanja - dobavlja ju unutar par sekundi ... ... i - ne brinite, ENERBOX radi potpuno automatski.

A BOX OF ENERGY
It stores energy and, in case of power loss, it supplies it within few seconds...don't worry Enerbox is completely automatic!



UPRAVLJANJE PUNJENJEM
Punjenjem se upravlja preko integriranog upravljačkog panela.

CHARGE MANAGEMENT
The charge is managed by an integrated control panel.



INTEGRIRANI GSM
Sve važne informacije primit ćete zahvaljujući integriranom GSM-u. ENERBOX šalje sve podatke za slučaj: zamračenja, potvrde rada sustava, kvara, periodičkog održavanja.

GSM INTEGRATED
You will receive important information by sms thank to the integrated GSM....relax and go on holiday, Enerbox brings you up to date in case of: black out, system ok, failure, periodic maintenance.





JAMSTVO
U slučaju nestanka struje **ENERBOX jamči opskrbu energijom za pumpe, motore, svjetla** ... nikada više bez struje i u mraku u slučaju gubitka napajanja.

GUARANTEE
In case of black out Enerbox guarantee energy supply for pumps, motors, lights...never more without energy in case of power loss.

enerbox

VELIKI RASPON
Veliki monofazni raspon do 5100 VA.

BIG RANGE
Big singlephase range up to 5100VA



PERIODIČKI TEST PUNJENJA
ENERBOX tjedno testira korektan rad punjenja. On će vam poslati poruku u slučaju bilo kakvog kvara.

CHARGE PERIODIC TEST
Enerbox weekly test the correct charge operating..it will send you a message in case of any failure.



DOMOTIC SUSTAV
Molimo, upitajte nas za "BUS sučelje" radi kompletiranja vašeg *domotic* sustava.

DOMOTIC SYSTEM
Please, ask us for bus interface to complete your domotic system.

Izaberi svoju boju! Choose your color!



TIPIČNA INSTALACIJA - SUSTAV PROTIV ZAMRAČENJA
TYPICAL INSTALLATION - ANTI BLACK-OUT SYSTEM



Zamračenje?

... Nestanak električne energije u mreži?

...ne brinite, vi imate Enerbox!

...don't worry, you have Enerbox!

ENERGREEN - FOTONAPONSKI / VJETROTURBINSKI SUSTAV
ENERGREEN - THE PHOTOVOLTAIC/WIND TURBINE SYSTEM



KUTIJA ENERGIJE
ENERBOX skladišti energiju i - u slučaju nestanka napajanja - dobavlja ju unutar par sekundi ... ... i - ne brinite, ENERBOX radi potpuno automatski.

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It stores energy and, in case of power loss, it supplies it within few seconds...don't worry Enerbox is completely automatic!



JAMSTVO
U slučaju nestanka struje **ENERBOX jamči opskrbu energijom za pumpe, motore, svjetla** ... nikada više bez struje i u mraku u slučaju gubitka napajanja.

GUARANTEE
Energreen guarantee the charge in any remote locations without main electrical supply..



UPRAVLJANJE PUNJENJEM
Punjenjem se upravlja preko integriranog upravljačkog panela.

The charge is managed by an integrated control panel.



energreen

VELIKI RASPON
Veliki monofazni raspon do 5100 VA.

BIG RANGE
Big singlephase range up to 5100VA



ZELENA ENERGIJA
Radi u samostojećoj verziji s fotonaponskim panelima i vjetro-turbinama ... dobavlja energiju na bilo kojoj udaljenoj lokaciji.

GREEN ENERGY
It works in stand alone version with photovoltaic panels and wind turbines... it supplies energy in any remote location.



INTEGRIRANI GSM
Sve važne informacije primit ćete zahvaljujući integriranom GSM-u. ENERBOX šalje sve podatke za slučajeve: zamračenja, potvrde rada sustava, kvara, periodičkog održavanja.

GSM INTEGRATED
You will receive important information by sms thank to the integrated GSM....relax and go on holiday. Enerbox brings you up to date in case of: system ok, failure, periodic maintenance.



PERIODIČKI TEST PUNJENJA
ENERBOX tjedno testira korektan rad punjenja. On će vam poslati poruku u slučaju bilo kakvog kvara.

CHARGE PERIODIC TEST
Enerbox weekly test the correct charge operating..it will send you a message in case of any failure.

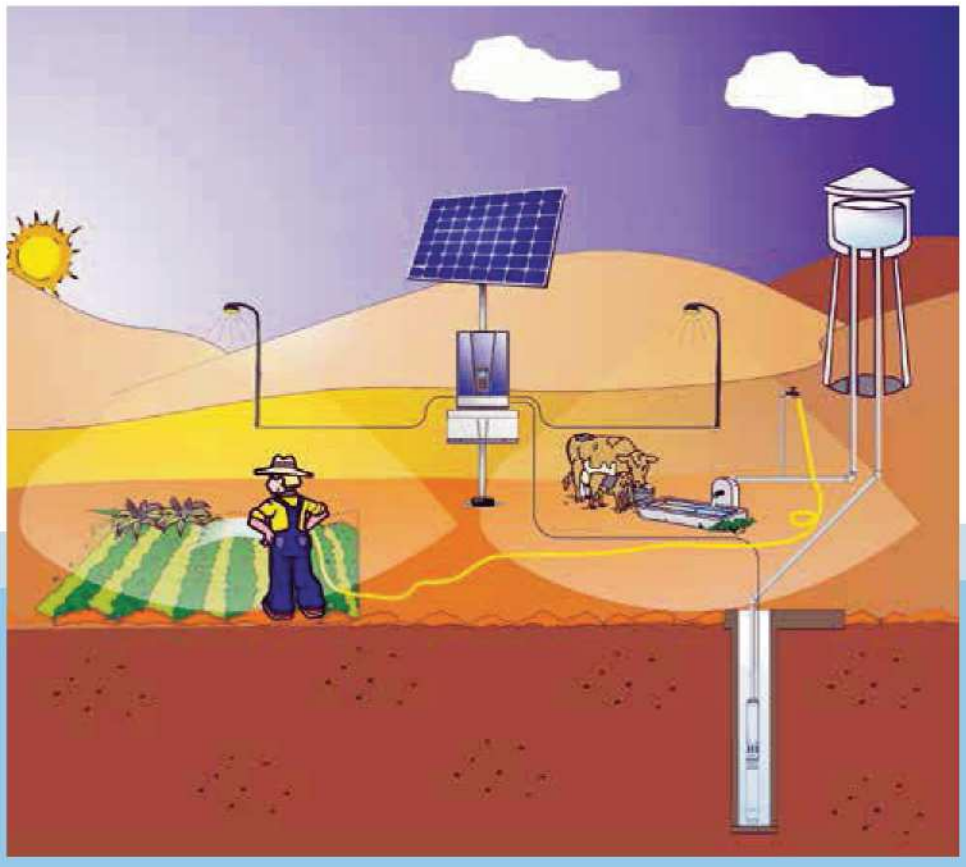
Izaberi svoju boju! Choose your color!



ENERGREEN: ENERGIJA ZA UDALJENE PRIMJENE
ENERGREEN: ENERGY FOR REMOTE APPLICATIONS

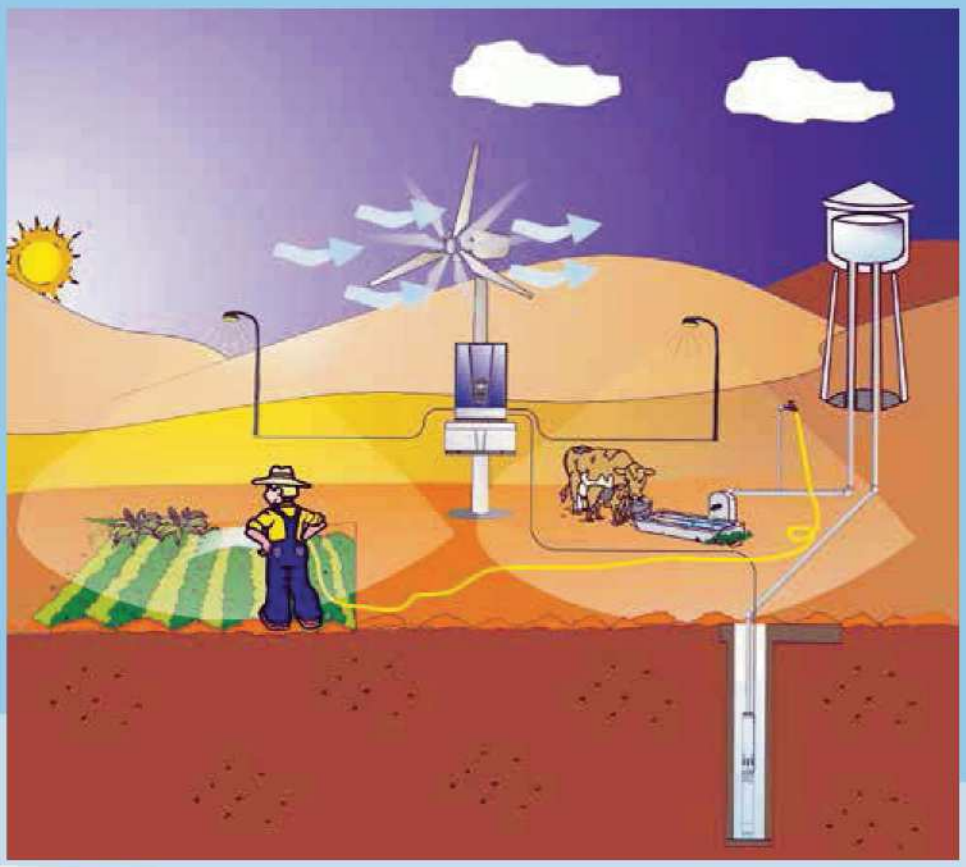
Fotonaponska zelena energija

Photovoltaic green energy

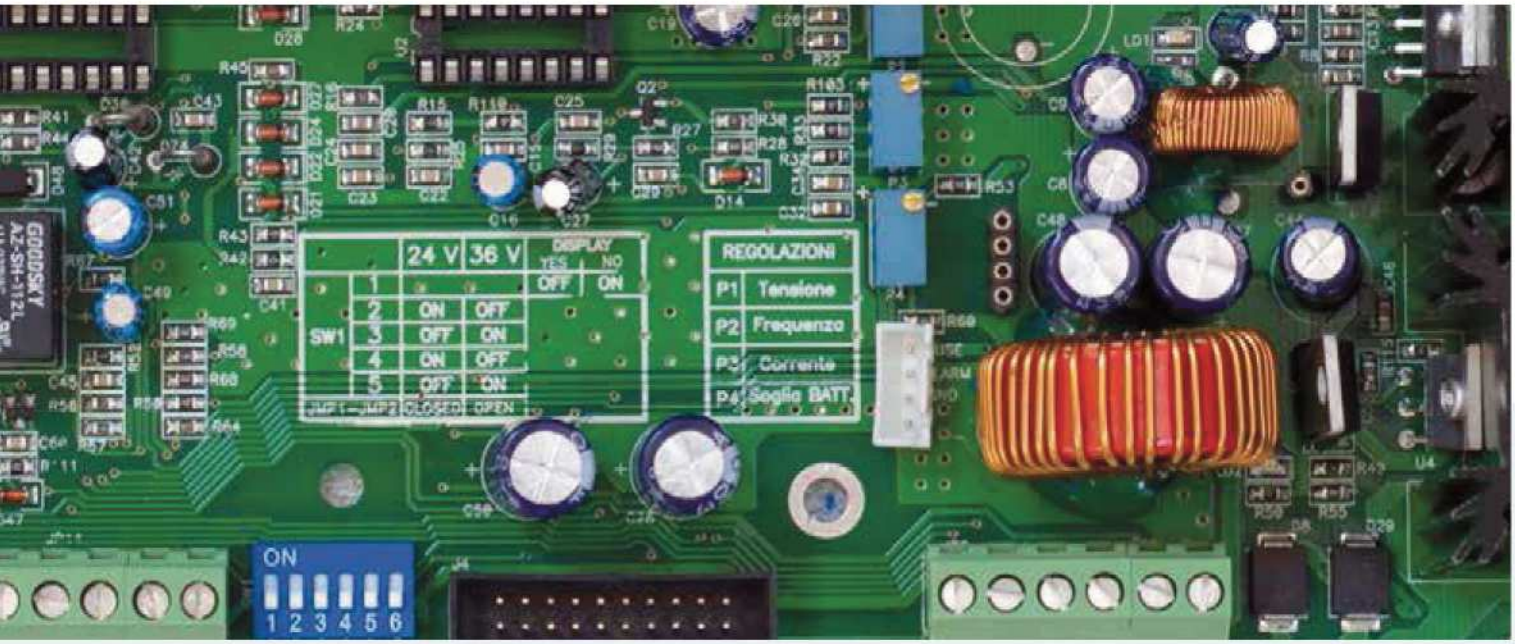


Zelena

Wind green energy



ENERBOX
ENERBOX



OPĆENITO
ENERBOX je naponski konverter koji pretvara baterije niskog napona u 230 V.

PRIMJENE
Projektiran je za monofazne (230V) primjene. Upotreba u kućanstvima, gospodarstvima i industriji za pogon elektromotora, pumpi, rasvjete i ventilacije.

FUNKCIONIRANJE
U slučaju privremenog zamračenja (nestanka struje u mreži) ENERBOX pruža korisniku napajanje s promjenjivim vremenom autonomije. To je proširiv i modularni sustav s nekoliko opcija.

ODRŽAVANJE
Visok standard komponenti čine ENERBOX oslobođenim od troškova održavanja. ENERBOX radi planirane testove na baterijama i u slučaju bilo kakvog kvara šalje SMS poruku. Moguće je postaviti i poruku "potrebno izvanredno održavanje".

ZASLON
Ako je uključen, "*wide-size*" displej, višejezični izbornik i niz upozoravajućih svjetala na prednjoj ploči, stalno daju postavljenu točku sustava.

AUTOMATSKO TESTIRANJE
ENERBOX automatski testira efikasnost punjenja. Moguće je podesiti vrijeme i period testiranja (automatski test je moguć samo s direktnom vezom korisnika/punjenja na ENERBOX). Automatski test je dostupan samo za neke tipove uređaja.

AUTONOMIJA
Za zadržavanje i povećavanje efikasnosti baterije, ENERBOX, u slučaju zamračenja, održava zaslon u *stand-by* točki sve do intervencije korisnika.

INTEGRIRANI UPRAVLJAČKI UREĐAJ
ENERBOX je dostupan s integriranom tiskanom pločicom za upravljanje i zaštitu 2 pumpe, s izmjenjivačem redoslijeda pokretanja pumpi.

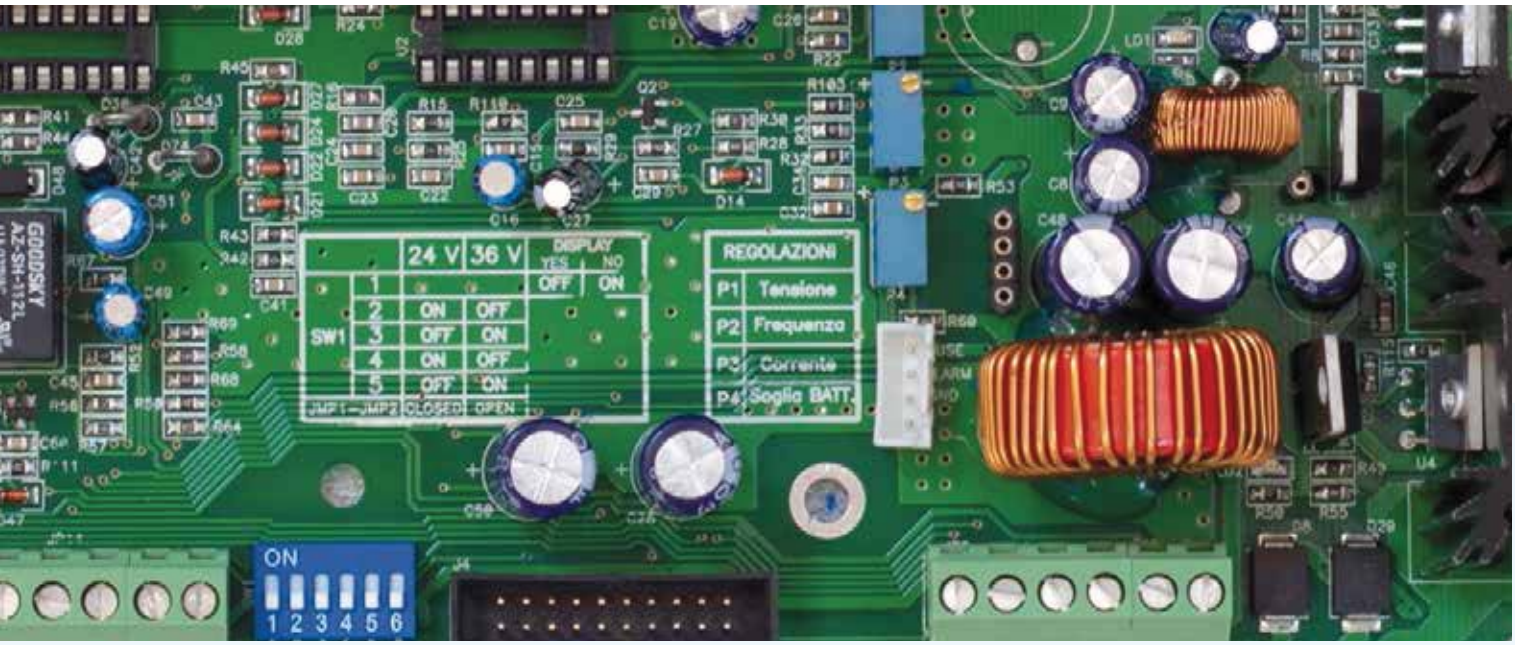
UPOZORENJE
Zahvaljujući integriranom GSM-u, u slučaju kvara mreže ili zamračenja ENERBOX šalje SMS poruku (moguće je do 6 primatelja).

ZELENA ENERGIJA
Baterije mogu biti isporučene i punjene iz obnovljivih izvora energije kao što su fotonaponski paneli ili vjetroturbine, također. ENERBOX u samostojećoj izvedbi je podesan za udaljene lokacije bez ikakve postojeće energetske mreže.

STABILIZIRANI VAL
Na zahtjev je moguće stabilizirati izlazni naponski val, gotovo sinusoidalno.

METALNA KUTIJA
Pametno i inovativno dizajnirana kutija, čvrste izrade i "powder-coated" vanjske zaštite. Visoka toplinska i mehanička zaštita, uz dobro odvođenje topline.

ENERBOX
ENERBOX



ABOUT IT
It is a tension converter that, convert the batteries low tension in 230V alternating single phase stabilized tension. With main electric line supply, batteries are automatically charged.

APPLICATIONS
Projected for single phase (230V) applications. For domestic and industrial use to supply electric motors, pumps, lights and ventilations.

FUNCTIONING
In case of temporary black out Enerbox supply the user/charge with a variable time autonomy. It is an expandable and modular system with several optionals.

MAINTENANCE
The high standard of the components make Enerbox a free-maintenance system. Enerbox makes a planned test on the batteries and in case of any failure send an SMS. It is possible to set a "periodic maintenance necessary" message.

DISPLAY
If included, the wide size display, the multilanguage menu and a series of warning lights on the frontal panels, constantly give the set point of the system.

AUTOMATIC TEST
Enerbox automatically test the charge efficiency. It is possible to set the test time and period (the automatic test is available only with direct connection of the user/charge to the Enerbox). Automatic test is available only for some Enerbox typology.

AUTONOMY
To preserve and increase the batteries efficiency, Enerbox, in case of black out, keeps the display in stand-by point until the final user intervention.

INTEGRATED CONTROL PANEL
Enerbox is available with integrated switch board for managing and protection of 2 pumps, with starting pump's exchanger.

WARNING
Thanks to the integrated GSM, in case of failure or black out, Enerbox send an SMS (until 6 different recipient).

GREEN ENERGY
Batteries can be supplied and charged by renewable energy sources as photovoltaic panels or wind turbines, too. The Enerbox in stand-alone application is suitable for remote locations without any energetic network.

STABILIZATED WAVE
On request it is possible to stabilize the output tension wave, with almost sinusoidal wave.

METAL BOX
Smart and innovative designed box, powder printed in thought cover. High thermal protection with a good temperature dissipation.

INTEGRIRANI UPRAVLJAČKI PANELI
INTEGRATED CONTROL PANELS



ECOBOX
Najmanji u ponudi. Upravljački panel s integriranim tasterom za "test punjenja" i svjetlima upozorenja. Zaslon, GSM i automatski test punjenja nisu dostupni za ovu verziju. Raspon do 600 VA.

ECOBOX
The smaller. Control panel with "charge test" push button integrated and event warning lights. Display, GSM and charge automatic test are not available for this version. Range until 600 VA.



ENERBOX STANDARD VERZIJA
Upravljački panel sa zaslonom za korisničko upravljanje i punjenje. Uključeni su automatsko tjedno testiranje rada i punjenja, te GSM. GSM poruke: "napajanje off", "napajanje on", "kvar sustava", "sustav je obnovljen" (poruka/alarm "kvar sustava" je vremenski podesiv podsjetnik za predviđeno održavanje baterija). Raspon od 900 do 5100 VA.

ENERBOX STANDARD VERSION
Displayed control panel for user/charge management. Automatic weekly user/charge test and GSM are included. GSM messages:" main power off"; "main power on", "system failure", "system restored" (the "failure system" message/alarm is a time settable reminder for batteries scheduled maintenance). Range from 900 to 5100 KVA.



ENERBOX S UPRAVLJAČKIM PANELOM ZA 2 PUMPE
Upravljački panel sa zaslonom za 2 pumpe s integriranim sustavom za izmjenično pokretanje pumpi (automatski test nije uključen). Integrirani GSM za slanje poruka kao: "napajanje off", "napajanje on", "kvar sustava", "sustav je obnovljen" (poruka/alarm "kvar sustava" je vremenski podesiv podsjetnik za predviđeno održavanje baterija). Moguć je daljinski signal (uz izborni Kit UNI11292): "pumpa 1 u radu, "pumpa 2 u radu", "kvar pumpe".
Raspon od 900 do 5100 VA.

ENERBOX WITH 2 PUMPS CONTROL PANEL
Displayed control panel for 2 pumps with pump alternation system integrated (automatic test is not included). Integrated GSM for sending messages as:" main power off"; "main power on", "system failure", "system restored" (the "failure system" message/alarm is a time settable reminder for batteries and pumps scheduled maintenance). Remote signal are available (with optional Kit UNI11292): "pump 1 in function" "pump 2 in function" "pumps failure" . Range from 900 to 5100 KVA.

