

12 and 24V From 16 to 60A

YPOWER⁺

Shore-power units

A charger and an AC electrical panel Compact and modular

Made in France

Warranty 3 years







8 CRISTEC Shore-power unit \bigotimes * Unité d'énergie **Bluetooth** Distribution Charger 2 5 6 1 3 4) () AUX AUX Lithium AAAYPOWER 0 **CAN-BUS** Interface

Yachting | Marine | Mobile Industry | Renewable energy | Robotics

www.cristec.fr

YPOWER+

A charger and an AC electrical panel in a compact cabinet

The new CRISTEC shore-power units combine, in a single cabinet, the AC protection and distribution, as well as an automatic battery charger. The complete system meets the European standards in force and makes it possible to optimize size and assembly time. User protection consists of a two-pole differential RCD (Residual Current Device) and the distributions are made by 2 to 6 two-pole circuit breakers (Over Current Protection Device). The battery charger function is ensured by an HF switch-mode electronic card, stemming from the latest YPOWER⁺ generation.





Two-pole RCD 30mA 16A or 32A circuit breaker according to models

Protection

Silent operating CRISTEC offers shore-power units with natural

convection (without fan). This specificity gives them a completely silent operation and an optimized lifespan.



4 independent outputs *

The shore-power units have 4 independent charger outputs, including one dedicated to the engine battery. (*except models 12V 16A & 25A, 3 banks).



Worldwide use

Automatic detection of power supply network, from 90 to 265VAC and from 47 to 65Hz.



Adaptative charging

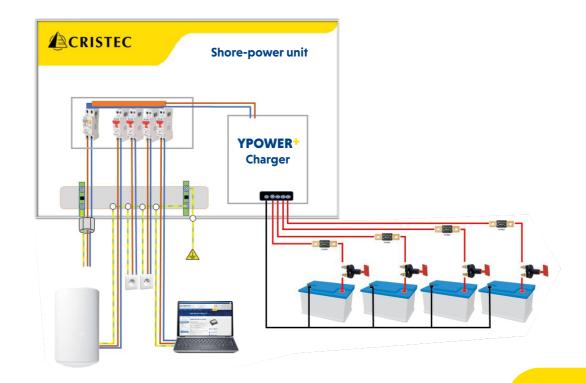
Custom-made and simultaneous recharge of 4 battery banks.

(*except models 12V 16A & 25A, 3 banks). YPOWER⁺ shore-power units are compatible with all types of batteries:

- Opened classic lead
- Sealed, gel or AGM
- Spiral sealed
- Lithium Iron Phosphate (LiFePO4) with BMS
- Other technologies: contact us.



The shore-power units are fitted with a CAN-Bus interface as standard (according to models).



Shore-power unit

YPOWER

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4 independent outputs *

CRISTEC

AAAD

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Range YPOWER+



	AC electrical panel				Battery charger			
Model	Main RCD	AC outputs	16A circuit breakers	10A circuit breakers	Voltage	Nominal current	Recommended battery bank*	Number of outputs
UEYPOPL/12-40/3D	30mA / 16A	3		3	12V	40A	300-500Ah	4
UEYPOPL/12-40/4D		4	-	4				
UEYPOPL/12-40/4D3	30mA / 32A		3	1				
UEYPOPL/12-60/3D	30mA / 16A	3		3		60A	500-700Ah	
UEYPOPL/12-60/4D		4	-	4				
UEYPOPL/12-60/4D3	30mA / 32A	4	3	1				

* Recommended battery capacity for lead type batteries, ratio C/10. Consult us for lithium batteries capacity.