PRIKAZI ZASLONA ENERBOX
ENERBOX DISPLAY VISUALIZATION

Dostupni jezici: **talijanski, engleski, španjolski i francuski**
Available languages: ***Italian, English, Spanish and French***

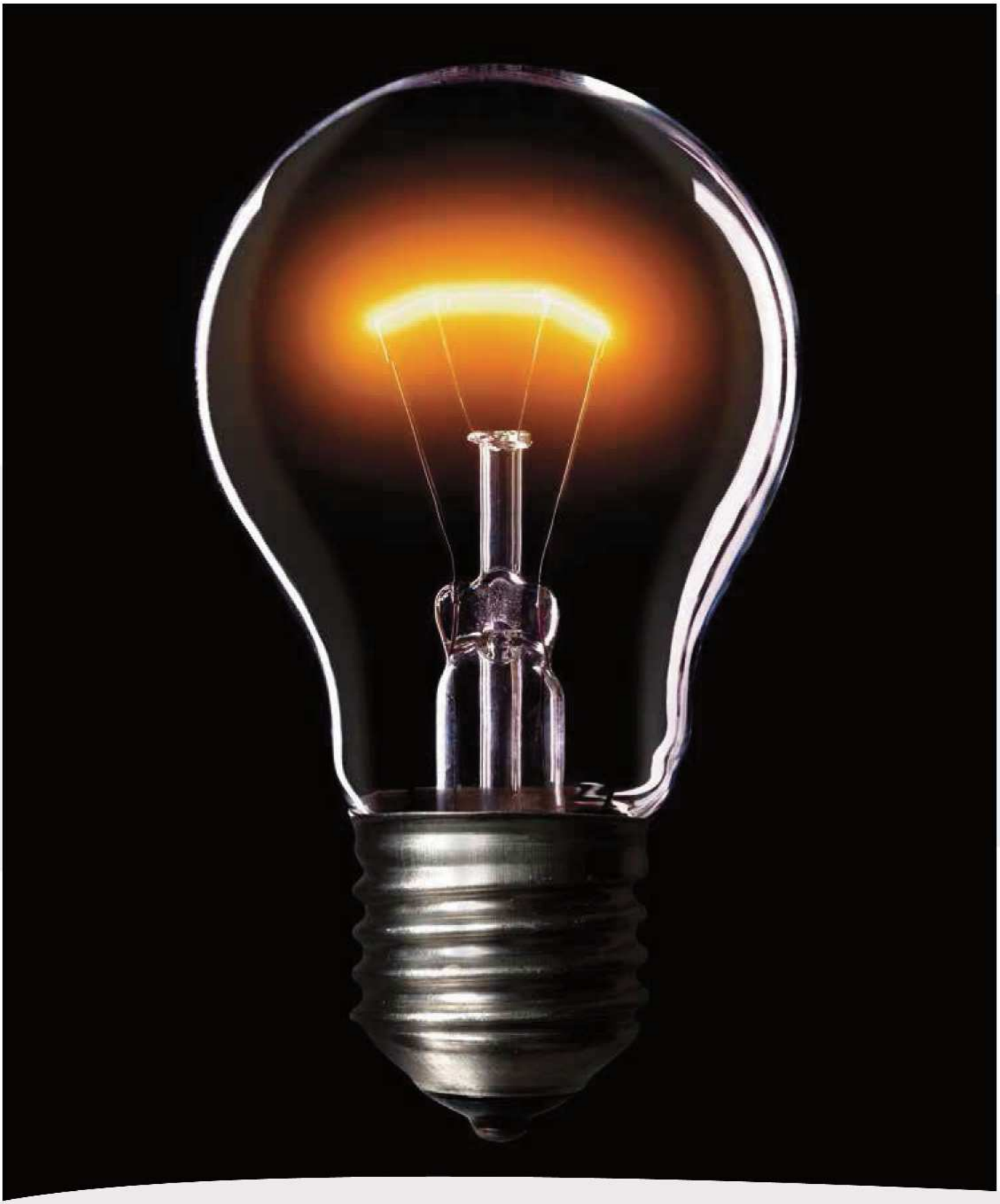
Veliki zaslon dozvoljava vidljivost i praćenje sve programirajućih parametara.
The large display allows you to view and monitor all programming parameters



Pregled događaja
- Značajke modela;
- Izlazni napon (Vr-Vi), struja (Ic), snaga (W), napon baterije (Vb);
- Unos sigurnosnih postavki;
- Ukupno vrijeme rada s inverterom napajanim s mrežom;
- Ukupno vrijeme rada s inverterom napajanim s baterijom;
- Broj intervencija s glavnim napajanjem;
- Broj intervencija s napajanjem baterijama;
- Alarm za "izvan punjenja";
- Alarm za "prekomjerno punjenje";
- Alarm visoke temperature;
- Postavke vremena i trajanja automatskog testiranja pumpe;
- Postavljanje razdoblja redovnog održavanja.

Events view
- *Datasheet model;*
- *Output voltage (Vr-Vi), Current (Ic), Power (W), Batteries voltage (Vb);*
- *Load protection set-up;*
- *Total time of operation with inverter supplied by the main;*
- *Total time of operation with inverter supplied by the batteries;*
- *Number of interventions with main supply;*
- *Number of interventions with batteries supply;*
- *Alarm for off load;*
- *Alarm for excessive load;*
- *Alarm high temperature;*
- *Setting of times and lasting of automatic test of the pump;*
- *Setting the period of scheduled maintenance.*

ENERBOX - SUSTAV PROTIV ZAMRAČENJA (*Anti-Blackout*)
ENERBOX - THE ANTI BLACK-OUT SYSTEM



ENERBOX - FUNKCIONALNA SHEMA I PRIMJENE
APPLICATIONS

MOGUĆE NAPAJANJE
FEEDING AVAILABLE



ENERBOX



TIPIČNA PRIMJENA
TYPICAL APLICATION

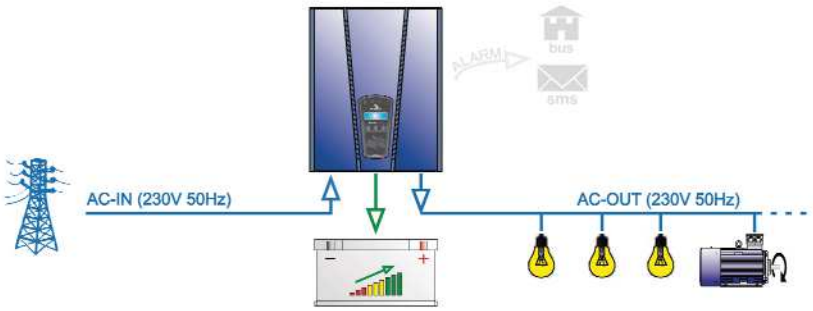


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ENERBOX - JEDNOSTAVNI PRINCIP RADA
OPERATING SYSTEM

U prisutnosti napona mreže, Enerbox akumulira energiju u baterije, nalazi se u stand-by poziciji, a trošila se napajaju ravno iz mreže...

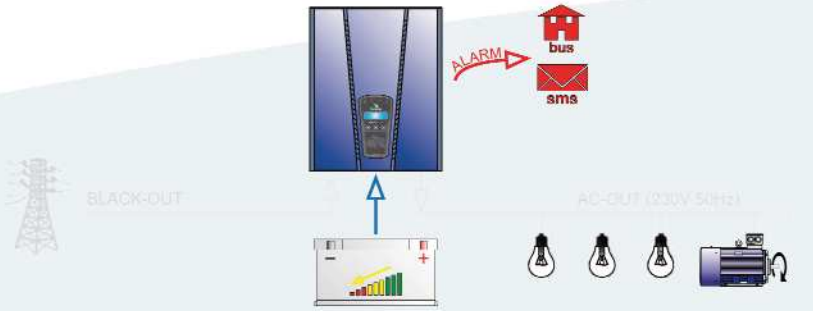
If the user/charge is supplied by the main electricity network, Enerbox is in stand-by position and just charge the batteries...



1

...u slučaju privremenog zamračenja (ispadanja iz mreže) Enerbox vam šalje alarm SMS poruku (ili kroz domotic / BUS sustav)...

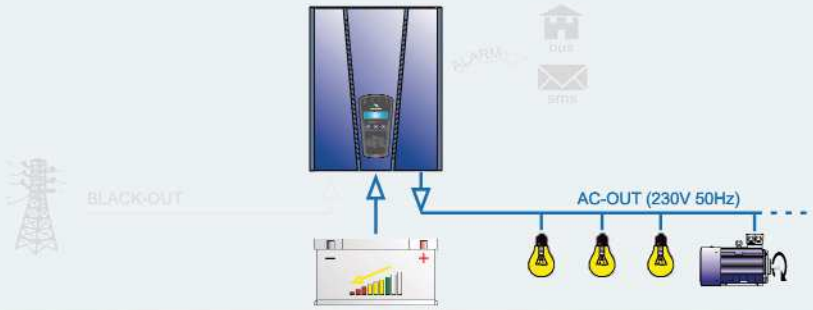
...in case of temporary black out Enerbox send you an alert SMS/message (or through the domotic/BUS system)...



2

...nakon 3-4 sekunde Enerbox preuzima napajanje trošila konvertirajući energiju akumuliranu u baterijama u 230V monofazni napon...

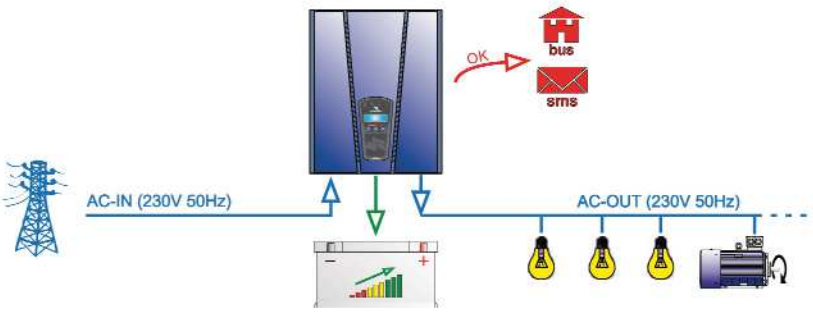
...after 3-4 seconds Enerbox supply the user/charge converting the batteries stored energy in 230 V single phase tension...



3

...kada se ponovno uspostavi električna mreža, Enerbox vas informira sa SMS porukom (ili kroz BUS/domestic sustav). Unutar 3-4 sekunde napajanje iz mreže se uspostavlja, Enerbox se vraća u stand-by mod i puni svoje baterije...

...when the main electricity network is restored, Enerbox inform you by SMS/message (or with BUS/domotic system). Within 3-4 seconds the user/charge is restored and the Enerbox batteries starts re-charging.

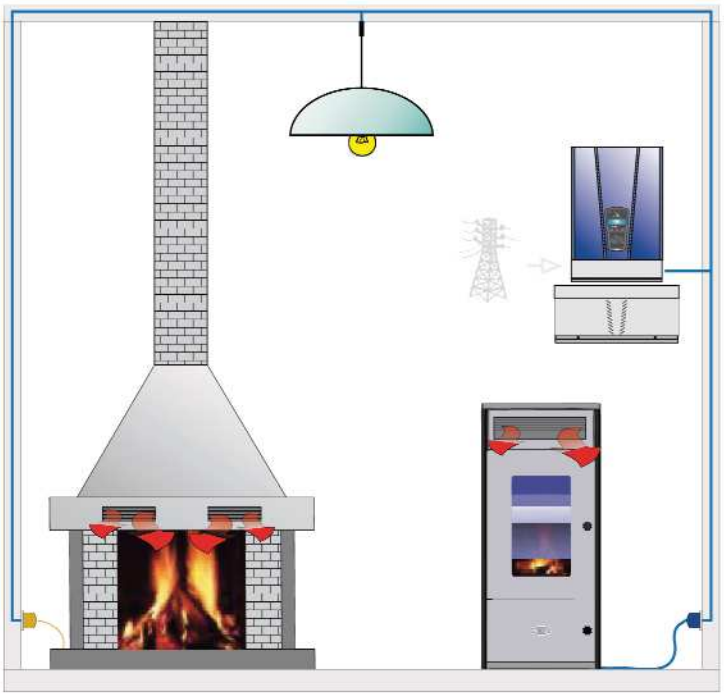


4

NEKE PRIMJENE U KUĆANSTVU
SOME DOMESTIC APPLICATIONS

Enerbox i **Ecobox** su pogodni za napajanje električnih trošila kao na slici dolje. Kućanstvo i dalje ima napajanje svih potrebnih trošila kroz standardno izvedenu instalaciju.
***Enerbox** and **Ecobox** are a good solution as supplier of electric charge. Please watch at some example in the below images. A house electric line dedicated to the system is necessary.*

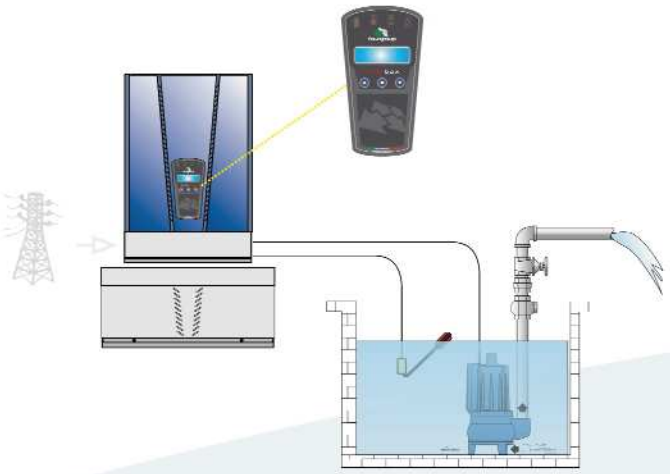




Primjeri primjene: rasvjeta, ventilacija, alati, električna ventilacija ložišta peći, ventilacija grijača, TV, radio prijemnici, ...
Neka trošila mogu trebati "wave filter" na zahtjev.
***Application example:** lights, ventilation, tools, electric ventilation fireplace, thermo fire place, television, radio…*
Some charges could need a "wave filter" on request.

NEKE PRIMJENE S PUMPAMA
SOME APPLICATIONS WITH PUMPS

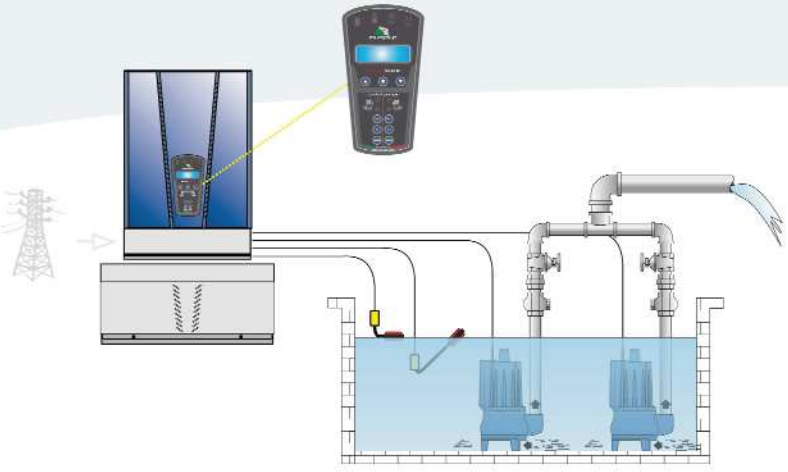
Enerbox s **CLEAN1** standardnim panelom (uključen) - za 1 drenažnu pumpu
Enerbox with CLEAN1 standard panel (included)– for 1 drainage pump



Za 1 drenažnu pumpu za čistu vodu s odvojenim plovak prekidačem.
Automatski test pumpe je uključen u konfiguraciju i podesiv na zaslonu.

For 1 clean water drainage pump with separate float switch.
Automatic pump test is included and settable on the display

Enerbox s **CLEAN2** panelom (na zahtjev) - za 2 drenažne pumpe
Enerbox with CLEAN2 panel (on request) – for 2 drainage pumps

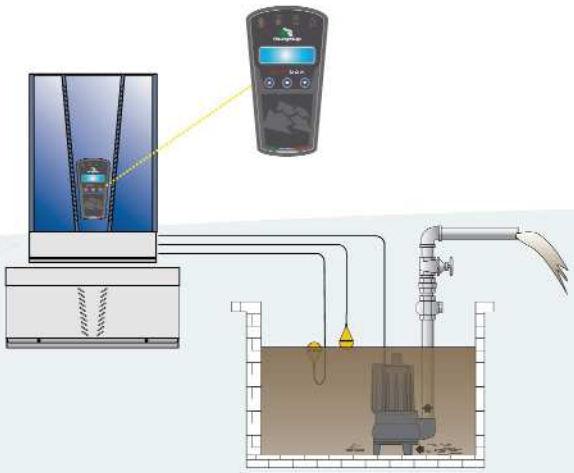


Za 2 drenažne pumpe za čistu vodu s odvojenim plovak prekidačima.
Integriran je izmjenični redoslijed uključivanja pumpi.
Automatski test pumpe na zahtjev.

For 2 clean water drainage pumps with separate float switches.
Pumps alternation integrated.
Automatic pump's test on request.

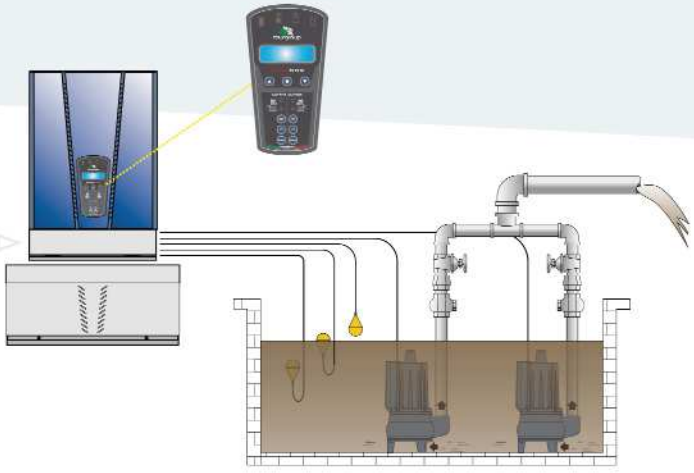
NEKE PRIMJENE S PUMPAMA
SOME APPLICATIONS WITH PUMPS

Enerbox s DARK1 panelom (na zahtjev) - za 1 drenažnu pumpu, primjena za otpadne vode
Enerbox with DARK1 panel (on request) – for 1 drainage pump, waste water application



Za 1 pumpu za otpadnu vodu s višekontaktnim plovak prekidačima.
Automatski test pumpe je uključen u konfiguraciju i podesiv na zaslonu.
For 1 sewage pump with multicontact float switches.
Automatic pump test is included and settable by display.

Enerbox s DARK2 panelom (na zahtjev) - za 2 drenažne pumpe, primjena za otpadne vode
Enerbox with DARK2 panel (on request) – for 2 drainage pumps, waste water application

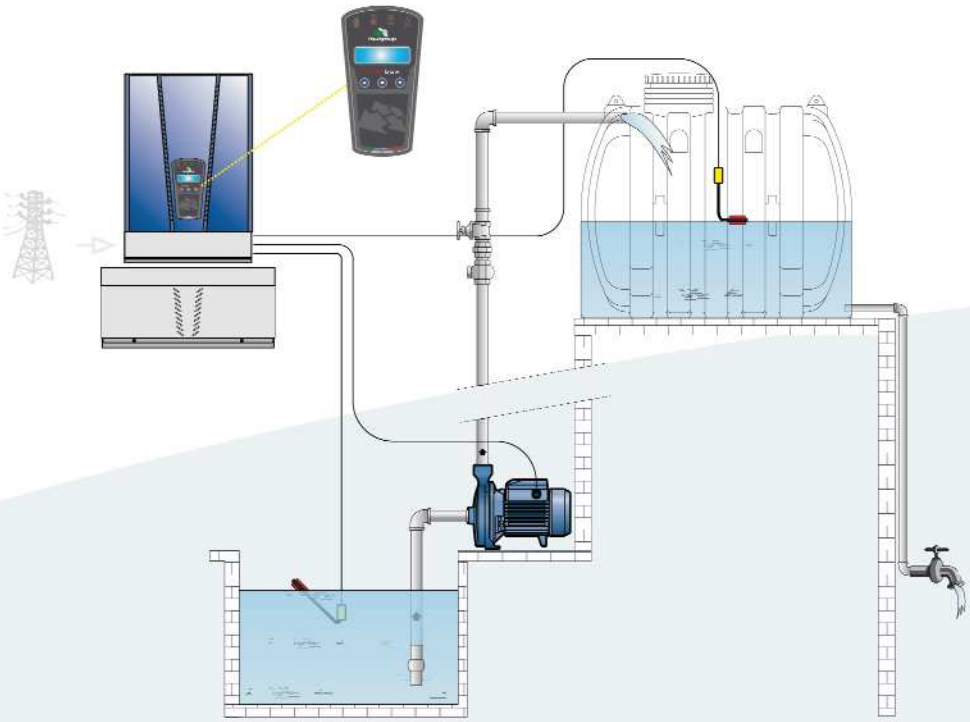


Za 2 pumpe za otpadnu vodu s višekontaktnim plovak prekidačima.
Integriran je izmjenični redoslijed uključivanja pumpi.
Automatski test pumpe na zahtjev.
For 2 sewage pumps with multicontact float switches.
Pumps alternation integrated.
Automatic pump's test on request.

NEKE PRIMJENE S PUMPAMA
SOME APPLICATIONS WITH PUMPS

Enerbox s TANK panelom (na zahtjev) - za 1 površinsku pumpu, sa zaštitom od rada nasuho (pražnjenje-punjenje spremnika)

Enerbox with TANK panel (on request) – for 1 surface pump, with dry running protection (emptying-filling tanks)

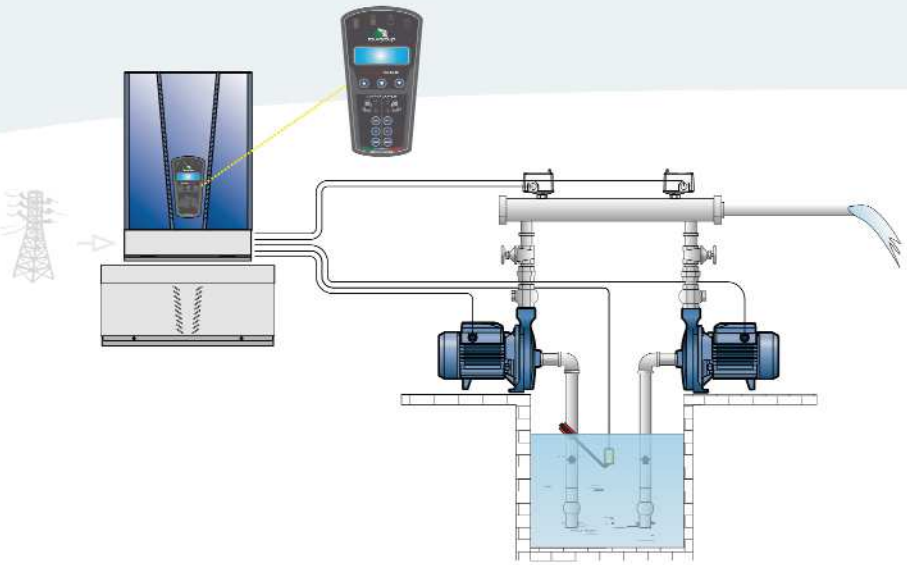


Za 1 površinsku pumpu s tlačnom sklopkom ili plovak prekidačem.
Zaštita od rada na suho s plovak prekidačem ili tlačnom sklopkom minimalnog nivoa.
Automatski test pumpe je uključen u konfiguraciju i podesiv na zaslonu.

For 1 surface pump with pressure switch or float switch.
Dry running protection with float switch or minimum level pressure switch.
Automatic pump test is included and settable by display.

Enerbox s BOOSTER panelom (na zahtjev) - za booster set s2 pumpe, uz zaštitu od rada na suho

Enerbox with BOOSTER panel (on request) – for a 2 pumps booster set, with dry running protection

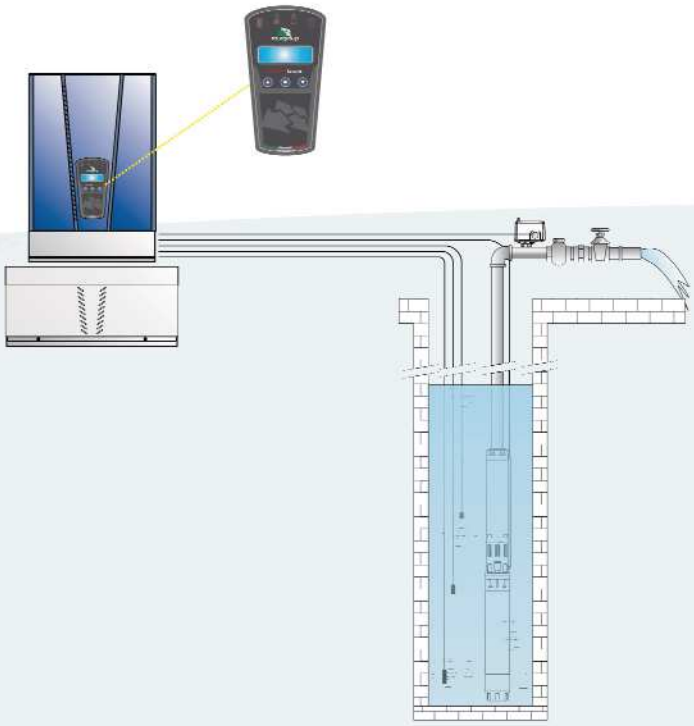


Za 2 pumpe u booster setu s tlačnim sklopkama.
Zaštitaod rada na suho s plovak prekidačima / tlačnim sklopkama minimalnog nivoa.
Integriran je izmjenični redoslijed uključivanja pumpi.
Automatski test pumpe na zahtjev.

For a 2 pumps booster sets with pressure switches.
Running dry protection with float switches/minimum level pressure switches.
Integrated pump's exchanger.
Automatic pump's test on request.

NEKE PRIMJENE S PUMPAMA
SOME APPLICATIONS WITH PUMPS

Enerbox s DEEP panelom (na zahtjev) - za 1 potopnu pumpu s nivo-sondama
Enerbox with DEEP Panel (on request) – for 1 submersible pumps with probes



Za 1 potopnu pumpu upravljanu tlačnom sklopkom.
Zaštita od rada na suho s nivo-sondama.
Automatski test pumpe je uključen u konfiguraciju i podesiv na zaslonu.

For 1 submersible pump managed by pressure switch.
Dry running protection with level probes.
Automatic pump test is included and settable by display.

PRILAGODBA PROTUPOŽARNOM STANDARDU UNI 11292
SIGURNOST PROTIV POPLAVA
SAFETY AGAINST FLOODING



TEHNIČKI PROSTORI ZA PROTUPOŽARNE SUSTAVE

ENERBOX zadovoljava propise UNI 11292: 2008 koji se odnosi na pumpe za protupožarne sustave.

Na nekim mjestima je obavezno smjestiti *anti black-out* sustav protiv zamračenja koji jamči rad pojedinih uređaja u slučaju nestanka struje (u trajanju od najmanje 30 minuta), jamči rad jedne od dvije drenažne crpke u automatskom načinu rada s protokom ne manjim od 5% od maksimalnog protoka seta crpki s minimalnim 10 m3/h.

U slučaju glavne moto-pumpe, gdje je dizajnirana, mora postojati sustav prisilne ekstrakcije (mislim na vodi) koja je zajamčena i u slučaju nestanka električne energije za razdoblje od očekivanog vremena rada protupožarnog sustava.

Za sve ove slučajeve **ENERBOX je najpouzdanije i idealno rješenje**, jer to zahtijeva malo prostora, jednostavan za instalaciju, te je ekonomičan za korištenje.

Ovakvi propisi zahtijevaju da se učinkovitost drenažne pumpe moraju pratiti signalima u zaštićenom prostoru/prostoriji i ENERBOX, ako je opremljen s upravljačkom pločom CLEAN 2 zajedno s dodatnim setom "kit UNI 11292", dopušta poslati sljedeće obvezne signale: "pumpa 1 u radu", "pumpa 2 u radu", "kvar pumpe".

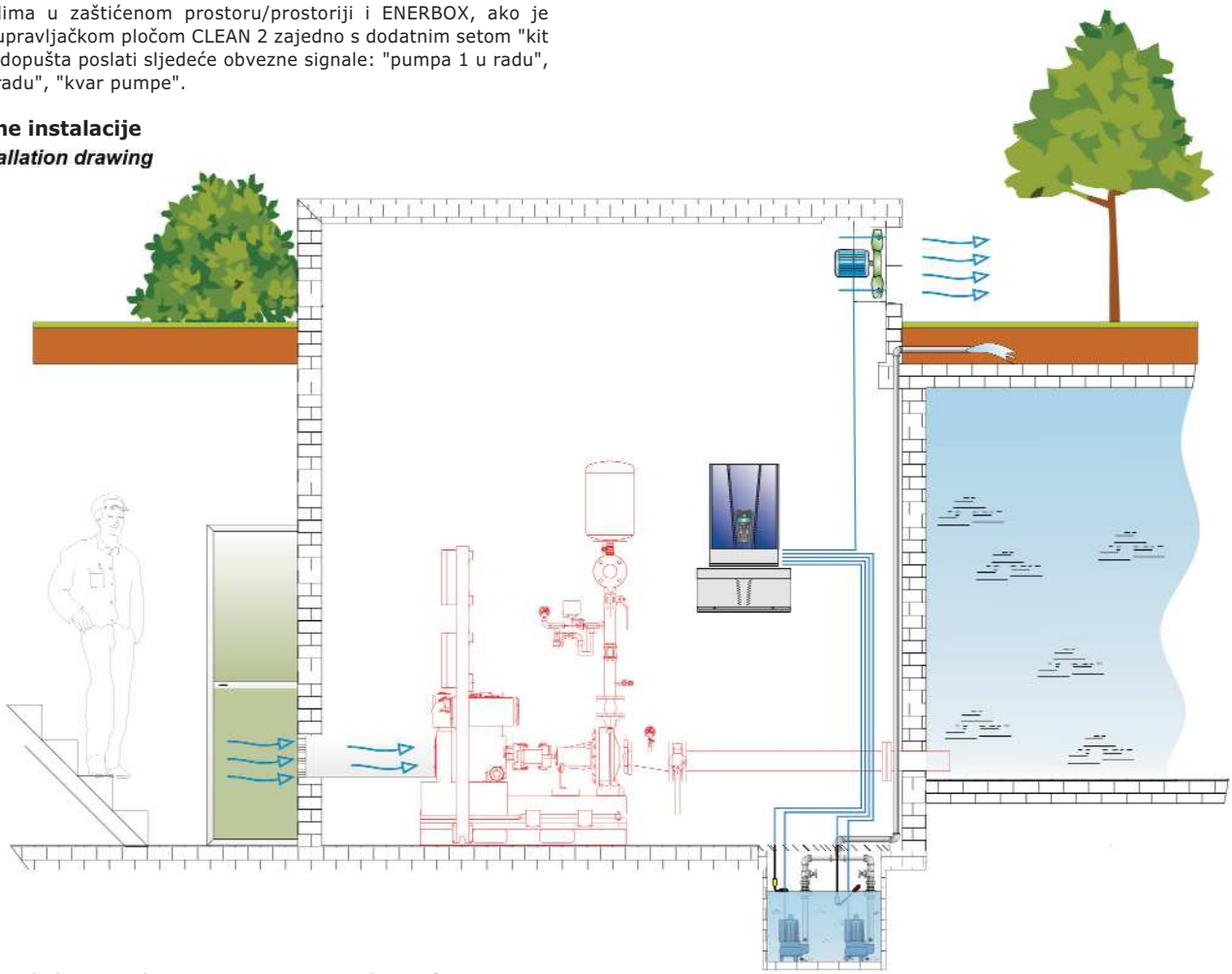
ENERBOX FOLLOWS THE STANDARD FOR SAFETY AGAINST FLOODING IN CASE OF UNDERGROUND APPLICATIONS.

The pumps efficiency is checked with segnalation in to a protect site.

Enerbox with CLEAN2 and with optional "Kit UNI11292" panel follow the standard and send the following messages: "pump 1 on" " pump 2 on" " failure pumps" .

Crtež tipične instalacije

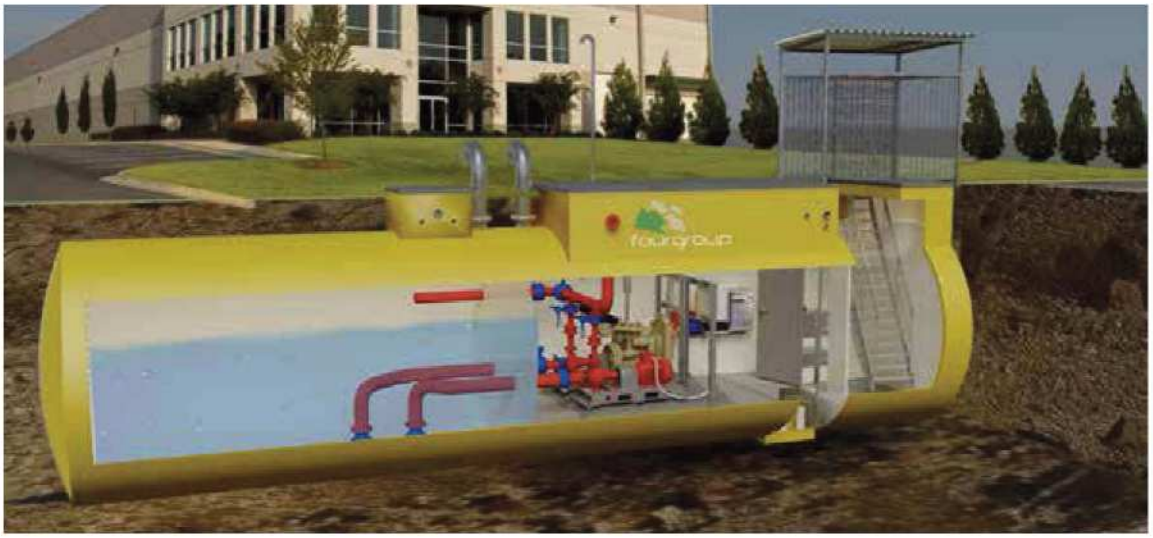
Typical installation drawing



Naš tehnički odjel na rapolaganju je za sve potrebne informacije.

Our technical department is at your disposal for any further information.

PRILAGODBA PROTUPOŽARNOM STANDARDU UNI 11292
SIGURNOST PROTIV POPLAVA
SAFETY AGAINST FLOODING







ecobox





TEHNIČKE ZNAČAJKE

- Monofazno napajanje 230V±10% 50Hz;
- Ulazni napon baterije 12Vdc;
- Izlazni monofazni napon 230V±10% 50Hz;
- Forma izlaznog vala (s radom baterija) pseudosinusoidalni;
- Efikasnost 90%;
- Automatski punjač baterije;
- Spreman za priključenje GEL baterije;
- Stop krug za prekid izlaznog napona u slučaju iscrpljenog rada baterije;
- Plavo LED svjetlo za prisutnost glavne linije;
- Plavo LED svjetlo za rad invertera (s baterijama);
- Zeleno LED svjetlo za baterije u punom kapacitetu;
- Bijelo LED svjetlo za bateriju u punjenju;
- Crveno LED svjetlo za iscrpljenu bateriju;
- Dugme za TEST opterećenja;
- Pomoćni zaštitni osigurač;
- Zaštitni osigurač punjača baterije;
- Zaštitni osigurač opterećenja;
- Zaštitni osigurač baterije;
- Zaštitni krug protiv zamjene polariteta baterije;
- Zaštita od preopterećenja;
- Zaštita od kratkog spoja;
- Zaštita od prekomjerne temperature;
- Komanda ulaznog kontakta;
- Alarm izlaza 12Vdc (max 300mA);
- Glavna sklopka za interventno isključenje;
- Višejezični priručnik za instalaciju i korištenje;
- Izlaz s držačem kabela;
- Uklonjiva vrata;
- Čelična kutija *powder-coated* zaštićena;
- Stupanj zaštite IP31;
- Temperatura -5/+40°C s relativnom vlažnosti max 50% (bez kondenzacije).

TECHNICAL FEATURES

- *Single-phase power supply 230V±10% 50Hz;*
- *Battery input voltage 12Vdc;*
- *Single-phase voltage output 230V±10% 50Hz;*
- *Output wave form (with batteries operation) pseudosinusoidal;*
- *Efficiency 90%;*
- *Automatic battery charger;*
- *Ready for connection of GEL battery;*
- *Stop circuit to interrupt the voltage output in case of exhausted battery (with battery operation);*
- *Blue led light for main line presence*
- *Blue led light for inverter operating (with batteries);*
- *Green led light for batteries in trickle charge;*
- *White led light for batteries in charge;*
- *Red led light for battery exhausted;*
- *Button load TEST;*
- *Auxiliary protection fuse;*
- *Battery charger protection fuse;*
- *Load protection fuse;*
- *Batteries protection fuse;*
- *Protection circuit from inversion of batteries polarity;*
- *Overload protection;*
- *Short-circuit protection;*
- *Overtemperature protection;*
- *Contact input command;*
- *Alarm output 12Vdc (max 300mA);*
- *Main switch for emergency shutdown;*
- *Multilingual Installation and use manual;*
- *Output with cable holder;*
- *Removable door;*
- *Steel box painted with powder;*
- *Protection degree IP 31;*
- *Temperature -5/+40°C with relative humidity max 50% (not condensing)*

Indikativna slika, poklopac kabela opcionalno /
Sample picture, cable cover is an optional

ecobox 600



370W
2,1 A
600VA

ECOBOX 600 solo macchina / *without batteries*

Codice *Code*	Modello *Model*	Potenza massima motore *Maximum engine power*	Corrente massima *Maximum current*	Potenza massima *Maximum power*	Kg *Kg*
098.00	**ECOBOX 600**	370 W	2,1 A	600 VA	15

ECOBOX 600 con kit batterie da trazione / *with traction batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Kg *Kg*
098.01	**ECOBOX 600.1**	1 h	1x50 Ah	28
098.02	**ECOBOX 600.2**	1 h 30 min	1x60 Ah	30
098.03	**ECOBOX 600.3**	2 h	1x80 Ah	32

ECOBOX 600 con kit batterie sigillate / *with sealed batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Kg *Kg*
099.01	**ECOBOX 600.1 SG**	1 h	1x54 Ah	28
099.02	**ECOBOX 600.2 SG**	1 h 30 min	1x64 Ah	30
099.03	**ECOBOX 600.3 SG**	2 h	1x80 Ah	32

ECOBOX 600 con kit batterie ermetiche al gel / *with sealed gel batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Kg *Kg*
099.04	**ECOBOX 600.1 GL**	2 h 30 min	1x94 Ah	48

Immagine indicativa, zoccolo optional / *Sample picture, cable cover is an optional*
Ingombri di installazione a pag. 39 / *Overall dimensions on page 39*

enerbox



Standardni upravljački panel
Standard control panel



Upravljački panel za 2 pumpe (opcija)
Control panel for 2 pumps (optional)



TEHNIČKE ZNAČAJKE

- Monofazno napajanje 230V±10% 50Hz;
- Ulazni napon baterije 24Vdc ili 36Vdc (ovisno o modelu);
- Izlazni monofazni napon 230V±10% 50Hz;
- Forma izlaznog vala (s radom baterija) pseudosinusoidalni;
- Efikasnost 95%;
- Automatski punjač baterije;
- Spreman za priključenje GEL baterije;
- Stop krug za prekid izlaznog napona u slučaju iscrpljenog rada baterije;
- Višefunkcijski, višejezični ekran s pozadinskim osvjetljenjem;
- Plavo LED svjetlo za rad invertera (s baterijama);
- Zeleno LED svjetlo za baterije u punom kapacitetu;
- Bijelo LED svjetlo za bateriju u punjenju;
- Žuto LED svjetlo za neispravnu bateriju;
- Crveno LED svjetlo za iscrpljenu bateriju;
- Interni brojač sati rada;
- Zvučni alarm sa zujalicom;
- Interni brojač pokretanja;
- Pomoćni zaštitni osigurač;
- Zaštitni osigurač punjača baterije;
- Zaštitni osigurač opterećenja;
- Zaštitni osigurač baterije;
- Zaštitni krug protiv zamjene polariteta baterije;
- Zaštita od preopterećenja;
- Zaštita od kratkog spoja;
- Zaštita od prekomjerne temperature;
- Izvještavanje o neintervenciji opterećenja;
- Izvještavanje o redovnom održavanju;
- Automatski TEST opterećenja namješten na ekranu;
- Komanda ulaznog kontakta;
- Alarm ulaznog kontakta;
- Opći alarm izlaza s izmjenom kontakta(max 50V-3A);
- Opći alarm izlaza 12Vdc (max 1A);
- Pripremljen za spoj kapacitivne kontrole razine;
- Integriran četverojezgreni GSM;
- Izlazno napajanje 5/12Vdc (max 1A) za vanjski GSM modul;
- Priprema za umetanje unutrašnje kontrole za više pumpi;
- Priprema za umetanje modula za domotic/BUS sustav;
- Priprema za umetanje kontrolera fotonaponskog ili vjetroturbinskog punjenja;
- Rashladni ventilator;
- Glavna sklopka za interventno isključenje;
- Priprema za priključenje vanjskog uređaja za interventno oslobađanje;
- Višejezični priručnik za instalaciju i korištenje;
- Izlaz s držačem kabela;
- Uklonjiva vrata;
- Čelična kutija *powder-coated* zaštićena;
- Stupanj zaštite IP31;
- Temperatura -5/+40°C s relativnom vlažnosti max 50% (bez kondenzacije).

TECHNICAL FEATURES

- *Single-phase power supply 230V±10% 50Hz;*
- *Batteries input voltage 24Vdc or 36Vdc (depending on the model);*
- *Single-phase voltage output 230V±10% 50Hz;*
- *Output wave form (with batteries operation) pseudosinusoidal;*
- *Efficiency 95%;*
- *Automatic battery charger;*
- *Ready for connection of GEL batteries;*
- *Stop circuit to interrupt the voltage output in case of exhausted battery (with battery operation);*
- *Multifunction, multilingual backlit display;*
- *Blue led for inverter operating (with batteries);*
- *Green led for batteries in trickle charge;*
- *White led for batteries in charge;*
- *Yellow led for faulty batteries*
- *Red led for batteries exhausted*
- *Internal hourmeter;*
- *Sounder alarm with buzzer;*
- *Internal startmeter;*
- *Auxiliary protection fuse;*
- *Battery charger protection fuse;*
- *Load protection fuse;*
- *Batteries protection fuse;*
- *Protection circuit from inversion of batteries polarity;*
- *Overload protection;*
- *Short-circuit protection;*
- *Overtemperature protection;*
- *Reporting of no-intervention of the load;*
- *Reporting of scheduled maintenance;*
- *Automatic load TEST set by display;*
- *Contact input command;*
- *Alarm contact input;*
- *General alarm output with contact exchange (max 50V-3A);*
- *Alarm output for main line absence with contact exchange (max 50V-3A);*
- *General alarm output 12Vdc (max 1A);*
- *Ready for the connection of the capacitive level control;*
- *Integrated quadband GSM;*
- *Power supply output 5/12Vdc (max 1A) for external GSM module;*
- *Ready for the insertion of the internal multipumps control;*
- *Ready for the insertion of the domotic/BUS system module;*
- *Ready for the insertion of a charge controller from photovoltaic or wind system;*
- *Cooling fan;*
- *Main switch for emergency shutdown;*
- *Ready to connect an external emergency release device;*
- *Multilingual Installation and use manual;*
- *Output with cable holder;*
- *Removable door;*
- *Steel box painted with powder;*
- *Protection degree IP 31;*
- *Temperature -5/+40°C with relative humidity max 50% (not condensing)*

Indikativna slika, poklopac kabela opcionalno /
Sample picture, cable cover is an optional

enerbox 900



450W
3,1 A
900VA

ENERBOX 900 solo macchina / *without batteries*

Codice *Code*	Modello *Model*	Potenza massima motore *Maximum engine power*	Corrente massima *Maximum current*	Potenza massima *Maximum power*	Kg *Kg*
098.10	**ENERBOX 900**	450 W	3,1 A	900 VA	19

ENERBOX 900 con kit batterie da trazione / *with traction batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Supporti *Holder*	Cavi *Cables*	Kg *Kg*
098.11	**ENERBOX 900.1**	1 h	2x50 Ah	1	1xPB1	51
098.12	**ENERBOX 900.2**	2 h	2x80 Ah	1	1xPB1	55
098.13	**ENERBOX 900.3**	3 h	2x100 Ah	1	1xPB1	75
098.14	**ENERBOX 900.4**	4 h	2x160 Ah	2	1xPB1	118

ENERBOX 900 con kit batterie sigillate / *with sealed batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Supporti *Holder*	Cavi *Cables*	Kg *Kg*
099.11	**ENERBOX 900.1 SG**	1 h	2x54 Ah	1	1xPB1	51
099.12	**ENERBOX 900.2 SG**	2 h	2x80 Ah	1	1xPB1	55
099.13	**ENERBOX 900.3 SG**	3 h	2x100 Ah	1	1xPB1	75
099.14	**ENERBOX 900.4 SG**	4 h	4x80 Ah	2	2xPB1+2xPB2	101

ENERBOX 900 con kit batterie ermetiche al gel / *with sealed gel batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Supporti *Holder*	Cavi *Cables*	Kg *Kg*
099.15	**ENERBOX 900.1 GL**	1 h 30 min	2x65 Ah	1	1xPB1	73
099.16	**ENERBOX 900.2 GL**	2 h 30 min	2x94 Ah	1	1xPB1	91
099.17	**ENERBOX 900.3 GL**	3 h	4x65 Ah	2	2xPB1+2xPB2	129
099.18	**ENERBOX 900.4 GL**	5 h	4x94 Ah	2	2xPB1+2xPB2	165

Immagine indicativa, zoccolo optional / *Sample picture, cable cover is an optional*
Ingombri di installazione a pag. 39 / *Overall dimensions on page 39*
Per applicazioni con 2 elettropompe vedi pag. 41 / *For installations with 2 electric pumps see page 41*

enerbox 1300



600W
4,8 A
1300VA

ENERBOX 1300 solo macchina / *without batteries*

Codice *Code*	Modello *Model*	Potenza massima motore *Maximum engine power*	Corrente massima *Maximum current*	Potenza massima *Maximum power*	Kg *Kg*
098.20	**ENERBOX 1300**	600 W	4,8 A	1300 VA	20

ENERBOX 1300 con kit batterie da trazione / *with traction batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Supporti *Holder*	Cavi *Cables*	Kg *Kg*
098.21	**ENERBOX 1300.1**	1 h	2x80 Ah	1	1xPB1	60
098.22	**ENERBOX 1300.2**	2 h	2x100 Ah	1	1xPB1	76
098.23	**ENERBOX 1300.3**	3 h	2x160 Ah	2	1xPB1	119
098.24	**ENERBOX 1300.4**	4 h	4x100 Ah	2	2xPB1+2xPB2	134

ENERBOX 1300 con kit batterie sigillate / *with sealed batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Supporti *Holder*	Cavi *Cables*	Kg *Kg*
099.21	**ENERBOX 1300.1 SG**	1 h	2x80 Ah	1	1xPB1	60
099.22	**ENERBOX 1300.2 SG**	2 h	2x100 Ah	1	1xPB1	76
099.23	**ENERBOX 1300.3 SG**	3 h	4x80 Ah	2	2xPB1+2xPB2	102
099.24	**ENERBOX 1300.4 SG**	4 h	4x100 Ah	2	2xPB1+2xPB2	134

ENERBOX 1300 con kit batterie ermetiche al gel / *with sealed gel batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Supporti *Holder*	Cavi *Cables*	Kg *Kg*
099.25	**ENERBOX 1300.1 GL**	1 h	2x65 Ah	1	1xPB1	74
099.26	**ENERBOX 1300.2 GL**	2 h	2x94 Ah	1	1xPB1	92
099.27	**ENERBOX 1300.3 GL**	2 h 30 min	4x65 Ah	2	2xPB1+2xPB2	130
099.28	**ENERBOX 1300.4 GL**	4 h	4x94 Ah	2	2xPB1+2xPB2	166