Technical specifications

Ideal YPOWER: 337-40A Caing Caing Material Caing: - Finge and cover of 25 stinless itsel - Finge and cover of 25 stinless itsel - Finde and cover of 25 stinless it							
Kateial Citiz: 	Model	YPOWER+ 12V-40A	YPOWER+ 12V-60A				
Matrial : Finnie and cover of EZ alimpsking Pinning :: Andeid a laimminum heatinis Pinning :: Andeid a laimminum heatinis Dimensions (length, height, depth) / Weight :: Store XB /	Casing						
Faming Generation (sength, highth, depth / Weight) Generation (sength, highth, depth / Weight) Existing center distance Generation (Sength, highth, depth / Weight) Generation (Sength, highth, depth / Weight) Fixing center distance Generation (Sength, highth, depth / Weight) Generation (Sength, Generation (Sength, Generating from ADPC) Environment Forma-DDPC (Sength, Without condensation) Generation (Sength, Generating from ADPC) Relative humidity Generation (Sength, Generating from ADPC) Generation (Sength, Generating from ADPC) Requestly Generation (Sength, Generating from ADPC) Generation (Sength, Generating from ADPC) Requestly Generation (Sength, Generating from ADPC) Generation (Sength, Generating from ADPC) Requestly Generation (Sength, Generating from ADPC) Generation (Sength, Generating from ADPC) Requestly Generation (Sength, Generating from ADPC) Generation (Sength, Generating from ADPC) Requestly Generation (Sength, Generating from ADPC) Generation (Sength, Generating from ADPC) Requestly Generation (Sength, Generating from ADPC) Generation (Sength, Generating from ADPC) Requestly Generating from ADPC) Generation (Sength, Generating from ADPC) Requestly Geneating from ADPC) Generating f	Material	Frame and cover of EZ stainless steel					
Haing center distance 180 x 130 mm Fixing screw (well) ICA + x 15 round head screws Protection factor ICA Devising Impendance ICA Operating Impendance ICA Generating Impendance ICA Operating Impendance ICA Generating Impendance ICA Operating Impendance IC	Painting						
Hindy scew (vali) 4 × M5 round instance Protection factor IPPO INTERNATION INT	Dimensions (length, height, depth) / Weight	350 x 241 x 171mm - 7Kg					
Protection factor IP20 Environment Operating Temperature Generating Temperature Cooling Natural (fanless) Relative humidity Up to 70% (9% without condensation) Input Voltage 115VAC '4 / 250VAC '4 / 15% single-phase Frequency 4.4/8 7A Current consumed 280/13VAC 4.4/8 7A Current consumed 280/13VAC 4.4/8 7A Current consumed 280/13VAC 4.4/8 7A Output (integrature) Output 600.4/87 Current consumed 280/13VAC 4.4/8 7A Number of battery banks (integrature) MOSTE Splitten) Tompatitive terminal : 8AT Number of battery banks (integrature) Construct Statuse Charging curve 600.4/850W Charging curve (integrature) Construct on consumed 280/13VAC Rester type 3.3.0/22V Sealed lead as factory setting - Other selections by pushbutton : Spetter sequent on demand 280/13VAC Automotive fuces mounted 3.3.0/22V Automotive fuces mounted 3.3.0/22V Spatel tarbatst tansiden (toput polari	Fixing center distance	180 x 133mm					
Environment Second Secon	Fixing screw (wall)	4 x M5 round head screws					
Operating Temperature Genome 20°C to +60°C, devaling from 60°C Cooling Natural (fanless) Relative humidity Up to 70% (95% with out condensation) Input Input Voltage Genome 200C to +60°C, devaling from 60°C Requency Up to 70% (95% with out condensation) Frequency Genome 200C to +60°C, devaling from 60°C Current consumed 230/LISVAC Genome 200C to +15% single-phase Efficiency 20/25CA 4.4/8.7A Output 1000000000000000000000000000000000000	Protection factor	IP20					
Cooling Natural (familes) Relative humidity Up to 70% (95% without condensation) Input Input Voltage 0.115VAC ⁽ⁱⁿ / 230VAC + / 15% single-phase Frequency 0.00000000000000000000000000000000000	Environment						