Immagine indicativa, zoccolo optional / *Sample picture, cable cover is an optional*
Ingombri di installazione a pag. 39 / *Overall dimensions on page 39*
Per applicazioni con 2 elettropompe vedi pag. 41 / *For installations with 2 electric pumps see page 41*

enerbox 1700



750W
6,1 A
1700VA

ENERBOX 1700 solo macchina / *without batteries*

Codice *Code*	Modello *Model*	Potenza massima motore *Maximum engine power*	Corrente massima *Maximum current*	Potenza massima *Maximum power*	Kg *Kg*
098.30	**ENERBOX 1700**	750 W	6,1 A	1700 VA	25

ENERBOX 1700 con kit batterie da trazione / *with traction batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Supporti *Holder*	Cavi *Cables*	Kg *Kg*
098.31	**ENERBOX 1700.1**	1 h	2x100 Ah	1	1xPB1	81
098.32	**ENERBOX 1700.2**	2 h	2x160 Ah	2	1xPB1	124
098.33	**ENERBOX 1700.3**	3 h	2x180 Ah	2	1xPB1	124
098.34	**ENERBOX 1700.4**	4 h	4x160 Ah	4	2xPB1+2xPB2	225

ENERBOX 1700 con kit batterie sigillate / *with sealed batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Supporti *Holder*	Cavi *Cables*	Kg *Kg*
099.31	**ENERBOX 1700.1 SG**	1 h	2x100 Ah	1	1xPB1	81
099.32	**ENERBOX 1700.2 SG**	2 h	4x80 Ah	2	2xPB1+2xPB2	107
099.33	**ENERBOX 1700.3 SG**	3 h	4x100 Ah	2	2xPB1+2xPB2	139
099.34	**ENERBOX 1700.4 SG**	4 h	8x80 Ah	3	4xPB1+6xPB2	186

ENERBOX 1700 con kit batterie ermetiche al gel / *with sealed gel batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Supporti *Holder*	Cavi *Cables*	Kg *Kg*
099.35	**ENERBOX 1700.1 GL**	1 h	2x94 Ah	1	1xPB1	97
099.36	**ENERBOX 1700.2 GL**	2 h	4x65 Ah	2	2xPB1+2xPB2	135
099.37	**ENERBOX 1700.3 GL**	3 h	4x94 Ah	2	2xPB1+2xPB2	171
099.38	**ENERBOX 1700.4 GL**	4 h	8x65 Ah	4	4xPB1+6xPB2	247

Immagine indicativa, zoccolo optional / *Sample picture, cable cover is an optional*
Ingombri di installazione a pag. 39 / *Overall dimensions on page 39*
Per applicazioni con 2 elettropompe vedi pag. 41 / *For installations with 2 electric pumps see page 41*

enerbox 2100



1100W
7,7 A
2100VA

ENERBOX 2100 solo macchina / *without batteries*

Codice *Code*	Modello *Model*	Potenza massima motore *Maximum engine power*	Corrente massima *Maximum current*	Potenza massima *Maximum power*	Kg *Kg*
098.40	**ENERBOX 2100**	1100 W	7,7 A	2100 VA	26

ENERBOX 2100 con kit batterie da trazione / *with traction batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Supporti *Holder*	Cavi *Cables*	Kg *Kg*
098.41	**ENERBOX 2100.1**	1 h	3x80 Ah	1	2xPB1	84
098.42	**ENERBOX 2100.2**	2 h	3x160 Ah	3	2xPB1	175
098.43	**ENERBOX 2100.3**	3 h	3x180 Ah	3	2xPB1	175
098.44	**ENERBOX 2100.4**	4 h	9x100 Ah	3	6xPB1+4xPB2	276

ENERBOX 2100 con kit batterie sigillate / *with sealed batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Supporti *Holder*	Cavi *Cables*	Kg *Kg*
099.41	**ENERBOX 2100.1 SG**	1 h	3x80 Ah	1	2xPB1	84
099.42	**ENERBOX 2100.2 SG**	2 h	6x80 Ah	2	4xPB1+2xPB2	144
099.43	**ENERBOX 2100.3 SG**	3 h	6x100 Ah	2	4xPB1+2xPB2	192
099.44	**ENERBOX 2100.4 SG**	4 h	9x100 Ah	3	6xPB1+4xPB2	276

ENERBOX 2100 con kit batterie ermetiche al gel / *with sealed gel batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Supporti *Holder*	Cavi *Cables*	Kg *Kg*
099.45	**ENERBOX 2100.1 GL**	1 h 40 min	3x94 Ah	1	2xPB1	132
099.46	**ENERBOX 2100.2 GL**	2 h	6x65 Ah	2	4xPB1+2xPB2	186
099.47	**ENERBOX 2100.3 GL**	3 h	6x94 Ah	2	4xPB1+2xPB2	240
099.48	**ENERBOX 2100.4 GL**	4 h	9x94 Ah	3	6xPB1+4xPB2	348

Immagine indicativa, zoccolo optional / *Sample picture, cable cover is an optional*
Ingombri di installazione a pag. 39 / *Overall dimensions on page 39*
Per applicazioni con 2 elettropompe vedi pag. 41 / *For installations with 2 electric pumps see page 41*

enerbox 2600



1300W
9,9 A
2600VA

ENERBOX 2600 solo macchina / *without batteries*

Codice *Code*	Modello *Model*	Potenza massima motore *Maximum engine power*	Corrente massima *Maximum current*	Potenza massima *Maximum power*	Kg *Kg*
098.50	**ENERBOX 2600**	1300 W	9,9 A	2600 VA	28

ENERBOX 2600 con kit batterie da trazione / *with traction batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Supporti *Holder*	Cavi *Cables*	Kg *Kg*
098.51	**ENERBOX 2600.1**	1 h	3x80 Ah	1	2xPB1	86
098.52	**ENERBOX 2600.2**	2 h	3x160 Ah	3	2xPB1	177
098.53	**ENERBOX 2600.3**	3 h	3x180 Ah	3	2xPB1	177
098.54	**ENERBOX 2600.4**	4 h	9x100 Ah	3	6xPB1+4xPB2	278

ENERBOX 2600 con kit batterie sigillate / *with sealed batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Supporti *Holder*	Cavi *Cables*	Kg *Kg*
099.51	**ENERBOX 2600.1 SG**	1 h	3x80 Ah	1	2xPB1	86
099.52	**ENERBOX 2600.2 SG**	2 h	6x80 Ah	2	4xPB1+2xPB2	146
099.53	**ENERBOX 2600.3 SG**	3 h	6x100 Ah	2	4xPB1+2xPB2	194
099.54	**ENERBOX 2600.4 SG**	4 h	9x100 Ah	3	6xPB1+4xPB2	278

ENERBOX 2600 con kit batterie ermetiche al gel / *with sealed gel batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Supporti *Holder*	Cavi *Cables*	Kg *Kg*
099.55	**ENERBOX 2600.1 GL**	1 h 15 min	3x94 Ah	1	2xPB1	134
099.56	**ENERBOX 2600.2 GL**	2 h	6x65 Ah	2	4xPB1+2xPB2	188
099.57	**ENERBOX 2600.3 GL**	3 h	6x94 Ah	2	4xPB1+2xPB2	242
099.58	**ENERBOX 2600.4 GL**	4 h	9x94 Ah	3	6xPB1+4xPB2	350

Immagine indicativa, zoccolo optional / *Sample picture, cable cover is an optional*
Ingombri di installazione a pag. 39 / *Overall dimensions on page 39*
Per applicazioni con 2 elettropompe vedi pag. 41 / *For installations with 2 electric pumps see page 41*

enerbox 3100



1500W
11,8 A
3100VA

ENERBOX 3100 solo macchina / *without batteries*

Codice *Code*	Modello *Model*	Potenza massima motore *Maximum engine power*	Corrente massima *Maximum current*	Potenza massima *Maximum power*	Kg *Kg*
098.60	**ENERBOX 3100**	1500 W	11,8 A	3100 VA	32

ENERBOX 3100 con kit batterie da trazione / *with traction batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Supporti *Holder*	Cavi *Cables*	Kg *Kg*
098.61	**ENERBOX 3100.1**	1 h	3x100 Ah	1	2xPB1	114
098.62	**ENERBOX 3100.2**	2 h	3x180 Ah	3	2xPB1	181
098.63	**ENERBOX 3100.3**	3 h	9x100 Ah	3	6xPB1+4xPB2	282
098.64	**ENERBOX 3100.4**	4 h	6x180 Ah	6	4xPB1+2xPB2	332

ENERBOX 3100 con kit batterie sigillate / *with sealed batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Supporti *Holder*	Cavi *Cables*	Kg *Kg*
099.61	**ENERBOX 3100.1 SG**	1 h	3x100 Ah	1	2xPB1	114
099.62	**ENERBOX 3100.2 SG**	2 h	6x100 Ah	2	4xPB1+2xPB2	198
099.63	**ENERBOX 3100.3 SG**	3 h	9x100 Ah	3	6xPB1+4xPB2	282
099.64	**ENERBOX 3100.4 SG**	4 h	12x100 Ah	4	8xPB1+6xPB2	366

ENERBOX 3100 con kit batterie ermetiche al gel / *with sealed gel batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Supporti *Holder*	Cavi *Cables*	Kg *Kg*
099.65	**ENERBOX 3100.1 GL**	1 h	3x94 Ah	1	2xPB1	138
099.66	**ENERBOX 3100.2 GL**	2 h	6x94 Ah	2	4xPB1+2xPB2	246
099.67	**ENERBOX 3100.3 GL**	3 h	9x94 Ah	3	6xPB1+4xPB2	354
099.68	**ENERBOX 3100.4 GL**	4 h	12x94 Ah	4	8xPB1+6xPB2	462

Immagine indicativa, zoccolo optional / *Sample picture, cable cover is an optional*
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enerbox 4100



2000W
15,6 A
4100VA

ENERBOX 4100 solo macchina / *without batteries*

Codice *Code*	Modello *Model*	Potenza massima motore *Maximum engine power*	Corrente massima *Maximum current*	Potenza massima *Maximum power*	Kg *Kg*
098.70	**ENERBOX 4100**	2000 W	15,6 A	4100 VA	38

ENERBOX 4100 con kit batterie da trazione / *with traction batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Supporti *Holder*	Cavi *Cables*	Kg *Kg*
098.71	**ENERBOX 4100.1**	30 min	3x80 Ah	1	2xPB1	96
098.72	**ENERBOX 4100.2**	1 h	3x160 Ah	3	2xPB1	187
098.73	**ENERBOX 4100.3**	1 h 30 min	6x100 Ah	2	4xPB1+2xPB2	204
098.74	**ENERBOX 4100.4**	2 h	6x160 Ah	6	4xPB1+2xPB2	338

ENERBOX 4100 con kit batterie sigillate / *with sealed batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Supporti *Holder*	Cavi *Cables*	Kg *Kg*
099.71	**ENERBOX 4100.1 SG**	30 min	3x80 Ah	1	2xPB1	96
099.72	**ENERBOX 4100.2 SG**	1 h	6x80 Ah	2	4xPB1+2xPB2	156
099.73	**ENERBOX 4100.3 SG**	1 h 30 min	6x100 Ah	2	4xPB1+2xPB2	204
099.74	**ENERBOX 4100.4 SG**	2 h	12x80 Ah	4	8xPB1+6xPB2	276

ENERBOX 4100 con kit batterie ermetiche al gel / *with sealed gel batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Supporti *Holder*	Cavi *Cables*	Kg *Kg*
099.75	**ENERBOX 4100.1 GL**	45 min	3x94 Ah	1	2xPB1	144
099.76	**ENERBOX 4100.2 GL**	1 h	6x65 Ah	2	4xPB1+2xPB2	198
099.77	**ENERBOX 4100.3 GL**	1 h 30 min	6x94 Ah	2	4xPB1+2xPB2	252
099.78	**ENERBOX 4100.4 GL**	2 h	9x94 Ah	4	8xPB1+6xPB2	360

Immagine indicativa, zoccolo optional / *Sample picture, cable cover is an optional*
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Per applicazioni con 2 elettropompe vedi pag. 41 / *For installations with 2 electric pumps see page 41*

enerbox 5100



2300W
20 A
5100VA

ENERBOX 5100 solo macchina / *without batteries*

Codice *Code*	Modello *Model*	Potenza massima motore *Maximum engine power*	Corrente massima *Maximum current*	Potenza massima *Maximum power*	Kg *Kg*
098.80	**ENERBOX 5100**	2300 W	20 A	5100 VA	44

ENERBOX 5100 con kit batterie da trazione / *with traction batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Supporti *Holder*	Cavi *Cables*	Kg *Kg*
098.81	**ENERBOX 5100.1**	30 min	3x100 Ah	1	2xPB1	126
098.82	**ENERBOX 5100.2**	1 h	6x100 Ah	2	4xPB1+2xPB2	210
098.83	**ENERBOX 5100.3**	1 h 30 min	9x100 Ah	3	6xPB1+4xPB2	294
098.84	**ENERBOX 5100.4**	2 h	6x180 Ah	6	4xPB1+2xPB2	344

ENERBOX 5100 con kit batterie sigillate / *with sealed batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Supporti *Holder*	Cavi *Cables*	Kg *Kg*
099.81	**ENERBOX 5100.1 SG**	30 min	3x100 Ah	1	2xPB1	126
099.82	**ENERBOX 5100.2 SG**	1 h	6x100 Ah	2	4xPB1+2xPB2	210
099.83	**ENERBOX 5100.3 SG**	1 h 30 min	9x100 Ah	3	6xPB1+4xPB2	294
099.84	**ENERBOX 5100.4 SG**	2 h	12x100 Ah	4	8xPB1+6xPB2	378

ENERBOX 5100 con kit batterie ermetiche al gel / *with sealed gel batteries*

Codice *Code*	Modello *Model*	Autonomia *Endurance*	Batterie *Batteries*	Supporti *Holder*	Cavi *Cables*	Kg *Kg*
099.85	**ENERBOX 5100.1 GL**	30 min	3x94 Ah	1	2xPB1	150
099.86	**ENERBOX 5100.2 GL**	1 h	6x94 Ah	2	4xPB1+2xPB2	258
099.87	**ENERBOX 5100.3 GL**	1 h 30 min	9x94 Ah	3	6xPB1+4xPB2	366
099.88	**ENERBOX 5100.4 GL**	2 h	12x94 Ah	4	8xPB1+6xPB2	474

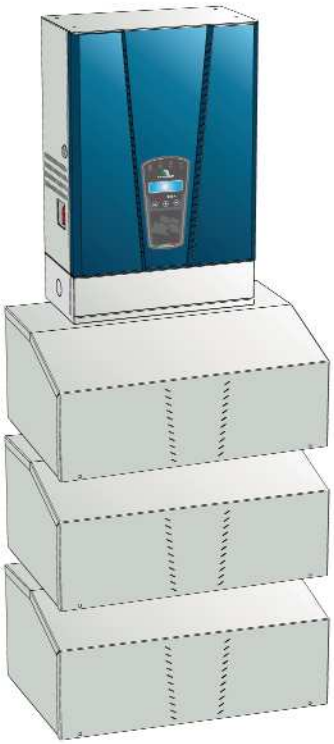
Immagine indicativa, zoccolo optional / *Sample picture, cable cover is an optional*
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DIMENZIJE
DIMENSIONS



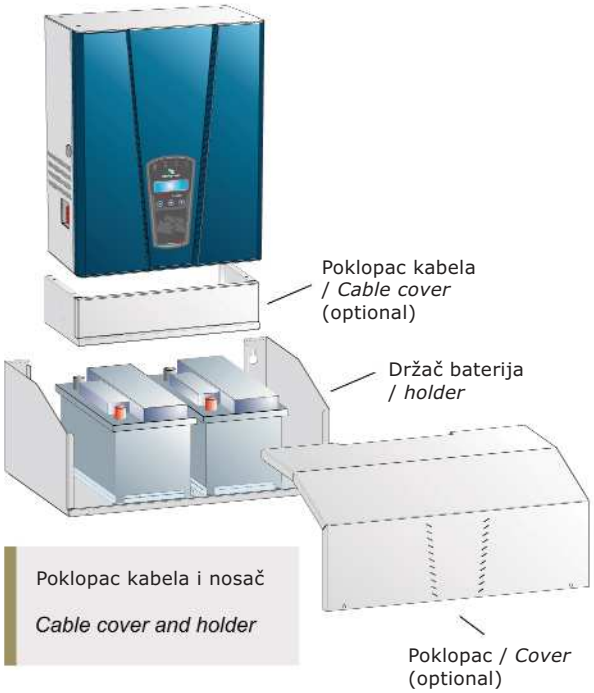
Enerbox, kompletna opcija

Enerbox full optional



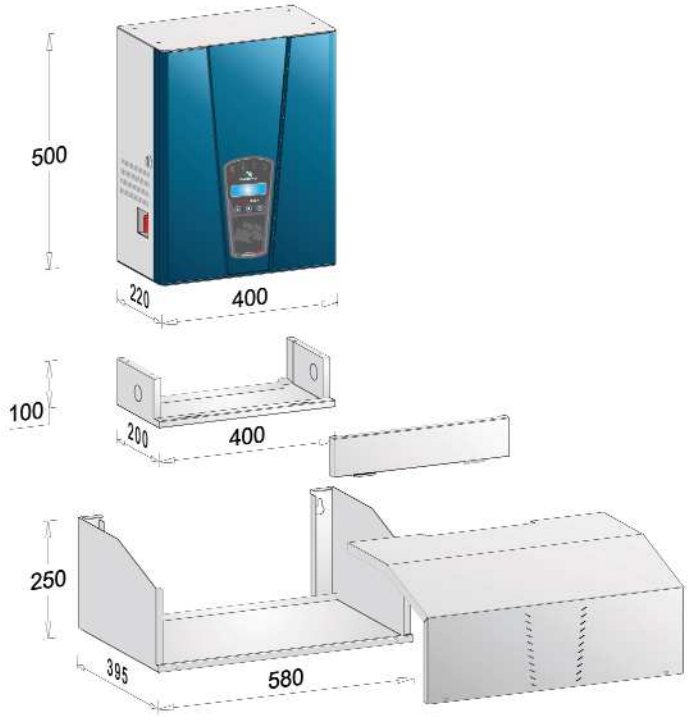
Povećana autonomija

Increased aunonomy



Poklopac kabela i nosač

Cable cover and holder



Ecobox: baterija je uključena u kutiju, za dimenzije uzmite u obzir samo plavi dio slike.

Ecobox: battery is included in the box, for dimensions consider only the blue part of the picture.

UPRAVLJAČKI PANELI ZA PUMPE
CONTROL PANELS FOR PUMPS

Uključi i koristi, laka i brza instalacija s različitom operativnom logikom
Plug and play, easy and quick installation with different operational logics



STANDARD
DARK 1
TANK 1
DEEP 1

Upravljački panel za 1 pumpu
Control panel for 1 pump



CLEAN 2
DARK 2
BOOSTER

Upravljački panel za 2 pumpe
Control panel for 2 pumps

TEHNIČKE ZNAČAJKE ZA SVE UPRAVLJAČKE PANELE ZA JEDNU PUMPU

- Monofazno napajanje 230V±10% 50Hz;
- Ulazni napon baterije 24Vdc ili 36Vdc (ovisno o modelu);
- Izlazni monofazni napon 230V±10% 50Hz;
- Forma izlaznog vala (s radom baterija) pseudosinusoidalni;
- Efikasnost 95%;
- Automatski punjač baterije;
- Spreman za priključenje GEL baterije;
- Stop krug za prekid izlaznog napona u slučaju iscrpljenog rada baterije;
- Višefunkcijski, višejezični ekran s pozadinskim osvjetljenjem;
- Plavo LED svjetlo za rad invertera (s baterijama);
- Zeleno LED svjetlo za baterije u punom kapacitetu;
- Bijelo LED svjetlo za bateriju u punjenju;
- Žuto LED svjetlo za neispravnu bateriju;
- Crveno LED svjetlo za iscrpljenu bateriju;
- Interni brojač sati rada;
- Interni brojač pokretanja;
- Pomoćni zaštitni osigurač;
- Zaštitni osigurač punjača baterije;
- Zaštitni osigurač opterećenja;
- Zaštitni osigurač baterije;
- Zaštitni krug protiv zamjene polariteta baterije;
- Zaštita od preopterećenja;
- Zaštita od kratkog spoja;
- Zaštita od prekomjerne temperature;
- Izvještavanje o neintervenciji opterećenja;
- Izvještavanje o redovnom održavanju;
- Automatski TEST opterećenja namješten na ekranu;

TECHNICAL FEATURES FOR ALL THE CONTROL PANELS FOR ONE PUMP

- *Single-phase power supply 230V±10% 50Hz;*
- *Batteries input voltage 24Vdc or 36Vdc (depending on the model);*
- *Single-phase voltage output 230V±10% 50Hz;*
- *Output wave form (with batteries operation) pseudosinusoidal;*
- *Efficiency 95%;*
- *Automatic battery charger;*
- *Ready for connection of GEL batteries;*
- *Stop circuit to interrupt the voltage output in case of exhausted battery (with battery operation);*
- *Multifunction, multilingual backlit display;*
- *Blue led for inverter operating (with batteries);*
- *Green led for batteries in trickle charge;*
- *White led for batteries in charge;*
- *Yellow led for faulty batteries*
- *Red led for batteries exhausted*
- *Internal hourmeter;*
- *Internal startmeter;*
- *Auxiliary protection fuse;*
- *Battery charger protection fuse;*
- *Load protection fuse;*
- *Batteries protection fuse;*
- *Protection circuit from inversion of batteries polarity;*
- *Overload protection;*
- *Short-circuit protection;*
- *Overtemperature protection;*
- *Reporting of no-intervention of the load;*
- *Reporting of scheduled maintenance;*
- *Automatic load TEST set by display;*

Kod *Code*	Model *Model*	Broj pumpi *Nr. of pumps*	Komanda pokretanja *Starting command*	Zaštita od rada na suho *Dry running protection*
156.01	STANDARD	1	1 plovak prekidač *1 float switch*	nije uključeno *not included*
156.03	DARK 1	1	2 višekontaktna plovak-prekidača *2 multicontact float switch*	nije uključeno *not included*
156.05	TANK 1	1	1 tlačna sklopka/plovak *1 pressure switch/float switch*	1 tlačna sklopka/plovak *1 pressure switch/float switch*
156.07	DEEP 1	1	1 tlačna sklopka/plovak *1 pressure switch/float switch*	sa sondama *with probes*

Automatski test opterećenja uključen (softverski)
Automatic loadtest included (by software)

UPRAVLJAČKI PANELI ZA PUMPE
CONTROL PANELS FOR PUMPS

Uključi i koristi, laka i brza instalacija s različitom operativnom logikom
Plug and play, easy and quick installation with different operational logics

TEHNIČKE ZNAČAJKE ZA SVE UPRAVLJAČKE PANELE ZA DVIJE PUMPE

- Elektronička ploča Plug&Play;
- Monofazno napajanje 230V±10% 50Hz;
- Monofazni naponski ulaz u Enerbox 230V±10% 50Hz;
- Vrlo niskonaponsku ulaz za 2 plovak prekidača s kontrautegom;
- Konektori za brzo povezivanje;
- Upravljanje s dvije pumpe od 0,5 KS do 3 KS (2-16 A);
- Sklop za izmjenični rad pumpi s kašnjenjem 4" između pokretanja 2 pumpe;
- Mogućnost isključenja pumpe u kvaru;
- Automatska zamjena pumpe u kvaru;
- Selektori za AUTO-OF-MANUAL rad pumpe;
- 2 plava LED svjetla za automatski rad;
- 2 zelena LED svjetla za rad pumpi;
- 2 crvena LED svjetla za alarma zaštite pumpe od preopterećenja;
- Podesiva elektronička zaštita pumpi od preopterećenja;
- Vrijeme za aktivaciju zaštite 5";
- Taster za reset zaštite;
- Alarm za signalizaciju kvara motora;
- Zaštitni osigurač pomoćnih sklopova;
- Zaštitni osigurač pumpi;
- Kompaktan dizajn;
- Sustav za brzu instalaciju;
- Okolišna temperatura -5/+40°C uz relativnu vlažnost max. 50% (bez kondenzacije);

TECHNICAL FEATURES FOR ALL THE CONTROL PANELS FOR TWO PUMPS

- *Electronic plug and play board;*
- *Single-phase main line input voltage 230V±10% 50Hz;*
- *Single-phase enerbox voltage input 230V±10% 50Hz;*
- *Very low voltage input for 2 float switches with "anti-bouncing" system;*
- *Quick link connectors;*
- *Management of two pumps from 0,5Hp to 3Hp (2-16A);*
- *Pumps exchanger circuit with 4" delay between the starts of the 2 pumps;*
- *Possibility to exclude a damaged pump;*
- *Automatic exchange for damaged pump;*
- *Selectors for AUTO-OFF-MANUAL pump operation;*
- *2 blue led light for auto operation;*
- *2 green led light for pumps operating;*
- *2 red led light for overload pump protection alarm*
- *Adjustable pumps overload electronic protection*
- *Time for protection activation 5";*
- *Push-buttons for restoration from protection;*
- *Alarm reporting engine failure;*
- *Auxiliary circuits protection fuse;*
- *Pumps protection fuses;*
- *Compact Design;*
- *Rapid clamping system;*
- *Temperature -5/+40°C with relative humidity max 50% (not condensing);*

Opcionalni Kit UNI11292

Mogućnost daljinske signalizacije:
- Pumpe u kvaru;
- Pumpa 1 u radu;
- Pumpa 2 u radu.