Relative humidity Up to 70% (93% will-out condensation) Input Input Voltage ISVAC® / 230 VAC +/-15% single-phase Frequency 50/60Hz ® Current consumed 230/115VAC 2.7/5.6A 4.4/8.7A Efficiency >00% Output - - Number of battery banks 4 separate positive terminal :-8AT 1, +BAT 2 and +BAT 3 (integrated MOSET spillery) negative terminal :-8AT Nominal current (r/-7%) 400 / 570W 601/855W Parated power GOL750M 601/855W Rating furge unve Sealed lead as factory setting - Othesus (depending on model) (Seci, Absorption, Hoating and Refreise) 601/855W Eathery type Sealed lead as factory setting - Othersus (depending on model) (F400, F401, F402), DC power-suppy mode, etc. Specific requered or demand 4.4/8/30/32V (F400, F401, F402, DC power-suppy mode, etc. Specific requered or demand Atsendist minute pole-SAT Against transient input overvoltage by varistor (not covered by warranty) Against output polarity reversal by fuses Standards Specific requered or demand overheading Communication Magainst transient input overvoltage by varistor (not covered by warranty) Against output polarity reversal by fuses Standards Specific requered or demand overheading <t< th=""><th>Operating Temperature</th><th colspan="5">From -20°C to +60°C, derating from 60°C</th></t<>	Operating Temperature	From -20°C to +60°C, derating from 60°C					
Input Voltage 115VAC ¹⁰ / 230VAC +/-15% single-phase Frequency 50/60Hz ¹⁰ Current consumed 230/115VAC 2.7/5.6A 4.4/8.7A Efficiency > 90% Output	Cooling	Natural (fanless)					
Voltage 115VAC ¹⁷ / 230VAC + / 15% single-phase Frequency 50/-01 P.° Current consumed 280/115VAC 4.4/8.7A Efficiency > ··· Output > ··· Output - ··· Number of battery banks A separate positive terminals : -BAT E, +BAT 1, +BAT 2 and +BAT 3 (integrated MOSEFE 5) (positive 1) negative terminal : -BAT E, +BAT 1, +BAT 2 and +BAT 3 (integrated MOSEFE 5) (positive 1) negative terminal : -BAT E, +BAT 1, +BAT 2 and +BAT 3 (integrated MOSEFE 5) (positive 1) negative terminal : -BAT E, +BAT 1, +BAT 2 and +BAT 3 (positive 1) negative terminal : -BAT E, +BAT 1, +BAT 2 and +BAT 3 (positive 1) negative terminal : -BAT E, +BAT 1, +BAT 2 and +BAT 3 (positive 1) negative terminal : -BAT E, +BAT 1, +BAT 2 and +BAT 3 (positive 1) negative terminal : -BAT E, +BAT 1, +BAT 2 and +BAT 3 (positive 1) negative terminal : -BAT E, +BAT 1, +BAT 2 and +BAT 3 (positive 1) negative terminal : -BAT E, +BAT 1, +BAT 2 and +BAT 3 (positive 1) negative terminal : -BAT E, +BAT 1, +BAT 2 and +BAT 3 (positive 1) negative terminal : -BAT E, +BAT 1, +BAT 2 and +BAT 3 (positive 1) negative terminal : -BAT E, +BAT 1, +BAT 2 and +BAT 3 (positive 1) negative terminal : -BAT E, +BAT 1, +BAT 2 and +BAT 3 (positive 1) negative terminal : -BAT E, +BAT 1, +BAT 2 and +BAT 3 (positive 1) negative terminal : -BAT E, +BAT 1, +BAT 2 and +BAT 3 (positive 1) negative terminal : -BAT E, +BAT 2, +	Relative humidity	Up to 70% (95% with	hout condensation)				
Frequency G000000000000000000000000000000000000	Input						
Current consumed 230/LISVAC 2.7/5.6A 4.4/8.7A Efficiency >00000000000000000000000000000000000	Voltage	115VAC ⁽¹⁾ / 230VAC +/-15% single-phase					
Efficiency >00% Curput Aumber of battery banks A separate positive terminals: +BAT E, +BAT 1, +BAT 2 and +BAT 3 (ntegrated MOSFET splitter) 1 negative terminal: -BAT Each bank and bused individual val delivers the rated current Nominal current (+/-7%) 60A/855W @ rated power 60A/855W Charging curve 60A/855W Charging curve 60A/855W Battery type Sealed lead as factory setting -O ther selections by publicuton : (Boost, Absorption, Floeropeus or otherand) Battery type Sealed lead as factory setting -O ther selections by publicuton : (Boott, Absorption, Floeropeus or otherand) Excitical protections 4 x 30A/32V (F400, F401, F402, F403) 4 x 30A/32V (F400, F401, F402, F403) Standards Against transing input overvised by variantly Adapted by variantly	Frequency	50/60Hz ⁽¹⁾					
Cutput Automotive fuses mounted in series in minus pole -BAT Standards Automotive fuses mounted in series in minus pole -BAT A separate positive terminals: +BAT E, +BAT I, +BAT 2 and +BAT 3 (integrated MOSFET splitter) 1 negative terminal: -BAT Bartery type 40A/570W 60A/855W Charging curve 60A/850W 60A/855W Bartery type 60A/850W 60A/850W Bartery type Charging curve selection by internal push-button, Bluetooth or CAN-Bus (depending on model) (Boost, Absorption, Floating and Refresh) Bartery type Sealed lead as factory setting - Other selections by pushbutton : Gel, AGM, acitory det as factory setting - Other selections by and AdV32V (F400, F401, F402, F403) Electrical protections: (F400, F401, F402, F402) (F400, F403, F402, F403) Standards Magainst transient input overvoltage by varistor (not covered by warranty) Against abnormal overheating or verteating	Current consumed 230/115VAC	2.7/5.6A	4.4/8.7A				