Optional Kit UNI11292

Remote signals available:
- *Pumps in failure;*
- *Pump 1 in function;*
- *Pump 2 in function*

Kod *Code*	Model *Model*	Broj pumpi *Nr. of pumps*	Komanda pokretanja *Starting command*	Zaštita od rada na suho *Dry running protection*
156.02	CLEAN 2	2	2 plovak prekidača *2 float switches*	nije uključeno *not included*
156.04	DARK 2	2	3 višekontaktna plovak-prekidača *3 multicontact float switches*	uključeno *included*
156.00	DEEP 2	2	2 tlačne sklopke/plovka *2 pressure switches/float switches*	nivo-sonde *level probes*
156.06	BOOSTER	2	2 tlačne sklopke/plovka *2 pressure switches/float switches*	1 tlačna sklopka/plovak *1 pressure switch/float switch*
156.08	TEST 2 PUMPE / *2 PUMPS*	Periodički automatski test do 100 dana (s upozoravajućom SMS porukom u slučaju kvara) *Periodical automatic test up to 100 days (with warning message in case of failure)*		
156.09	KIT UNI11292	Daljinski signali alarma *Remote alarm signals*		

Za upravljačke panele za 2 pumpe adapter je standard. Sustav će raditi s različitom logikom ako je instaliran ili ako nije.
For the 2 pumps control panels an adapter is furnished as standard. The system will works with different logics if the adapter is installed or less.

Rad bez adaptera - *Operation without adapter*
Jedna pumpa napaja se iz električne mreže, a jedna preko ENERBOX sustava.
Pri napajanju iz mreže, kod svake aktivacije plovak-prekidača pumpe startaju naizmjence. U slučaju aktivacje rugog plovak-prekidača također starta druga pumpa.
U interventnom slučaju, ENERBOX opskrbljuje samo jednu pumpu. U slučaju kvara radne pumpe, sigurnosni uređaja će automatski pokrenuti drugu pumpu.
Bez adaptera: izabrati ispravnu veličinu snage Enerboxa, za rad samo jedne pumpe.
One pump supplied by the electrical main network and one by the Enerbox system:
With electrical main supply, for every activation of the float switches , pumps start alternatively. In case of activation of the second float switch, the second pump starts, too.
In case of emergency, Enerbox supply just one pump. In case of failure of the main pump the security device will automatically start the second pump.
Witouth adapter: choose the correct power enerbox size, for one pump operation only.

Rad s adapterom - *Operation with adapter*
Obadvije pumpe napaja Enerbox..
Uz napon električne mreže ili u interventnom slučaju, Enerbox napaja pumpe pokrećući ih naizmjence pri svakoj aktivaciji plovak prekidača. U slučaju visoke razine vode i aktivacije drugog plovak-prekidača odmaće se pokrenuti obje pumpe.
S adapterom: izabrati ispravnu veličinu snage Enerboxa, za rad obje pumpe.
Both pumps are supplied with Enerbox.
With electrical main network or emergency, Enerbox supply pumps start alternatively for every float switch activation. In case of high water level and activation of the second float switch the pumps will start operating immediately.
With adapter: choose the correct power enerbox size, for two pump operation both.

FOTONAPONSKI / VJETROTURBINSKI SUSTAVI
THE PHOTOVOLTAIC/WIND TURBINE SYSTEMS



ENERGREEN - FUNKCIONALNA SHEMA I PRIMJENE
APPLICATIONS

MOGUĆE NAPAJANJE
FEEDING AVAILABLE



ENERGREEN



TIPIČNA PRIMJENA
TYPICAL APLICATION



* s valnim filterom (opcionalno) str. 73 / with wave filter (on request) pag. 73

energreen 600-5100



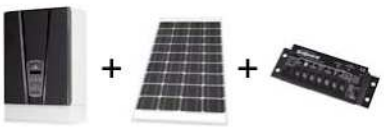


370→2300W
2,1→20A
600→5100VA

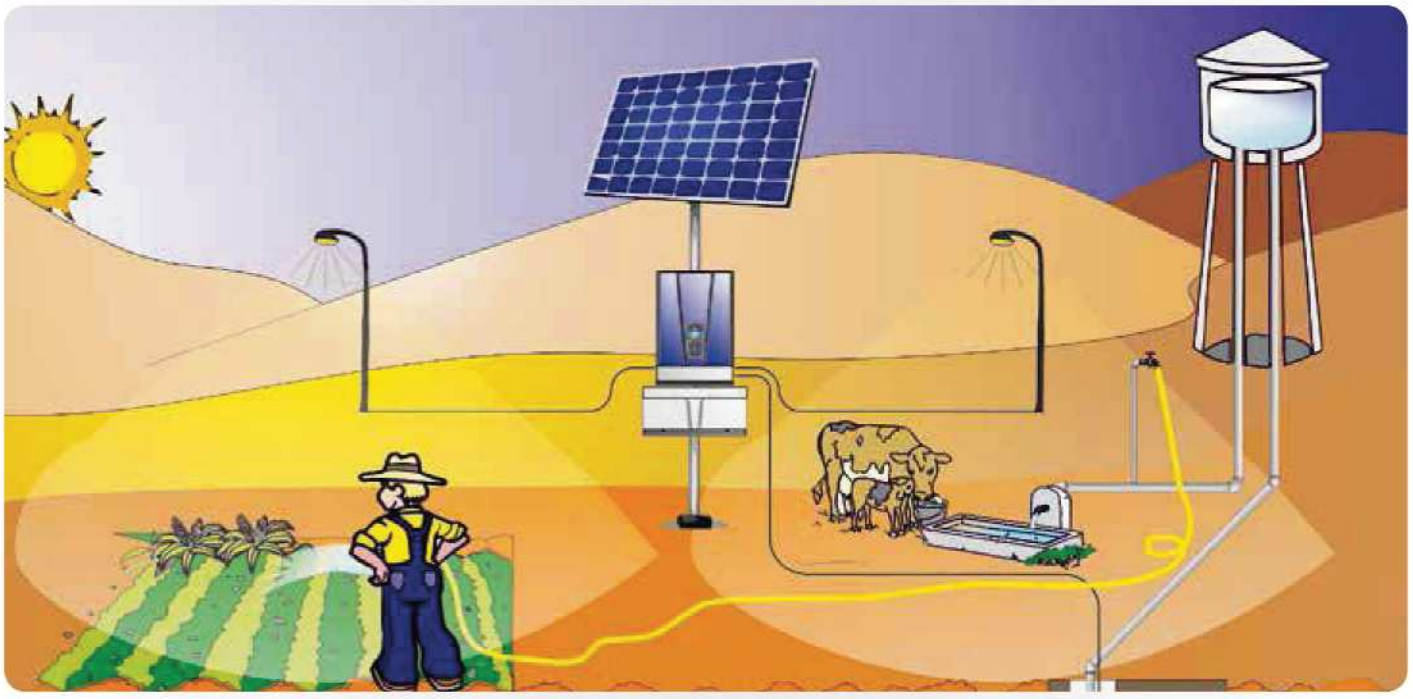
Za ENERBOX tehničke karakteristike pogledajte stranice 29-38 / ***For technical specification please go to pag. 29-38***

ENERGREEN

Set sačinjavaju: Inverter ENERBOX, fotonaponski paneli i regulator punjenja
Kit composed by: inverter ENERBOX, *photovoltaic panels and charge regulator*



Kontaktirajte naš odjel prodaje za svaku potrebnu informaciju. / ***Contact our sales department for any information.***



SUNCE NAM DAJE ENERGIJU ...

Energreen u kombinaciji s fotonaponskim panelima omogućuje čistu energiju, besplatno, na bilo kojem mjestu želite, jednostavno pomoću zraka sunca.

THE SUN GIVE YOU ENERGY...

Energreen with photovoltaic panels supply everywhere free green energy just with the solar rays power.

energreen 600-1700





370→750W
2,1→6,1A
600→1700VA

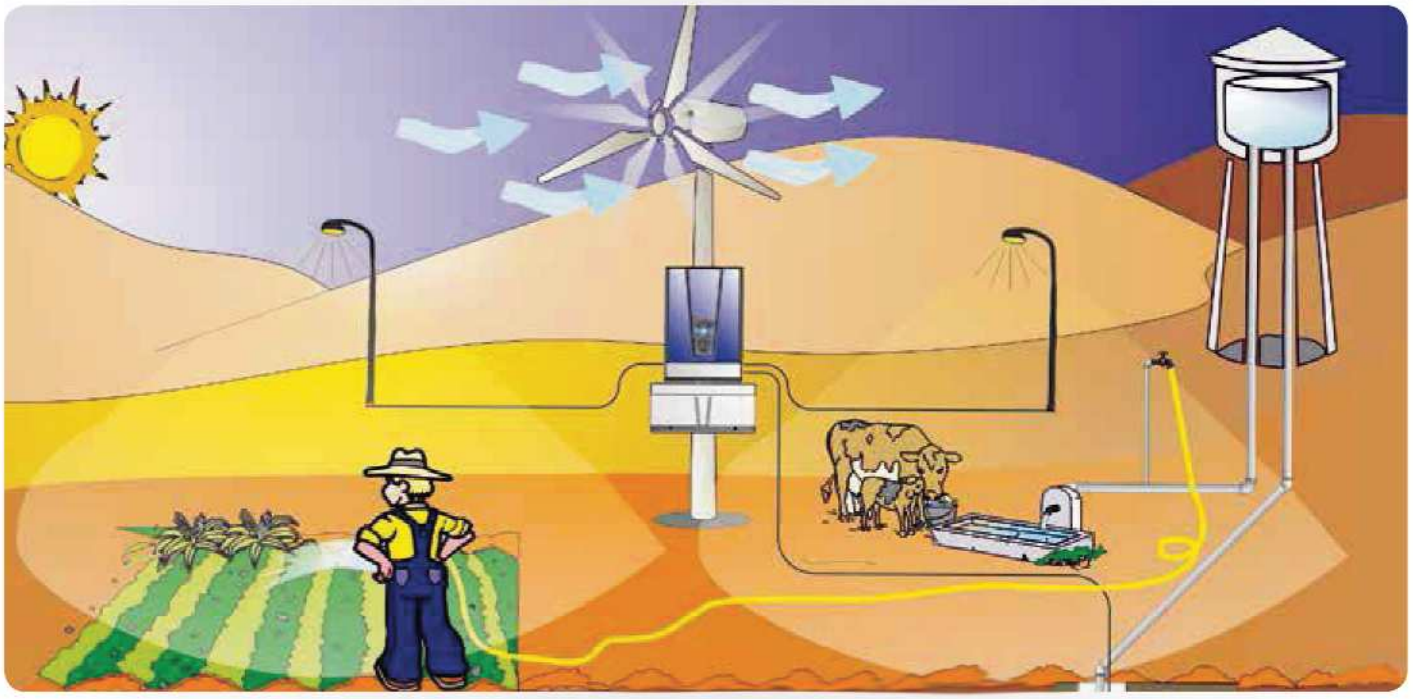
Za ENERBOX tehničke karakteristike pogledajte stranice 29-38 / *For technical specification please go to pag. 29-38*

ENERGREEN

Set sačinjavaju: Inverter ENERBOX, fotonaponski paneli i regulator punjenja
Kit composed by: inverter ENERBOX *and wind turbines*



Kontaktirajte naš odjel prodaje za svaku potrebnu informaciju. / *Contact our sales department for any information.*



VJETAR INOVACIJA ...

Energreen u kombinaciji s vjetrogeneratorom omogućuje čistu energiju, besplatno, na bilo kojem mjestu želite, jednostavno iskorištavanjem snage vjetra.

A WIND OF INNOVATIONS...

Energreen with wind turbines supply everywhere free green energy just with wind power.

SUNSYSTEM
SUNSYSTEM

SUNSYSTEM

AUTONOMNOST

MULTIFUNKCIONALNOST

BRZA INSTALACIJA

NE TREBA POVEZIVANJE NA MREŽU

AUTONOMOUS

MULTIFUNCTION

QUICK INSTALLATION

NEEDS NO CONNECTION TO THE POWER GRID



ZELENA ENERGIJA

SUNSYSTEM je integrirano "ključ-u-ruke" rješenje koje pruža mogućnost korištenja vode i struje - tamo gdje ove komunalne usluge nisu moguće.

Idealan za:
- prikupljanje vode gdje nema vodovodne mreže
- mikronavodnjavanje
- navodnjavanje vrtova
- fertirigacija
- napajanje stoke
- rasvjeta kraćih staza

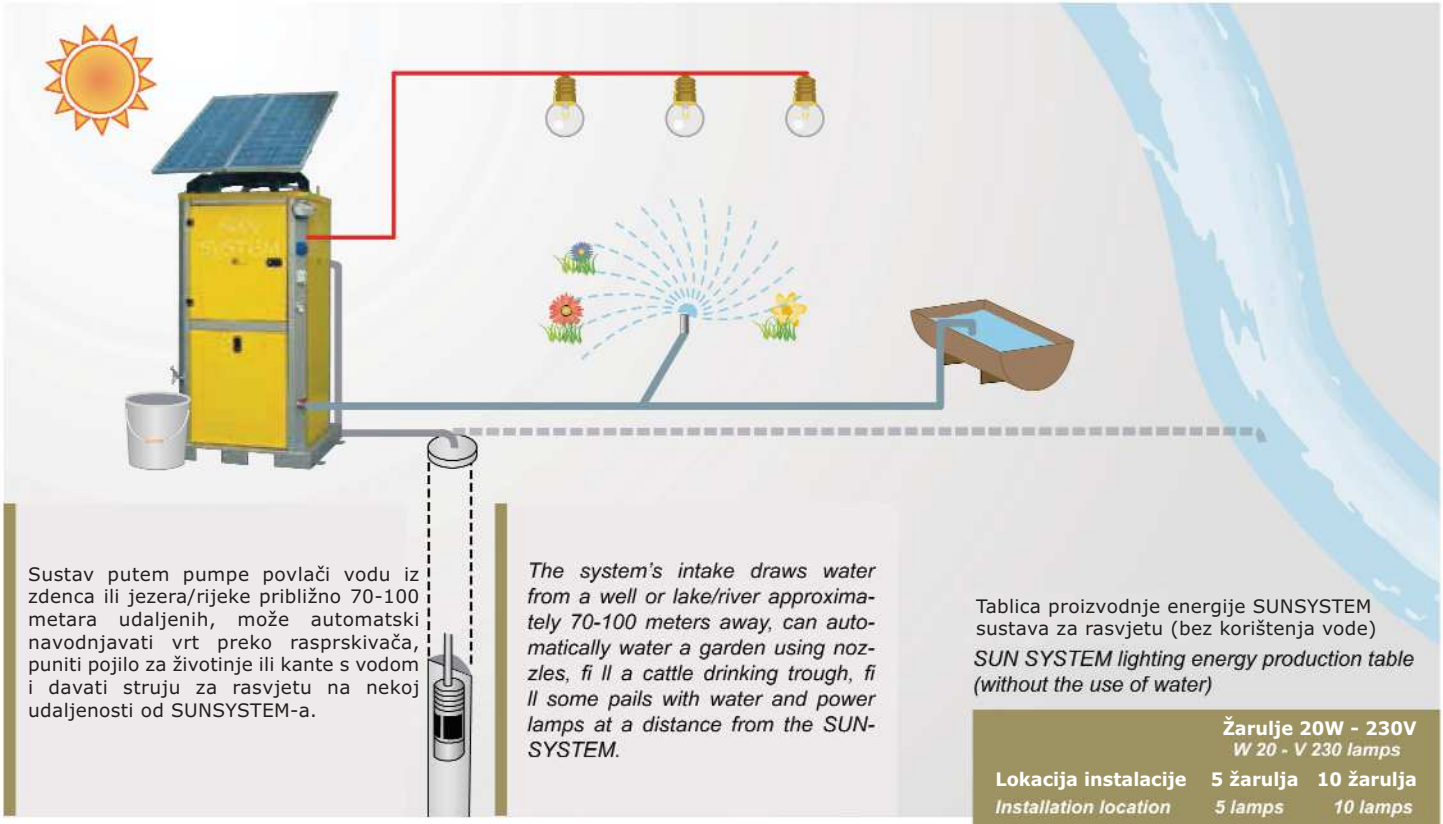
TECHNICAL FEATURES

SUNSYSTEM: an integrated "turnkey" solution that provides water and electricity where these utilities are not available.

Ideal for:
- *Collecting water where no water service is available*
- *Microirrigation*
- *Fertirrigation*
- *Watering Gardens*
- *Feeding animal troughs*
- *Lighting short paths*

Code	Model	Description	/ Dimensions (mm) L	B	H	Kg
700.72	SUNSYSTEM-SW	Sustav s akumulacijom vode *System with water storage*	800	800	2200	250
700.73	SUNSYSTEM-PW	Sustav s akumulacijom i tlačenjem vode *Accumulation system and pressurizing water*	800	800	2200	300

SUNSYSTEM
SUNSYSTEM



Sustav putem pumpe povlači vodu iz zdenca ili jezera/rijeke približno 70-100 metara udaljenih, može automatski navodnjavati vrt preko rasprskivača, puniti pojilo za životinje ili kante s vodom i davati struju za rasvjetu na nekoj udaljenosti od SUNSYSTEM-a.

The system's intake draws water from a well or lake/river approximately 70-100 meters away, can automatically water a garden using nozzles, fi ll a cattle drinking trough, fi ll some pails with water and power lamps at a distance from the SUNSYSTEM.

Tablica dnevne proizvodnje vode sustava SUNSYSTEM (bez korištenja rasvjete)

SUN SYSTEM daily water production table (without the use of lights)

Lokacija instalacije *Installation location*	**Metoda povlačenja vode** *Water drawing method*	**Dubina potapanja pumpe** *Submersed pump depth* mt 30 lit/dan *L/day*	mt 50 lit/dan *L/day*	mt 70 lit/dan *L/day*
Sjeverna Italija (zima) ***Northern Italy (winter)***	Voda - atmosferski tlak / Water pressure Atm	2500	1800	600
	Voda pod tlakom / Pressurized water	//	//	//
	Voda pod tlakom / Pressurized water	900	900	300
	Voda - atmosferski tlak / Water pressure Atm	80	//	200
Sjeverna Italija (ljeto) ***Northern Italy (summer)***	Voda - atmosferski tlak / Water pressure Atm	7700	4800	1600
	Voda pod tlakom / Pressurized water	//	//	//
	Voda pod tlakom / Pressurized water	2700	2400	1200
	Voda - atmosferski tlak / Water pressure Atm	300	//	50
Južna Italija (zima) ***Southern Italy (winter)***	Voda - atmosferski tlak / Water pressure Atm	3300	2400	800
	Voda pod tlakom / Pressurized water	//	//	//
	Voda pod tlakom / Pressurized water	1300	1200	600
	Voda - atmosferski tlak / Water pressure Atm	300	//	20
Južna Italija (ljeto) ***Southern Italy (summer)***	Voda - atmosferski tlak / Water pressure Atm	7200	5200	1800
	Voda pod tlakom / Pressurized water	//	//	//
	Voda pod tlakom / Pressurized water	3000	2600	1200
	Voda - atmosferski tlak / Water pressure Atm	//	//	190
Sjeverna Afrika ***Northern Africa***	Voda - atmosferski tlak / Water pressure Atm	8300	5900	2000
	Voda pod tlakom / Pressurized water	//	//	//
	Voda pod tlakom / Pressurized water	3300	2900	1500
	Voda - atmosferski tlak / Water pressure Atm	300	//	50
Ekvator ***Equator***	Voda - atmosferski tlak / Water pressure Atm	9600	6800	2400
	Voda pod tlakom / Pressurized water	//	//	//
	Voda pod tlakom / Pressurized water	3900	3400	1800
	Voda - atmosferski tlak / Water pressure Atm	50	//	//

Tablica proizvodnje energije SUNSYSTEM sustava za rasvjetu (bez korištenja vode)

SUN SYSTEM lighting energy production table (without the use of water)

Lokacija instalacije *Installation location*	**Žarulje 20W - 230V** *W 20 - V 230 lamps* 5 žarulja *5 lamps* sati/dan *h/day*	10 žarulja *10 lamps* sati/dan *h/day*
Sjeverna Italija (zima) ***Northern Italy (winter)***	5,5	2,5
Sjeverna Italija (ljeto) ***Northern Italy (summer)***	14,5	7
Južna Italija (zima) ***Southern Italy (winter)***	7	3,5
Južna Italija (ljeto) ***Southern Italy (summer)***	16	8
Sjeverna Afrika ***Northern Africa***	18	9
Ekvator ***Equator***	21	10,5

Sustav čine 2 fotonaponska panela 150W 12Vcc i Energreen 1300.
SUNSYSTEM koristi solarnu energiju za dobivanje slijedećih usluga:
- podizanje i prikupljanje vode u 300-litarski spremnik pod atmosferskim tlakom
- tlačenje prikupljene vode za udaljeno korištenje (18 l/m @ 2,5 bara)
- izlazni priključak za rasvjetu 230V, 50Hz

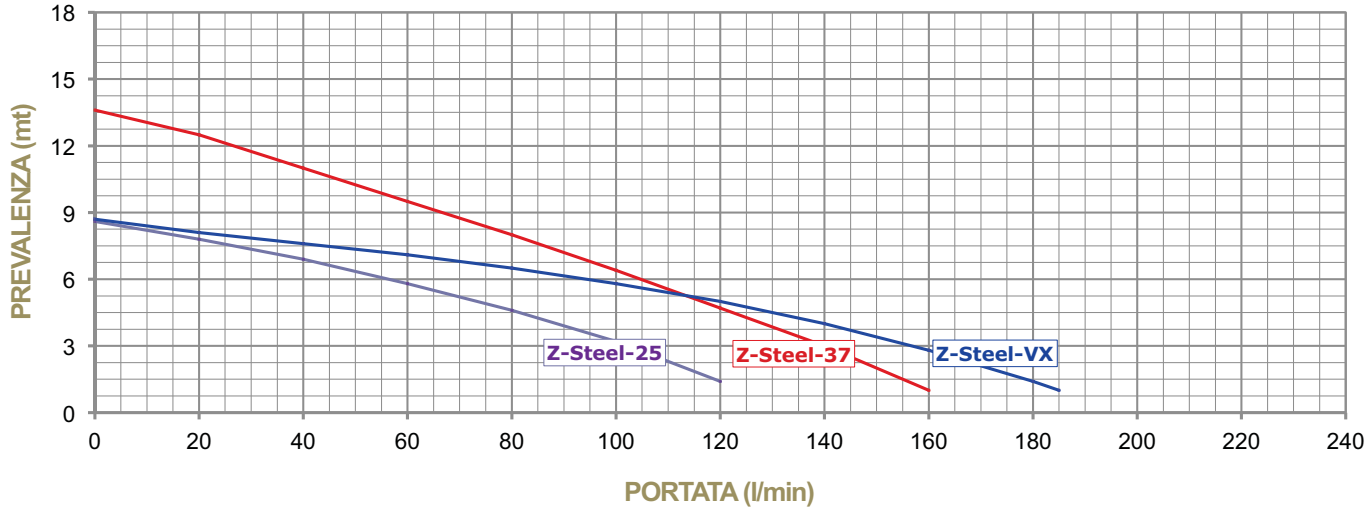
System comprising two 150W 12Vdc Photovoltaic Panels and Energreen 1300.
SUNSYSTEM uses solar energy to provide the following services:
- *Lifts and collects water at atmospheric pressure in a 300-liter tank*
- *Pressurizes the collected water for release at a distance (18 l/m at 2.5 bar)*
- *230-Volt, 50-Hz outlet for lighting*

ELETTROPOMPE MOD. **Z-STEEL**
*ELECTRIC PUMPS MOD. **Z-STEEL***



	Z-STEEL-25	Z-STEEL-37	Z-STEEL-VX
Kw	0,25	0,37	0,37
Hp	0,33	0,5	0,5
A	2,3	3,1	3,0
V	230	230	230
Hz	50	50	50
DN	1" 1/4	1" 1/4	1" 1/4

Caratteristiche tecniche	*Technical features*
Corpo pompa: acciaio inox AISI 304	*Pump body: stainless steel AISI 304*
Girante: acciaio inox AISI 304	*Impeller: stainless steel AISI 304*
Idraulica: acciaio inox AISI 304	*Hydraulics: stainless steel AISI 304*
Albero: acciaio inox EN10088-3	*Shaft: stainless steel EN10088-3*
5 m cavo alimentazione	*5 m cable*
Completa di galleggiante	*Equipped with float switch*
Immersione max 10 m	*Immersion max 10 m*
Z-STEEL-VX: per acque sporche, passaggio libero Ø 25 mm	*Z-STEEL-VX: for sewage water, max passage of solid bodies Ø 25 mm*



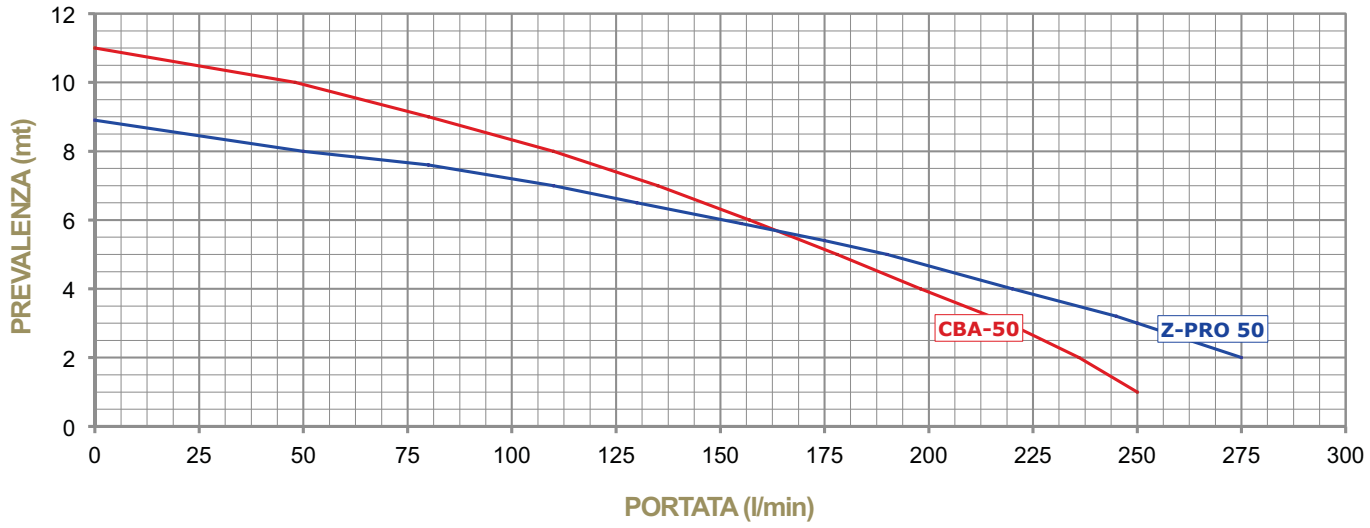
Codice *Code*	Modello *Model*	l/min	0	30	60	90	120	150	180
033.45	**Z-STEEL-25**	H mt	8,5	7	5,7	4	1,3	-	-
033.46	**Z-STEEL-37**	H mt	13,6	11,6	9,5	7	4,5	1,9	-
033.47	**Z-STEEL-VX**	H mt	8,7	7,6	7,1	6,1	5	3,4	1,3

ELETTROPOMPE MOD. **Z-PRO & CBA-50**
*ELECTRIC PUMPS MOD. **Z-PRO & CBA-50***



	Z-PRO-50	CBA-50
Kw	0,37	0,37
Hp	0,5	0,5
A	2,8	3,0
V	230	230
Hz	50	50
DN	1" 1/4	1" 1/4

Caratteristiche tecniche	*Technical features*
Corpo pompa: ghisa	*Pump body: cast iron*
Girante: ghisa	*Impeller: cast iron*
Idraulica: ghisa	*Hydraulics: cast iron*
Albero: acciaio inox AISI 420	*Shaft: stainless steel AISI 420*
5 m cavo alimentazione	*5 m cable*
Completa di galleggiante	*Equipped with float switch*
Immersione max 9-11 m	*Immersion max 9-11 m*
Z-PRO-50 max passaggio corpi solidi Ø 15 mm	*Z-PRO-50 max passage solid bodies Ø 15 mm*
CBA-50 max passaggio corpi solidi Ø 6 mm	*CBA-50 max passage solid bodies Ø 6 mm*



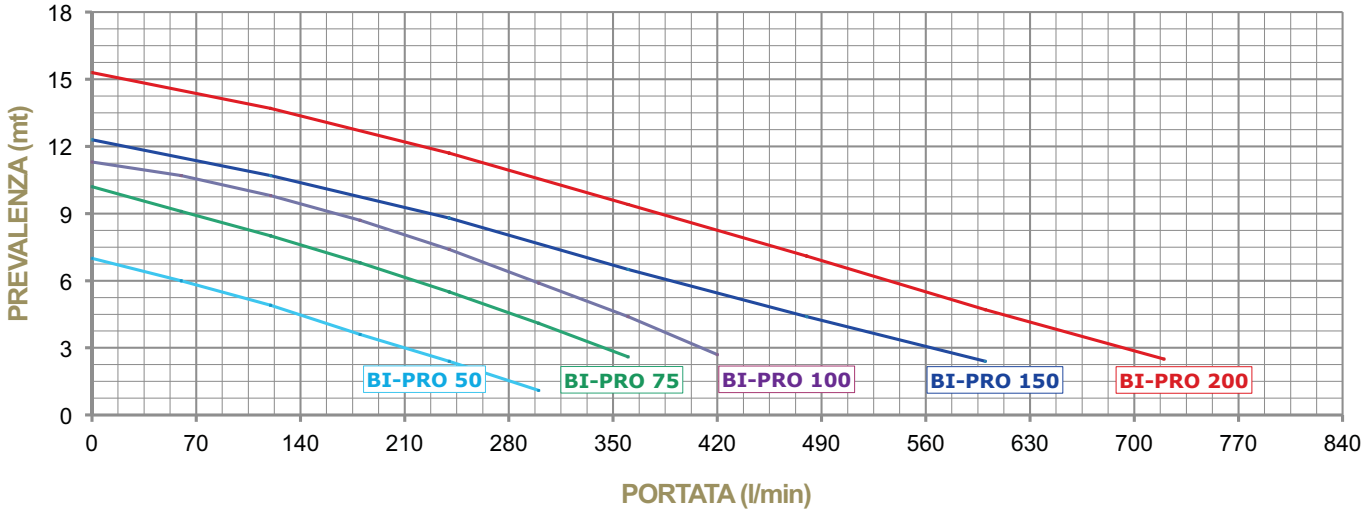
Codice *Code*	Modello *Model*	l/min	0	30	60	90	120	150	180	210	240	270
033.40	**Z-PRO-50**	H mt	8,7	8,3	7,9	7,3	6,8	6	5,3	4,3	3,4	2
033.49	**CBA-50**	H mt	11	10,4	9,6	8,6	7,5	6,1	4,9	3,4	1,9	-

ELETTROPOMPE MOD. **BI-PRO**
*ELECTRIC PUMPS MOD. **BI-PRO***



	BI-PRO 50	BI-PRO 75	BI-PRO 100	BI-PRO 150	BI-PRO 200
Kw	0,37	0,55	0,74	1,1	1,5
Hp	0,50	0,75	1,00	1,5	2,0
A	2,8	4,1	5,6	7,5	10
V	230	230	230	230	230
Hz	50	50	50	50	50
DN	1” 1/2	1” 1/2	1” 1/2	2”	2”

Caratteristiche tecniche	*Technical features*
Corpo pompa: ghisa	*Pump body: cast iron*
Girante VORTEX: ghisa	*VORTEX Impeller: cast iron*
Corpo motore: ghisa	*Motor body: cast iron*
Albero pompa: acciaio inox AISI 420	*Shaft: stainless steel AISI 420*
5 m cavo alimentazione con spina Schuko	*5 m cable with Schuko socket*
Galleggiante incluso fi no a 0,74 kW	*Equipped with float switch*
Immersione max 20 m	*Immersion max 20 m*
Elettropompe Vortex per acque sporche. Max passaggio corpi solidi Ø 50 mm.	*Vortex electric pumps for dirty water. Max passage of solid bodies Ø 50 mm.*



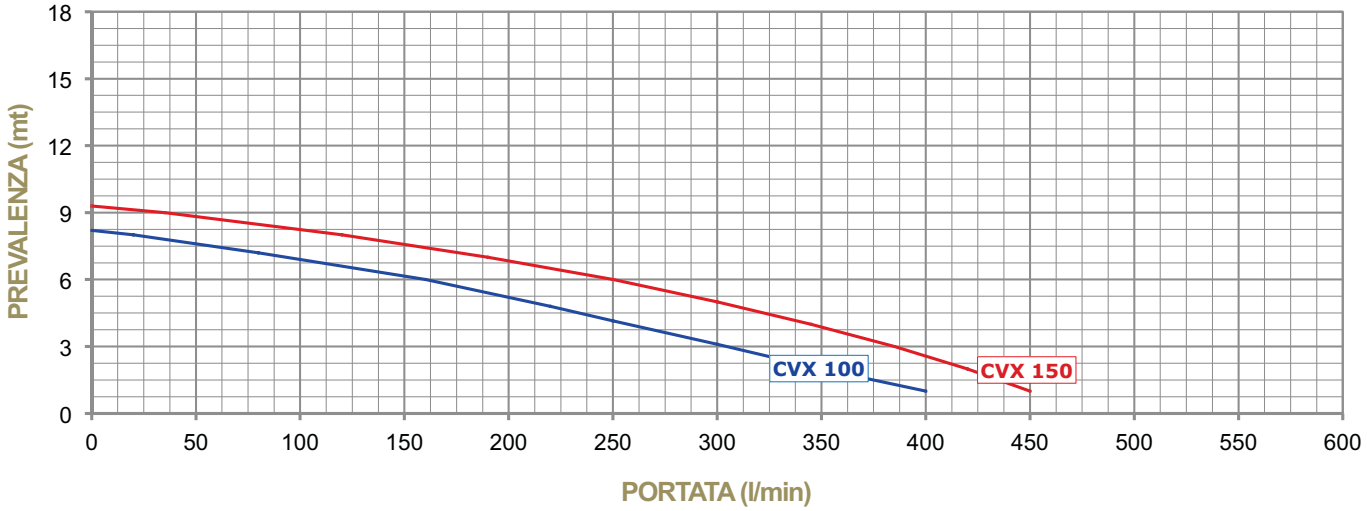
Codice *Code*	Modello *Model*	l/min	0	60	120	180	240	300	360	420	480	600	720
033.34	**BI-PRO 50**	H mt	7,0	6,0	4,9	3,6	2,4	1,1	-	-	-	-	-
033.35	**BI-PRO 75**	H mt	10,2	9,1	8	6,8	5,5	4,1	2,6	-	-	-	-
033.36	**BI-PRO 100**	H mt	11,4	10,7	9,8	8,7	7,4	5,9	4,4	2,7	-	-	-
033.37	**BI-PRO 150**	H mt	12,3	11,5	10,7	9,7	8,8	7,6	6,5	5,4	4,4	2,4	-
033.38	**BI-PRO 200**	H mt	15,3	14,5	13,7	12,7	11,7	10,5	9,4	8,2	7,1	4,7	2,5

ELETTROPOMPE MOD. **CVX**
*ELECTRIC PUMPS MOD. **CVX***



	CVX-100	CVX-150
Kw	0,75	1,1
Hp	1,0	1,5
A	5,1	6,1
V	230	230
Hz	50	50
DN	1" 1/2	2"

Caratteristiche tecniche	*Technical features*
Corpo pompa: ghisa G20	*Pump body: cast iron G20*
Girante: ghisa G20	*Impeller: cast iron G20*
Idraulica: ghisa G20	*Hydraulics: cast iron G20*
Albero: acciaio inox AISI 420	*Shaft: stainless steel AISI 420*
10 m cavo alimentazione	*10 m cable*
Completa di galleggiante	*Equipped with float switch*
Immersione max 9-10 m	*Immersion max 9-10 m*
Max passaggio corpi solidi Ø 35 mm	*Max passage of solid bodies Ø 35 mm*



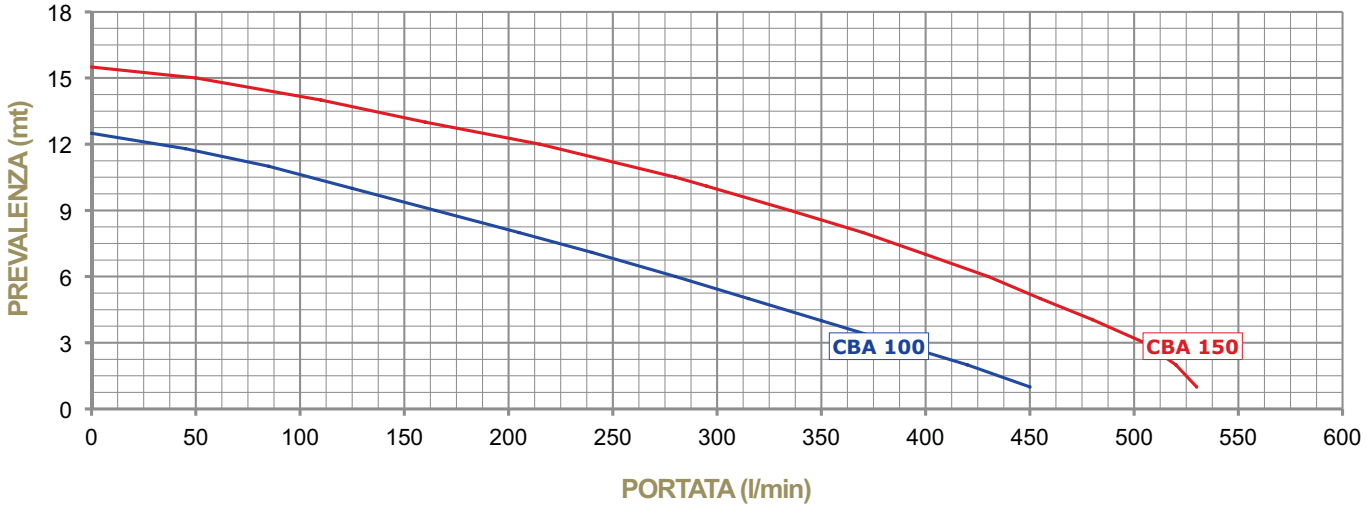
Codice *Code*	Modello *Model*	l/min	0	50	100	150	200	250	300	350	400	450
033.41	**CVX-100**	H mt	9	7,5	6,8	6,2	5,3	4	3	2	1	-
033.42	**CVX-150**	H mt	10	8,8	8,2	7,6	6,8	6	5	3,9	2,5	1

ELETTROPOMPE MOD. **CBA**
*ELECTRIC PUMPS MOD. **CBA***



	CBA-100	CBA150
Kw	0,75	1,1
Hp	1,0	1,5
A	5,0	8,0
V	230	230
Hz	50	50
DN	1" 1/2	2"

Caratteristiche tecniche	*Technical features*
Corpo pompa: ghisa G20	*Body body: cast iron G20*
Girante: ghisa G20	*Impeller: cast iron G20*
Idraulica: ghisa G20	*Hydraulics: cast iron G20*
Albero: acciaio inox AISI 420	*Shaft: stainless steel AISI 420*
10 m cavo alimentazione	*10 m cable*
Completa di galleggiante	*Equipped with float switch*
Immersione max 12-15 m	*Immersion max 10-12 m*
Max passaggio corpi solidi Ø 15-20 mm	*Max passage of solid bodies Ø 15-20 mm*



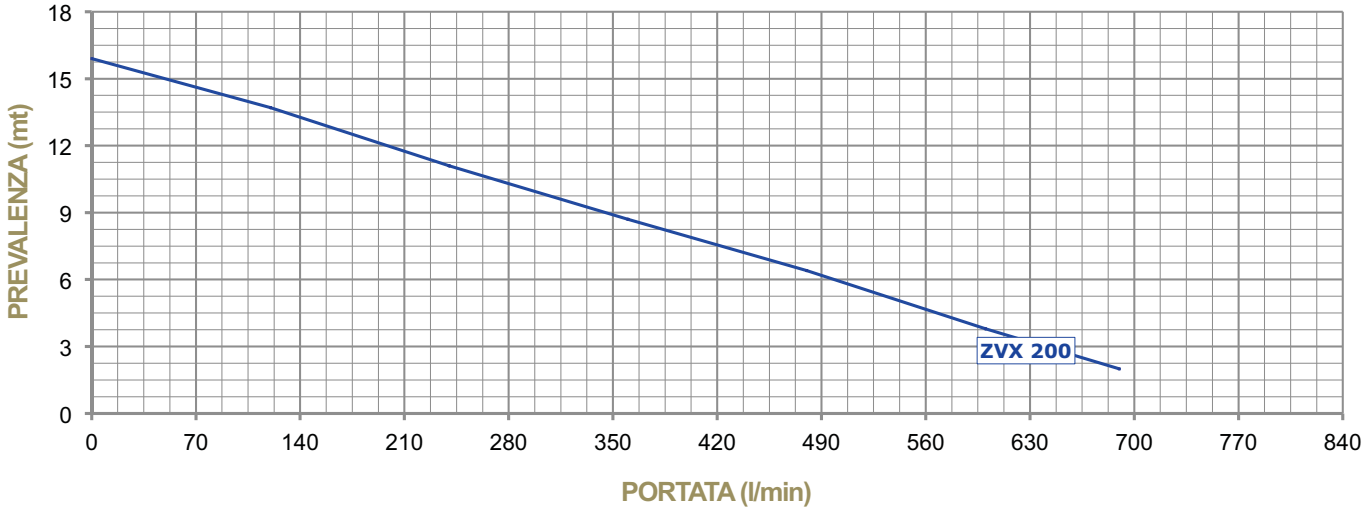
Codice *Code*	Modello *Model*	l/min	0	50	100	150	200	250	300	350	400	450	480	505	510	530
033.43	**CBA-100**	H mt	13	11,9	10,6	9,4	8,1	6,8	5,5	4	2,5	1	-	-	-	-
033.44	**CBA-150**	H mt	16	15	14,2	13,2	12,2	11,5	10,1	8,6	7	5,1	4	3	2	1

ELETTROPOMPE MOD. **ZVX**
*ELECTRIC PUMPS MOD. **ZVX***



	ZVX-200
Kw	1,5
Hp	2,0
A	9,4
V	230
Hz	50
DN	2”

Caratteristiche tecniche	*Technical features*
Corpo pompa: ghisa lamellare - EN-GJL 250	*Pump body: cast iron - EN-GJL 250*
Girante: ghisa lamellare - EN-GJL 250	*Impeller: cast iron - EN-GJL 250*
Idraulica: ghisa lamellare - EN-GJL 250	*Hydraulics: cast iron - EN-GJL 250*
Albero: acciaio inox AISI 420	*Shaft: stainless steel AISI 420*
10 m cavo alimentazione	*10 m cable*
Completa di galleggiante	*Equipped with float switch*
Immersione max 17 m	*Immersion max 17 m*
Max passaggio corpi solidi Ø 50 mm	*Max passage of solid bodies Ø 50 mm*



Codice *Code*	Modello *Model*	l/min	0	120	240	360	480	600
033.48	**ZVX-200**	H mt	15,7	13,6	11,2	8,8	6,3	3,9

ACCESSORI POMPE
PUMPS ACCESSORIES

Galleggianti
Float switches



- 20 A carico resistivo
- 8 A carico motore
- Angolo di attivazione: 45°
- Max temperatura: 60° C
- Max profondità: 10m
- Grado di Protezione: IP68

- *20 Amps resistive load*
- *8 Amps motor load*
- *Activation angle: 45°*
- *Max temperature: 60° C*
- *Max depth:10m*
- *Protection Grade: IP68*

Galleggianti multicontact
Multicontact float switches

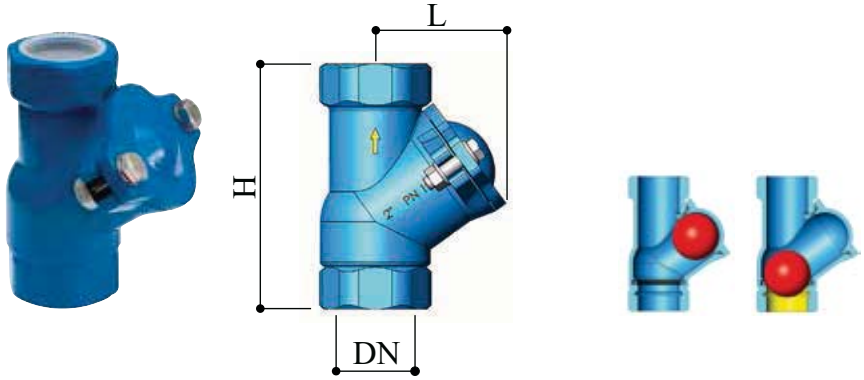


- Corpo esterno in ABS
- Doppio isolamento
- Contatto in scambio 10A 250V (carico resistivo)
- Resistenza alla pressione di esercizio 10 Bar