Number of battery banks 4 separate positive terminals : +BAT E, +BAT I, +BAT 2 and +BAT 3 (integrated MOSFET splitter) I negative terminal : -BAT Each bank can be used individually and delivers the rated current Nominal current (+/-796) er rated power 60A/855W Charging curve 60A/855W Charging curve Charging curve selection by internal push-button, Bluetooth or CAN-Bus (depending on model) (Boost, Absorption, Floating and Refresh) Battery type Sealed lead as factory setting - Other selections by pushbutton : Gel, AGM, dationum lead, LifePO4, DC power-supply mode, etc. Specific request on demand Automotive fuses mounted in series in minus pole -BAT 3 x 30A/32V (F400, F401, F402, F403) Electrical protections Against transient input overvoltage by variator (not covered by warranty) Against output polarity reversal by fuses Against output polarity reversal by fuses Against abnormal current setting Standards Communication CL / EMC Determinal current CAN-Bus / Blueto-Bas / Blue	Efficiency	> 90%					
Number of battery banks Charging curve selection by internal push-button, luegative terminal :-BAT Each bank can be used individual and delivers the rated current cu	Output						
e rated power OUAY 35.0W e rated power OUAY 35.0W Charging curve Charging curve selection by internal push-button, Bluetooth or CAN-Bus (depending on model) (Boost, Absorption, Floating and Refresh) Battery type Charging curve selection by internal push-button : Gel, AGM, calcium lead, LiFePO4, DC power-supply mode, etc. Specific request on demand Automotive fuses mounted in series in minus pole -BAT 3 x 30A/32V (F400, F401, F402) 4 x 30A/32V (F400, F403, F403) Electrical protections Against transient input overvoltage by variator (not covered by warranty) Against output polarity reversal by fuses Against abnormal overheating Standards Cer< EMC NF EN61000-6-1, NF EN61000-6-2 Communication CAN-Bus / Bluetoth as standard	Number of battery banks	(integrated MOSFET splitter) 1 negative terminal : -BAT					
Charging curve (Boost, Absorption, Floating and Refresh) Battery type Sealed lead as factory setting - Other selections by pushbutton : Gel, AGM, calcium lead, LiFePO4, DC power-supply mode, etc. Specific request on demand Automotive fuses mounted in series in minus pole - BAT 3 x 30A/32V (F400, F401, F402) Electrical protections 4 x 30A/32V (F400, F401, F402) Electrical protections Against transient input overvoltage by varistor (not covered by warranty) Against output polarity reversal by fuses Against abnormal overheating Standards CE / EMC Ce / EMC NF EN61000-6-1, NF EN61000-6-2 Communication CAN-Bus / Bluetorh as standard		40A/570W	60A/855W				
Battery type Gel, AGM, calcium lead, LiFePO4, DC power-supply mode, etc. Specific request on demand Automotive fuses mounted in series in minus pole -BAT 3 x 30A/32V (F400, F401, F402) 4 x 30A/32V (F400, F401, F402, F403) Electrical protections Image: Comparison of the text of text	Charging curve						
in series in minus pole -BAT (F400, F401, F402) (F400, F401, F402, F403) Electrical protections Against transient input overvoltage by varistor (not covered by warranty) Against output polarity reversal by fuses Against aboutput polarity reversal by fuses Standards CE / EMC NF EN61000-6-1, NF EN61000-6-2 Communication CAN-Bus / Blue to the as standard	Battery type	Gel, AGM, calcium lead, LiFePO4, DC power-supply mode, etc.					
Against transient input overvoltage by varistor (not covered by warranty) Against output polarity reversal by fuses Against abnormal overheating Standards CE / EMC NF EN61000-6-1, NF EN61000-6-2 Communication CAN-Bus / Bluetooth as standard							
Against output polarity reversal by fuses Against abnormal overheating Standards CE / EMC NF EN61000-6-2 Communication CAN-Bus / Bluetooth as standard	Electrical protections						
CE / EMC NF EN61000-6-1, NF EN61000-6-2 Communication CAN-Bus / Bluetooth as standard		Against output polarity reversal by fuses					
Communication CAN-Bus / Bluetooth as standard	Standards						
CAN-Bus / Bluetooth as standard	CE / EMC	NF EN61000-6-1, NF EN61000-6-2					
	Communication						
Options	CAN-Bus / Bluetooth as standard						
	Options						
Temperature probe Output voltage compensation -18mV/°C	Temperature probe	Output voltage compensation -18mV/°C					

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 $^{\scriptscriptstyle (1)}$ Consult CRISTEC for any use at 115VAC/60Hz