- *External body in ABS*
- *Double isolation*
- *Exchangeable contact 10A 250V (resistive load)*
- *Working pressure resistance 10 Bar*

Codice *Code*	Modello *Model*	Cavo *Cable*	Lunghezza (mt) *Lenght (mt)*
105.42	**GALL5N**	Neoprene 0,74 mm	5
105.43	**GALL 10N**	Neoprene 0,74 mm	10
105.44	**GALL 15N**	Neoprene 0,74 mm	15
105.49	**GALL 20N**	Neoprene 0,74 mm	20
105.40	**GALL 6MC**	Neoprene 0,88 mm	6
105.59	**GALL 10MC**	Neoprene 0,88 mm	10
105.57	**GALL 15MC**	Neoprene 0,88 mm	15
105.58	**GALL 20MC**	Neoprene 0,88 mm	20
105.407	**GALL 6MC**	Neoprene 0,74 mm	6
105.597	**GALL 10MC**	Neoprene 0,74 mm	10
105.577	**GALL 15MC**	Neoprene 0,74 mm	15
105.587	**GALL 20MC**	Neoprene 0,74 mm	20
105.38	**CONTRAPPESO / *COUNTERWEIGHT***		

Valvole di ritegno a palla per acque reflue
Ball check-valves for waste water



- Pressione massima di esercizio 10 bar
- Temperatura liquido -10/+80°C
- Corpo valvola Ghisa GG 25
- Palla Resina / NBR
- Filettate

- *Max. working pressure 10 bar*
- *Temperature of liquid -10/+80°C*
- *Valve body Cast Iron GG 25*
- *Ball Resin / NBR*
- *Threaded*

Codice *Code*	Modello *Model*	Dimensioni / *Dimensions* (mm)			
		DN (mm)	DN (inch)	L (mm)	H (mm)
107.70	**VP125**	32	1” 1/4	80	133
107.71	**VP150**	40	1” 1/2	82	150
107.72	**VP200**	50	2”	90	175
107.73	**VP250**	65	2” 1/2	130	205

ACCESSORI POMPE
PUMPS ACCESSORIES

Controllore capacitivo di livello
Capacitive level controllers



Caratteristiche tecniche	*Technical features*
Alimentazione 12 Vdc da ENERBOX	*Power supply 12Vdc from ENERBOX*
Differenziale 9 ± 1 cm (*)	*Difference threshold 9 ± 1 cm (*)*
Caratt. di uscita Relé 250V-10(4)A	*Output relay relay 250V-10(4)A*
Rigid. dielettrica 1500V	*Dielectric strength 1500V*
Temp. di funzionam. 50 °C max.	*Operating temperature 50 °C max*
Temp. immagazz. -20 °C +80 °C	*Storage temperature -20 °C + 80 °C*
Massimo Carico 120W	*Max. load 120W*
Grado di protez. IP 68	*Protection rating IP 68*
Contenitore Polipropilene atossico giallo	*Housin Yellow No toxic polypropylene (PP)*
Connessioni alimentazione/uscita cavo H07RN-F 4G1	*Power supply / output cable H07RN-F 4G1*
Omologazioni CE - EN60730	*Approval certificates CE - EN60730*
Ritardo 0 ±3 sec.	*Delay time 0 ±3 sec.*
*Riferito all'acqua	**Referred to water*

Il regolatore di livello capacitivo è un dispositivo statico che, al raggiungimento del livello prefissato, consente di dare il comando al soccorritore. Punto di forza sono l'assenza di parti in movimento ed i minimi ingombri. L'impiego ideale è alternativo al tradizionale galleggiante per comando pompe, in tutte le applicazioni nelle quali gli spazi a disposizione sono ridotti. E' equipaggiato con un sensore capacitivo integrato nella struttura plastica, che lo rende idoneo ad applicazioni con una grande varietà di liquidi. Il principio di funzionamento si basa sulla variazione capacitiva che si crea tra le due estensioni in caso di immersione. La circuiteria elettronica integrata rileva tali variazioni ed attiva la commutazione del relè. Può essere collegato direttamente all'Enerbox che fungerà anche da alimentatore. Grazie ai due fori presenti nella struttura, è facilmente installabile nei pressi della pompa.

The capacitive level regulator is a static device which, if a prearranged level has been reached, gives a starting command at the Enerbox. Benefits are the total absence of moving parts and the compact desing. The typical installation is as alternative of the traditional float switches for pumps management and in all narrow spaces application. It is equipped with a capacitive sensor, integrated in the plastic body that makes it suitable for different fluid applications. His functioning is based on the capacitive change/variation, created between the two extension, in case of fluid immersion. The integrated electronic circuit reads this variation and activate the relè commutation. It can be directly connected to the Enerbox that will works as energy supplier. Thanks to the fixing system on the sensor body, it is easy to install very close to the pump.

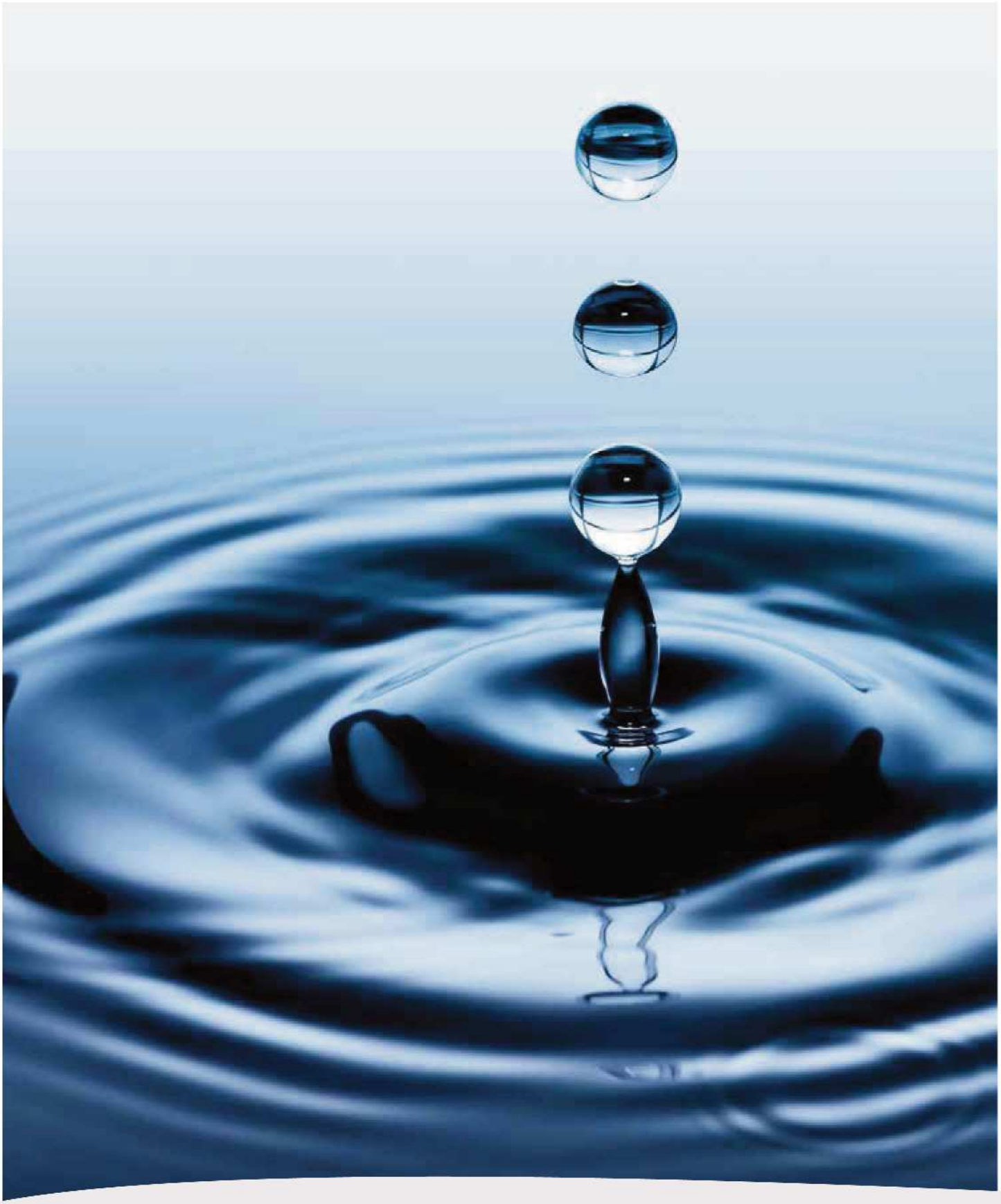
Codice *Code*	Modello *Model*	LxHxP (mm)	Cavo (mt) *Cable (mt)*
156.45	**CONTROLLORE CAPACITIVO / *CAPACITIVE CONTROLLER***	93x250x35	5

Piedi di accoppiamento rapido
Coupling feet



Codice *Code*	Modello *Model*
107.90	**PDA DN 1" 1/4**
107.91	**PDA DN 1" 1/2**
107.92	**PDA DN 2"**
107.93	**PDA DN 65 2" 1/2**

PRIBORI
ACCESSORIES



ACCESSORI
ACCESSORIES

Colori disponibili delle porte, Box e Maniglie / *Cover's available colours, Box, Handles*



Per quantità superiori a 5 pz. nessuna spesa aggiuntiva
For quantities exceeding 5 pcs. no additional expense



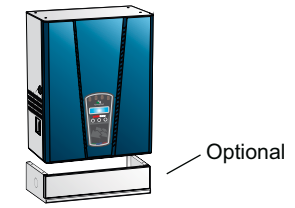
Un maggiore grado di protezione IP, singola porta, colore RAL 7035.
Best IP protection degree, single door, color RAL 7035

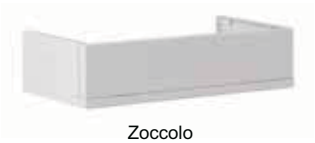


Facilitano il trasporto e il sollevamento.
For easier transport and lift

Codice *Code*	Modello *Model*	Colore *Color*	Dimensioni / *Dimensions* (mm)			Kg	Corrispondenza *Corrispondence*
			L	H	P		
156.90	-	**GIALLO / *YELLOW***	-	-	-	-	RAL 1034
156.91	-	**VERDE / *GREEN***	-	-	-	-	RAL 6029
156.92	-	**GRIGIO / *GREY***	-	-	-	-	RAL 9006
156.93	-	**ROSSO / *RED***	-	-	-	-	RAL 3002
156.61	**BOX IP54**	-	500	460	205	13	RAL 7035
156.62	**MANIGLIE / *HANDLES* (Nr. 2)**	-	-	-	-	-	-

Zoccolo copricavi / *Base strip - cable cover*



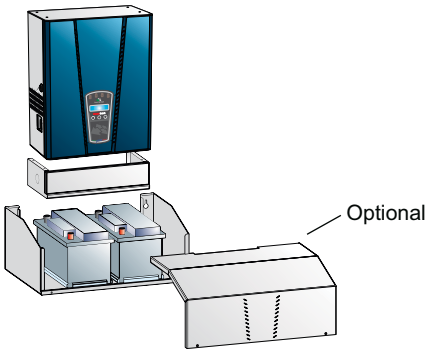


Zoccolo
Base strip

Una finitura a scomparsa.
For a beautiful finisher.

Codice *Code*	Modello *Model*	Dimensioni / *Dimensions* (mm)			Kg
		L	H	P	
156.60	**ZOCCOLO COPRICAVI / *CABLE COVER***	500	100	205	1,5

Supporto batterie / *Batteries holder*



Contenitore predisposto per fissaggio a muro - Adatto a contenere da 2 a 3 batterie da 50 a 100Ah, oppure 1 batteria fino a 180Ah - Kit tasselli di fissaggio a muro forniti di serie - Involucro metallico verniciato a polveri epossidiche - Coperchio disponibile.

Holder predisposed for wall-mounting - Suitable to contain from 2 to 3 batteries from 50 to 100Ah, or 1 battery up to 180Ah - Kit of dowels for wall-fixing - Steel painted with epoxy powders - Cover available.



Supporto
Holder



Coperchio
Cover



Supporto+Coperchio
Holder+*Cover*

Codice *Code*	Modello *Model*	Dimensioni / *Dimensions* (mm)			Kg
		L	H	P	
156.40	**SUPPORTO / *HOLDER***	580	236	392	5
156.41	**COPERCHIO / *COVER***	580	236	392	3,5

ACCESSORI
ACCESSORIES

Batterie da trazione
Traction batteries



Batterie a ridotta manutenzione - Composizione interna al piombo/acido - Tensione nominale 12VDC - Vita media batteria di 3 anni - Mantenere la temperatura di lavoro tra i 10°C ed i 25°C.

Reduced maintenance batteries - Internal composition of lead/acid - Voltage 12VDC - Medium battery's life 3 years - Keep operating temperature between 10°C and 25°C.

Codice *Code*	Modello *Model*	VDC	AH	A EN	Dimensioni / *Dimensions* (mm)			Kg
					L	H	P	
035.00	**BA50**	12	50	460	207	190	175	13
035.01	**BA60**	12	60	540	242	190	175	15
035.02	**BA80**	12	80	730	278	190	175	17
035.03	**BA100**	12	100	720	333	215	175	25
035.06	**BA160**	12	160	1050	510	228	218	44
035.07	**BA180**	12	180	1000	513	223	223	44

Batterie sigillate
Sealed batteries



Batterie sigillate - Composizione interna al piombo/acido - Indicatore ottico dello stato di carica - Tensione nominale 12VDC - Vita media batteria di 3 anni - Mantenere la temperatura di lavoro tra i 10°C ed i 25°C.

Sealed batteries - Internal composition of lead/acid - Optical indicator of charge status - Voltage 12VDC - Medium battery's life 3 years - Keep operating temperature between 10°C and 25°C.

Codice *Code*	Modello *Model*	VDC	AH	A EN	Dimensioni / *Dimensions* (mm)			Kg
					L	H	P	
035.10	**BA54SG**	12	54	520	207	175	190	13
035.11	**BA64SG**	12	64	610	242	175	190	15
035.12	**BA84SG**	12	84	730	278	175	190	17
035.13	**BA100SG**	12	100	870	353	175	190	25

Batterie al gel
Sealed gel batteries



Batteria Ermetica Regolata con Valvola (VRLA) - Composizione interna al piombo/gel - Terminale a vite M6 - Tensione nominale 12VDC - Vita media batteria di 5 anni - Mantenere la temperatura di lavoro tra i 10°C ed i 25°C

Battery Sealed Valve regulated (VRLA) - Internal composition of lead/gel - Terminal screw M6 - Voltage 12VDC - Medium battery's life 5 years - Keep operating temperature between 10°C and 25°C

Codice *Code*	Modello *Model*	VDC	AH	A EN	Dimensioni / *Dimensions* (mm)			Kg
					L	H	P	
035.16	**BA65GL**	12	65	800	350	174	166	24
035.17	**BA94GL**	12	94	800	305	174	223	33

Ponti collegamento batterie
Batteries cable



Codice *Code*	Modello *Model*	Dimensioni / *Dimensions* (mm)		Connessione *Connection*	Kg
		Sez (mm²)	L (mm)		
157.02	**PB 1**	25	600	2 x morsetto/batteria	0,5
157.03	**PB 2**	25	1300	1 x morsetto/batteria + occhiello	0,5

IMPORTANTE: Mantenere le batterie stoccate a magazzino non oltre 3 mesi rispettando le temperature nei limiti consigliati
***IMPORTANT**: Keep the batteries in stock not more than 3 months and respectfully to the temperature limits indicated*

ACCESSORI
ACCESSORIES

Modulo GSM (incluso in Enerbox)
GSM system (included in Enerbox)



Fornite di serie
Included

Il modulo GSM invia a distanza la segnalazione di eventuali anomalie di enerbox o del carico, tramite SMS.
Gli SMS vengono inviati per gli eventi “anomalia di sistema” ,“mancanza tensione di rete”,“rientro tensione di rete”.
I messaggi possono avere fino a 120 caratteri ed è possibile l’inoltro contemporaneo degli stessi a sei utenti differenti.
I testi, contatti telefonici e tutte le impostazioni necessarie sono facilmente programmabili mediante semplici SMS di comando oppure tramite software con collegamento USB. SIM non inclusa.

Caratteristiche generali:
- GSM: QUADRI BAND (900/1800 Mhz Europa,Asia eAfrica, 850/1900 Mhz Americhe)
- Installazione: interna plug and play
- Connettore antenna: SMA
- Connettore: USB
- Temperatura di esercizio: -5°C÷45°C
- Consumo standby: 40 mA
- Consumo invio/ricezione: 100mA
- Nr. Ingressi: 2
- Norme: 1995/5/EC–EN 301 511–EN 301 489-7–EN60950-1:2001.89/336/EEC



Optional
On request

Il kit comprende:
- Telecontrollo GSM
- Antenna stilo
- Supporto metallico antenna

Optional:
- Antenna GSM esterna (con cavo mt 5)
- Cavo prolunga antenna (mt 3,5)
- Cavetto USB e software di programmazione (Windows 7–Vista–XP) “sistema ripristinato”

The GSM System with an SMS, inform the user about any enerbox or charge failures.
Sms are to be sent for the followings events:“system failure”,“system resored”,“electrical mainsoff”“electrical mains restored”.
Until 120 characters can be used for a message and it is possible to send a message up to 6different users. Texts, telephone contacts and all settings are easy to manage through command SMS or withsoftware with USB connection. SIM is not included.

Main Features:
- *GSM: QUADBAND (900/1800 Mhz Europe,Asia eAfrica, 850/1900 MhzAmericas)*
- *Installation: Inside plug and play*
- *Antenna Connector: SMA*
- *Connector: USB-Operating temperature:-5°C÷45°C*
- *Stand by consumption: 40 mA*
- *Sending/receiving consumption: 100 mA*
- *Nr. Input: 2*
- *Standards:1995/5/EC–EN 301 511–EN 301 489-7–EN60950-1:2001.89/336/EEC*



The Kit includes:
- *GSM remote distance control (with mt 5 cable)*
- *Whip antenna (mt 3,5)*
- *Antenna metal bearing*

Optional
- *GSM outsideAntenna*
- *Cable extension of theAntenna*
- *USB cable and programming software(Windows 7–Vista–XP)*

Codice *Code*	Modello *Model*
156.10	**ATTENNA GSM ESTERNA (CAVO MT 5) / *GSM OUTSIDE ANTENNA (CABLE MT 5)***
156.11	**PROLUNGA CAVO ANTENNA (MT 3,5) / *CABLE EXTENSION OF THE ANTENNA (MT 3,5)***
156.12	**CAVETTO USB E SOFTWARE / *USB CABLE AND PROGRAMMING SOFTWARE***

ACCESSORI
ACCESSORIES

Interfaccia BUS
BUS interface

E' possibile interfacciare enerbox con sistemi domotici (funzionamento BUS), per avere segnalazioni in caso di anomalie del soccorritore o del carico.
Enerbox is easy interfaced with domotic systems (BUS functioning). It is used to receive and managewarning in case of failure of the system and charge.



CONTACT
L'interfaccia dispone di due ingressi indipendenti, di un ingresso BUS e di un led per la segnalazione di corretto funzionamento.E' possibile inviare comandi a due attuatori distinti o un comando doppio per un unico attuatore.
Dati tecnici: Alimentazione da BUS SCS 27 Vdc, Alimentazione di funzionamento con BUS SCS 18-27Vdc, Assorbimento 3,5 mA, installazione interna ad enerbox.

The interface has two indipendent inputs, one BUS input and one LED for correct functioning warning.it is possible to send command to two actuators or a double command for just one actuator.
Technical details: BUS supplying SCS 27 Vdc, functioning supplying with BUS SCS 18-27Vdc, Powerconsumption 3,5 mA, enerbox internal installation.



COMMAND
L'interfaccia dispone di un ingresso NO, di un contatto relay per il controllo del carico, di un ingresso BUS e di un led per la segnalazione di corretto funzionamento. L'attuatore esegue tutte le modalità operative base configurabili direttamente sul comando, ad esclusione di quelle che prevedono l'utilizzo di due relay interbloccati. Dati tecnici: Alimentazione da BUS SCS 27 Vdc, Alimentazione di funzionamento con BUS SCS 18-27Vdc, Assorbimento 13 mA, installazione interna ad enerbox, potenza massima carico 250V 2A.

The interface has one NO input, one relay contact for the charge control, one BUS input and one LEDthe for correct functioning warning.The actuator runs all the basic, directly setting on the command,operative mode. It doesn't run the ones which is necessary two interlocked relay.Technical details: BUS supplying SCS 27 Vdc, functioning supplying with BUS SCS 18-27Vdc, Powerconsumption 13 mA, enerbox internal installation, maximum power of the charge 250V 2A.



RELAY
Attuatore che incorpora 2 relé indipendenti per l'azionamento di due carichi, due pulsanti per l'azionamento manuale, un ingresso BUS e un led per la segnalazione di corretto funzionamento. L'attuatore esegue tutte le modalità operative base configurabili direttamente.
Dati tecnici: Alimentazione da BUS SCS 27 Vdc, Alimentazione di funzionamento con BUS SCS 18-27Vdc, Assorbimento max 28 mA, installazione esterna ad enerbox su barra DIN, temperatura funzionamento 0-40°C.

Actuator which includes 2 indipendents relè for the starting of two charges,one BUS input and one LEDthe for correct functioning warning.The actuator runs all the basic, directly setting on the command,operative mode. Technical details: BUS supplying SCS 27 Vdc, functioning supplying withBUS SCS 18-27Vdc, maxPower consumption28 mA, enerbox outdoor DIN installation, operating temperature0-40°C.

Codice *Code*	Modello *Model*
156.15	**CONTACT**
156.16	**COMMAND**
156.17	**RELAY**

ACCESSORI
ACCESSORIES

Carica batterie extrapack
Battery charger extrapack



Potente carica batterie per la ricarica rapida da rete, di pacchi batterie maggiorati. Processo di carica interamente controllato da microprocessore. DIP Switch per la selezione del tipo di batterie (Acido–Gel –VRLA).

Powerful batteries charger for a fast main electric net re-charge of increased batteries packs. Charging process entirely controlled by microprocessor. Dip switch for the batteries type selection (acid-gel-VRLA).

Codice *Code*	Modello *Model*	Alimentazione *Power supply*	Tensione batterie (V) *Batteries voltage (V)*	Corrente di carica *Charger current*	Ah batterie *Battery Ah*	Dimensioni / *Dimensions* (mm)			Kg
						H	L	P	
156.85	**CBEX-12**	230V±10% / 50+60 Hz	12	15	80/160	173	270	90	2,2
156.86	**CBEX-24**	230V±10% / 50+60 Hz	24	20	100/200	173	270	90	2,2
156.87	**CBEX-36**	230V±10% / 50+60 Hz	36	25	160/320	173	270	90	2,2

Filtro onda
Wave filter



Induttanza monofase che stabilizza l'onda in uscita di enerbox, per il suo utilizzo con apparecchiature elettroniche complesse.

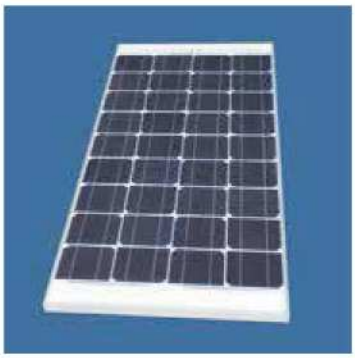
Single-phase inductance that stabilizes the output tension wave of enerbox, for applications with complex electronic equipment.

Codice *Code*	Modello *Model*	VA	Dimensioni / *Dimensions* (mm)			Kg
			L	H	P	
156.50	**FILTRO 600**	54	85	80	70	1,2
156.51	**FILTRO 900**	80	85	80	75	1,4
156.52	**FILTRO 1300**	117	85	80	80	1,6
156.53	**FILTRO 1700**	166	100	90	90	2,5
156.54	**FILTRO 2100**	168	100	90	90	2,5
156.55	**FILTRO 2600**	220	100	90	95	2,8
156.56	**FILTRO 3100**	288	125	110	105	4,2
156.57	**FILTRO 4100**	407	125	110	110	5,0
156.58	**FILTRO 5100***	557	300	400	200	10

*** In box separato**
*** *In different box***

SAMOSTOJEĆE INSTALACIJE
STAND-ALONE INSTALLATIONS

Fotonaponski paneli
Photovoltaic panels



Fotonaponski paneli čine Enerbox pogodnim u samostojećim izvedbama za udaljene lokacije bez električne mreže. Izrađen od prvoklasnih materijala Enerbox je izbor dobrih performansi i dugovječne opreme.
Ćelije visokih performansi, anti-refleksna stakla s visokom transmitencijom i anodizirani alumijski okvir.
The photovoltaic panels make Enerbox suitable in stand-alone applications for remote location unsupplied with main energetic networks. Built with first rate quality materials Enerbox is a long term and high performance choice.
High performance Cells, anti-reflex glasses with high transmittance and anodized aluminium frame.

Kod *Code*	Model *Model*	Max. snaga (W) *Max power (W)*	Max. napon (V) *Max voltage (V)*	Napon otvor. kruga (V) *Open circuit voltage (V)*	Max. jakost (A) *Max current (A)*	Dimenzije (mm) *Dimensions (mm)*
156.18	MODULO 40	40	16	21,6	2,4	655x535x34
156.19	MODULO 80	80	16	21,6	4,9	890x655x34
156.20	MODULO 115	115	17,7	21,6	6,5	1325x655x34
156.21	MODULO 150	150	18,75	22	8,63	1480x680x46
156.22	MODULO 250	250	29,2	35,53	8,56	1645x990x46
156.23	MODULO 300	300	34,4	41,2	8,72	1975x990x46

POZOR: preporučena struja punjenja akumulatorske baterije je 10% od njezine nazivne Ah vrijednosti.
WARNING: the maximum recharge current of the batteries is the 10% of the Ah.

Primjer:
1 baterija 12V 100Ah --> struja punjenja max 10A (12V)
3 baterije 12V 100Ah u seriji --> struja punjenja max 10A (36V)
3 baterije 12V 100Ah paralelno --> struja punjenja max 30A (12V)

Example:
n 1 battery 12V 100 ah --> recharge current max 10 A (12V)
n 2 battery 12V 100 ah in series --> recharge current max 10 A (36V)
n 3 batteries 12V 100 Ah in parallel --> recharge current max 10A (12V)

Regulator punjenja (za korištenje s fotonaponskim panelima)
Charge regulator (for use with photovoltaic panels)



S regulatorom punjenja je moguće napajati i puniti baterije preko solarnih panela.
Naponi 12, 24, 36 Vdc - jakost struje od 6 do 45 A - radna temperatura -30°÷50°

With a charge regulators is possible to supply and re-charge batteries with photovoltaic panels.
Voltage 12, 24, 26 Vdc – current from 6 to 45 A – operating temperature – 30°C- 50°

Kod *Code*	Model *Model*	Max. snaga (W) *Max power (W)*	Max. napon (V) *Max voltage (V)*	Max. jakost (A) *Max current (A)*	Dimenzije (mm) *Dimensions (mm)*
156.24	REGO 12V 6A	72	12	6	151x66x36
156.25	REGO 12V 10A	120	12	10	151x66x36
156.26	REGO 12V 20A	240	12	20	151x66x36
156.27	REGO 24V 10A	240	24	10	152x55x34
156.28	REGO 24V 20A	480	24	20	168x55x34
156.29	REGO 36V 45A	1600	36	45	257x124x58

Tehnički odjel je na raspolaganju za selektiranje najpodesnijih nosećih konstrukcija.
The technical department is at your disposed to find the most suitable support structures.

SAMOSTOJEĆE INSTALACIJE
STAND-ALONE INSTALLATIONS

Vjetroturbine
Wind turbines

Vjetroturbine čine Enerbox podesnim za samostojeće instalacije u udaljenim mjestima koje nisu u električnom mreži.
Izgrađene od prvoklasnih i otpornih materijala, one su dugovječne i odabir s visokim performansama u različitim vremenskim uvjetima.

The wind turbines make make Enerbox suitable in stand-alone applications for remote location unsupplied with main energetic networks. Built with first rate quality resistant materials are a long term and high performance choice in different weathers conditions.

BREEZE



- permanentni magnetski alternator bez četkica
- lako održavanje - samo dva pokretna dijela
- integrirani regulator punjenja
- stop-sklopka opcionalno (za zaustavljanje pri nepovoljnim vremenskim uvjetima)

Promjer rotora: 1,17 m
Težina: 5,9 kg
Potporna cijev (nije uključena): Ø 48 mm
Materijal lopatice: karbonska vlakna
Materijal generatora: aluminijska legura
Brzina vjetra za početak punjenja: 2,68 m/s

- *Permanent magnet alternator brushless*
- *Low maintenance - only two moving parts*
- *Integrated charge controller*
- *Stop-switch optional (for adverse weather conditions)*

Rotor diameter: 1,17 m
Weight: 5,9 kg
Support tube (excluded): Ø 48 mm
Paddle material: Carbon Fibre
Generator material: Aluminum alloy
Wind speed start charge: 2,68 m/s

WIND



- permanentni magnetski alternator
- za kombinirane vjetro i fotonaponske sustave
- eksterni regulator punjenja
- stop-sklopka opcionalno (za zaustavljanje pri nepovoljnim vremenskim uvjetima)

Promjer rotora: 1,2 m
Težina: 11,5 kg
Potporna cijev (nije uključena): Ø 60 mm
Materijal lopatice: karbonska vlakna
Maksimalna brzina vjetra: nije ograničena
Brzina vjetra za početak punjenja: 3,5 m/s

- *Permanent magnet alternator*
- *For use in mixed wind and photovoltaic*
- *External charge controller*
- *Stop-switch optional (for adverse weather conditions)*

Rotor diameter: 1,2 m
Weight: 11,5 kg
Support tube (excluded): Ø 60 mm
Paddle material: Carbon Fibre
Maximum wind speed: no limit
Wind speed start charge: 3,5 m/s

Kod *Code*	Model *Model*	Max. snaga (W) *Max power (W)*	Napon (V) *Voltage (V)*	Max. jakost (A) *Max current (A)*	Baterije (Ah) *Batteries (Ah)*
156.38	BREEZE 12	200	12	8	50÷80
156.30	BREEZE 24	200	24	8	50÷80
156.31	STOP SWITCH BREEZE	-	-	-	-
156.32	WIND 24	350	24	14,5	100÷200
156.33	REGO "WIND 24"	480	24	20	-
156.36	STOP SWITCH WIND	-	-	-	-

POZOR: preporučena struja punjenja akumulatorske baterije je 10% od njezine nazivne Ah vrijednosti.

WARNING: the maximum recharge current of the batteries is the 10% of the Ah

Primjer:
2 baterije 12V 100Ah u seriji --> struja punjenja max 10A
2 baterije 12V 100Ah paralelno --> struja punjenja max 20A

Example:
n 2 in series batteries 12V 100 ah --> max recharge current of 10 A
n 2 in parallel batteries 12V 100 Ah --> max recharge current 10A

Reg: regulator punjenja / *Rego: charge controller*

ACCESSORI
ACCESSORIES

SA1/SLA1 - Avvisatore autoalimentato per segnalazione di allarme da contatto remoto
SA1/SLA1 - Alarm panel with battery back-up



SLA1

SA1

- Sirena di Allarme elettronica;
- Ingresso rete 1 ~ 50/60Hz 230V ±10%;
- Ingressi in bassissima tensione per comando allarme da contatti puliti N.A. e N.C.;
- Led spia verde presenza rete;
- Led spia rossa allarme;
- Led spia rossa esclusione allarme sonoro;
- Sirena Allarme 90dB a 1mt;
- Lampeggiatore elettronico rosso (solo modello SLA/1);
- Pulsanti di esclusione/inclusione allarme sonoro;
- Pulsante ripristino allarme;
- Carica batterie e batteria tampone per alimentazione allarme 24h;
- Selettore interno inserimento “Allarme Continuo/ Autoripristinabile”;
- Selettore interno inserimento temporizzazione sirena;
- Regolatore temporizzazione allarme sonoro da 0”-180”;
- Involucro in ABS;
- Uscita con pressacavi antistrappo;
- Grado di protezione IP55;
- Temperatura ambiente: -5/+40 °C;
- Umidità relativa 50% a 40 °C (non condensata).

- *Electronic alarm panel;*
- *Input voltage 1~50/60 Hz 230V ±10%;*
- *Very low voltage input for alarm control from free contacts N.O. and N.C.;*
- *Green led for power on;*
- *Red led for alarm;*
- *Red led for exclusion of acoustic alarm;*
- *Sounder 90dB at 1 mt distance;*
- *Electronic red flashing light (only for SLA/1 model);*
- *Push-buttons for activation/disactivation of the sounder;*
- *Alarm-restore push-button;*
- *Battery recharger and buffer battery for 24h power supply;*
- *Internal selector for activation “Countinuous alarm/ Autorestorable”;*
- *Internal selector for alarm-timer activation;*
- *Acoustic alarm timer adjuster 0”÷180”;*
- *Box in ABS;*
- *Output with cable holder;*
- *Protection IP55;*
- *Ambient temperature: -5/+40 °C;*
- *Relative humidity 50% at 40 °C (not condensed).*



ALARM GSM

- Kit modem GSM programmabile per l’invio a telefoni cellulari di segnale allarme intervento sirena (il modem funziona con scheda ricaricabile GSM)

- Kit modem GSM to transmit the signal of alarm activation to mobile phones (the modem works with rechargeable GSM card)

Codice *Code*	Modello *Model*	Autonomia batterie *Battery endourance*	Pressione sonora *Acoustic pressure*	Dimensioni / *Dimensions* (mm)			Kg
				L	H	P	
100.98	**SA/1**	24 h	90 dBm	240	340	170	1
100.99	**SLA/1**	24 h	90 dBm	240	410	170	1,5
156.46	**ALARM GSM**	-	-	-	-	-	-

LS1 - Avvisatore acustico/luminoso per la segnalazione di allarme da contatto remoto
LS1 - Light and sound alarm panel



- Sirena di allarme;
- Alimentazione (vedi modelli);
- Ingressi in bassissima tensione per comando allarme da contatti puliti N.A. e N.C.;
- Lampeggiatore elettronico rosso;
- Sirena allarme 90dB a 1 mt.;
- Involucro in ABS;
- Uscita con pressacavi antistrappo;
- Grado di protezione IP55;
- Temperatura ambiente: -5/+40 °C;
- Umidità relativa 50% a 40 °C (non condensata).

- *Acoustic and visive alarm;*
- *Input voltage (see models);*
- *Sounder 90dB at 1 mt. distance;*
- *Electronic red flashing light;*
- *Box in ABS;*
- *Output with cable holder;*
- *Protection IP55;*
- *Ambient temperature: -5/+40 °C;*
- *Relative humidity 50% at 40 °C (not condensed).*

Codice *Code*	Modello *Model*	Alimentazione (Volt) *Power supply (Volt)*	Dimensioni / *Dimensions* (mm)			Kg
			L	H	P	
100.94	**LS1-12**	12	160	160	140	0,5

RICAMBI
SPARE PARTS

Schede
Boards



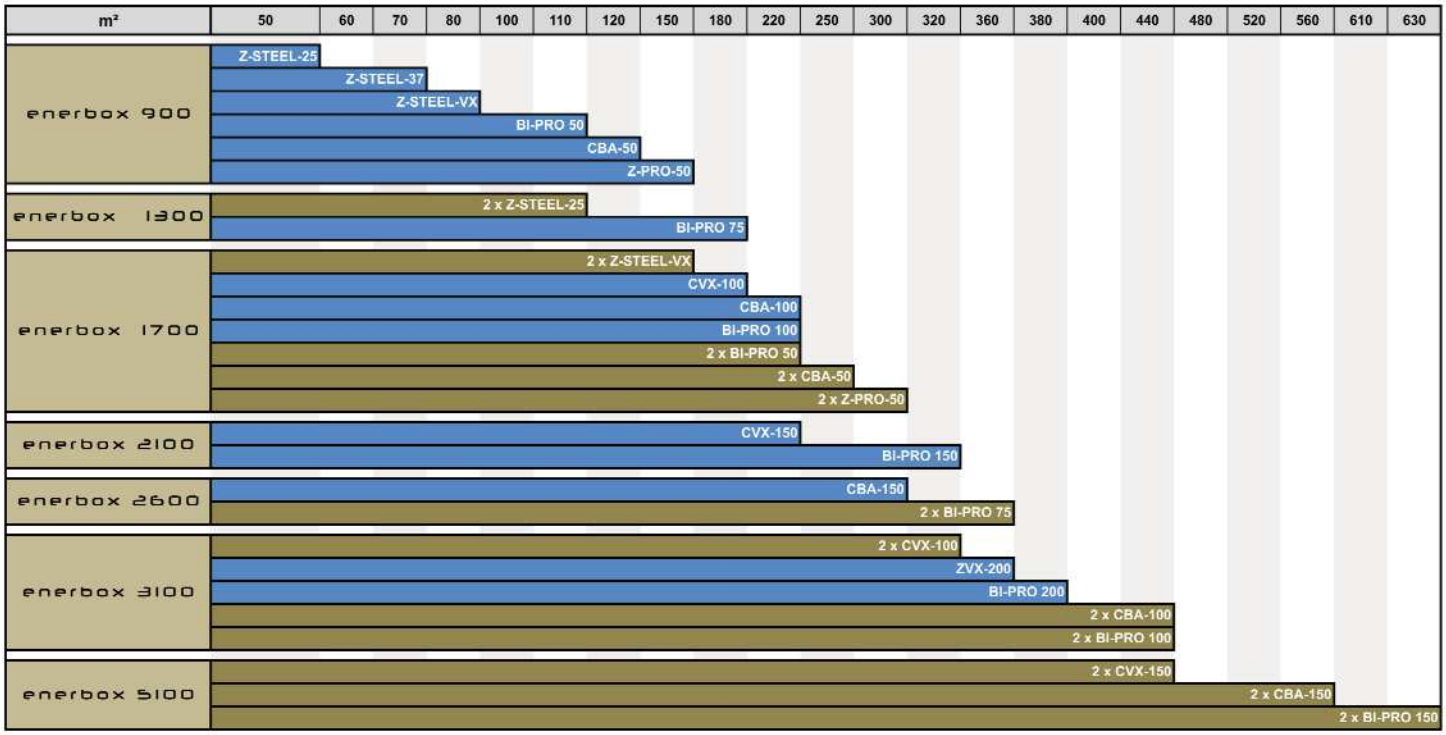


Codice *Code*	Modello *Model*
110.16	SCHEDA / BOARD BRIO / ECOBOX
156.71	SCHEDA MADRE / *MOTHER BOARD* ENERBOX 900
156.72	SCHEDA MADRE / *MOTHER BOARD* ENERBOX 1300
156.73	SCHEDA MADRE / *MOTHER BOARD* ENERBOX 1700
156.74	SCHEDA MADRE / *MOTHER BOARD* ENERBOX 2100
156.75	SCHEDA MADRE / *MOTHER BOARD* ENERBOX 2600
156.76	SCHEDA MADRE / *MOTHER BOARD* ENERBOX 3100
156.77	SCHEDA MADRE / *MOTHER BOARD* ENERBOX 4100
156.78	SCHEDA MADRE / *MOTHER BOARD* ENERBOX 5100
156.79	PANNELLO DISPLAY / *DISPLAY PANEL* ENERBOX
156.82	SCHEDA 2 POMPE / *2 PUMPS BOARD*
105.89	SCHEDA / *MOTHERBOARD* SA1/SLA1
156.80	CARICABATTERIE / *BATTERY CHARGER* 24V 3A
156.81	CARICABATTERIE / *BATTERY CHARGER* 36V 3A

IZBOR ENERBOX BACK-UP SUSTAVA
ENERBOX SELECTION

Tablica za izbor Enerbox back-up sustava prema površinama pod kišenjem uz visinu podizanja (pumpanja) vode 3 metra

Table for selection of the back-up sump pump system on the base of the surface under the rain with 3 metres of head



Za dimenzioniranje protupoplavnog sustava molimo razmislite o ova 4 parametra:

1. Autonomija u slučaju zamračenja (nestanka struje)
Barem 1 ili 2 sata autonomnog rada je neophodno, jer u slučaju kiše, pumpe rade po 1 minutu svakih 10 (približno 6 minuta po satu)

2. Površina izložena kišenju (u metrima kvadratnim)
Za točan izračun vodeog toka neophodno je uzeti u obzir sve dodatne otvorene površine kao krovovi, krovni prozori, podrumski otvori, ...
Primjer: izložena površina od 128 čm + druge kišene površine ukupno 22 čm = ukupno površina izložena kišenju je 150 čm

3. Visina podizanja (m)
je razlika visina između usisa pumpe i izlaza (ispusta) dreniranih voda

4. Kapacitet (protoka) električne pumpe (u l/min)
je rezultat jednostavnog izračuna primjenom formule koja uzima u obzir također i gubitak tlaka (strujanja9 oko 20%.
Formula: (ukupna površina + 20%) x 1,5 (K koeficijent) -->
Primjer: (150+20%) x 1,5 = 270 l/min. Dakle, u ovm slučaju predlažemo električnu pumpu s kapacitetom 270 l/min.

Tehničke specifikacije pumpi su na stranicama 44-51 tvorničkog kataloga.

To size a flooding system please consider these 4 parameters:

1° Autonomy in case of black out
at least 1 or 2 hours autonomy is necessary because, in case of rain, the pump works for 1 minute every 10 (approximately 6 minutes per hour)

2° Well wet rain surface (in squared meters)
for an accurate calculation of the water flow is necessary consider all the additionals open areas as roofs, skylights etc…
Example: well wet rain surface of 128 sq.mt. + others well wet rain surfaces of total 22 sq.mt. = total well wet rain surface is 150 sq.mt.

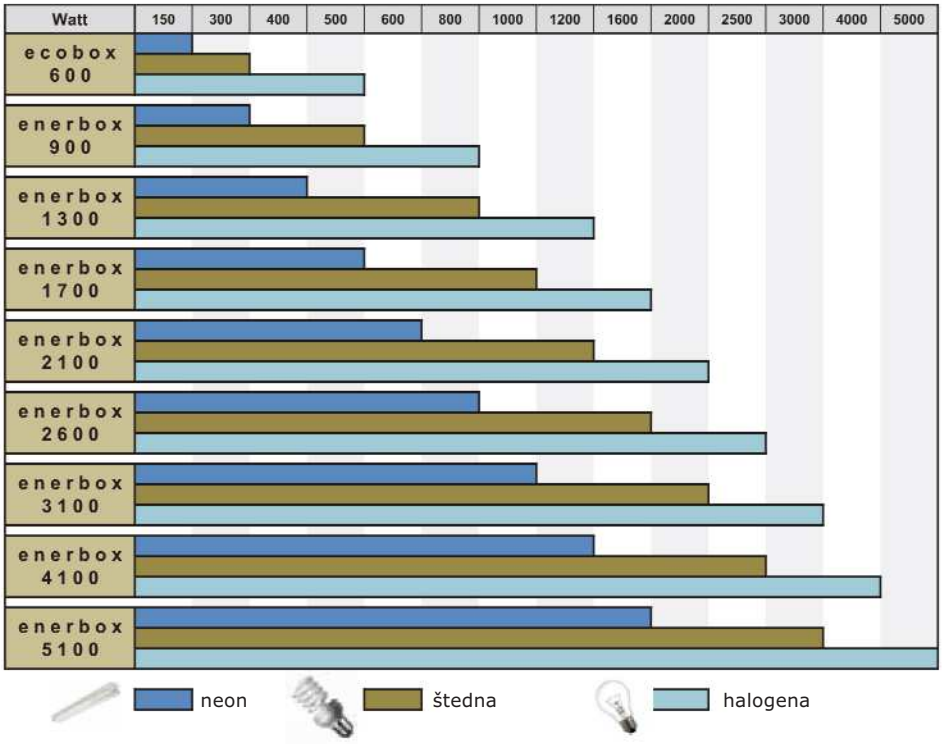
3° Head (mt.)
it is the difference in altitude between the pump suction and the discharge of the sewage system

4° Pump flow rate (in liters per minute)
it is the results of the multiplication of (total wet well rain surface + 20% of pressure drop) x 1,5 (K coefficient)
Example: (150 + 20%)x 1,5 = 270 l/m, in this case, we suggest an electropump of 270 l/min

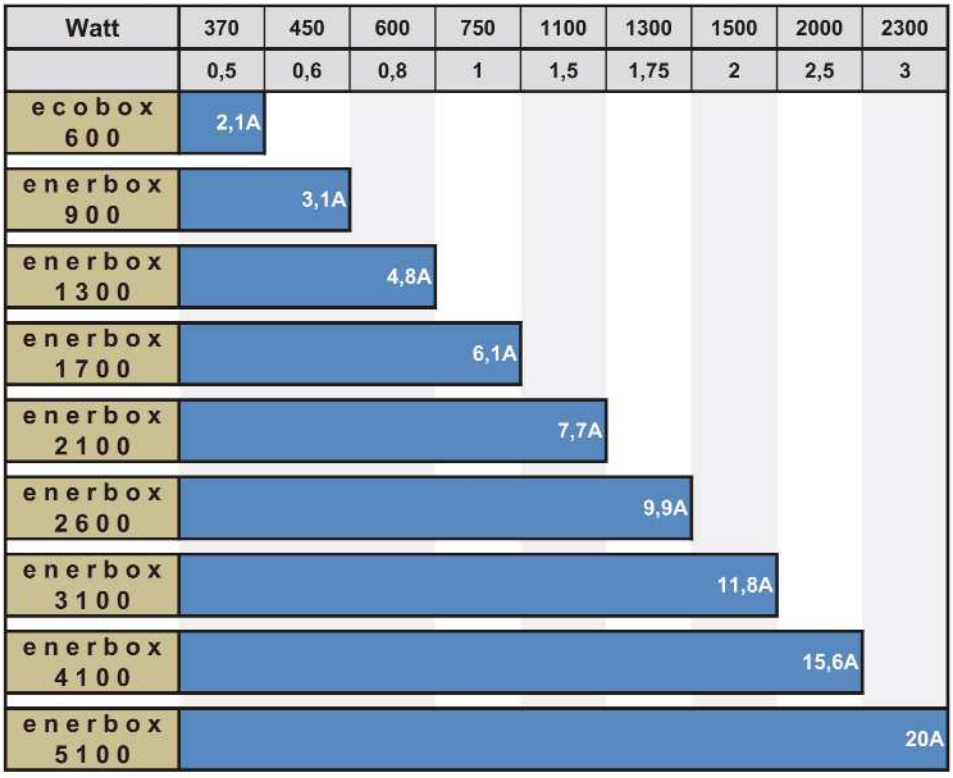
The pumps technical specifications are from page 44 to page 51.

IZBOR ENERBOX BACK-UP SUSTAVA
ENERBOX SELECTION

Tablica za izbor Enerbox back-up sustava prema potrebama rasvjete
Table for selection of the Enerbox on the base of lights



Tablica za izbor Enerbox back-up sustava prema potrebama elektromotora
Table for selection of the Enerbox on the base of the electric motors



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