

From 12 to 48V | From 12 to 60A

YPOWER+

Battery chargers
Innovative and sustainable



Silent



4 outputs



Bluetooth



Thermal withstand



CAN-BUS interface



Plug & Play



YPOWER+

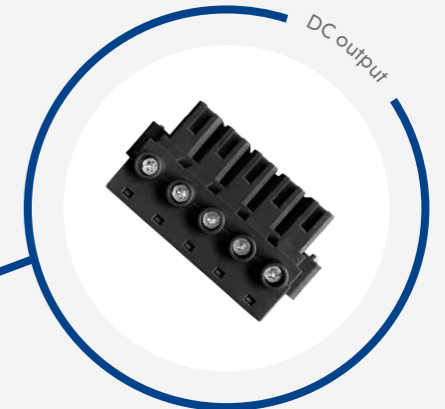
Optimal made-to-measure charging for a longer lifespan

Founded in 1983, CRISTEC - CReation, INnovation Scientific and TEchnical – is the specialist in energy conversion. CRISTEC offers expertise on an international scale with a distribution network present in more than 50 countries. CRISTEC is proud to offer you the assets of its sixth generation HF charger range, YPOWER+, having already sold more than 200,000 units throughout the world.

From 12 to 48V From 12 to 60A



Plug & Play



Plug & Play



4 independent outputs*



Bluetooth



Made in France



Warranty 3 years



Silent operating

CRISTEC is the only manufacturer to offer a 12V 60A charger with natural convection (without fan). This specificity gives the YPOWER+ chargers a completely silent operation and an optimized lifespan. It is therefore possible to install them anywhere on board, including under a berth.



Low energy bluetooth

The chargers are equipped with a Bluetooth Low Energy (BLE), variant of "classic" Bluetooth (except OE version – first fit Original Equipment). The major advantage of BLE is its low power consumption (it consumes half as much as a classic Bluetooth).



4 independent outputs*

The YPOWER+ chargers are the only chargers having 4 independent outputs, including one dedicated to the engine battery. (*Except models 12V 16A & 25A, 24V 12A).



Thermal withstand

Chargers have full charge up to +60°C with no loss, resistant to harsh environments. They can be installed in the engine room thanks to ISO8846 compliance – Protection against ignition of flammable gases.



5-stage charging profile

- Boost: charges batteries to 80% of full charge
 - Absorption: slowly completes remaining charge to 100%
 - Floating: maintains battery charge
 - Automatic refresh: prevents sulphation and revitalizes batteries, selectable by internal pushbutton
 - Reboost: new automatic Boost phase if DC consumers and the state of batteries so require.
- In addition, DC power-supply mode is also available.



Easy connection

Plug & Play connection, secure, simple and fast without opening the charger. AC and DC connectors included (except OE version – first fit Original Equipment).



Adaptative charging

Custom-made and simultaneous recharge of 4 battery banks (except models 12V 16A & 25A, 24V 12A - 3 banks). YPOWER+ chargers 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.



Worldwide use

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



Remote control

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

Part Number	YPO12-16STPL (OEPL)	YPO12-25STPL (OEPL)	YPO24-12STPL (OEPL)	YPO12-40STPL (OEPL)	YPO12-60STPL (OEPL)	YPO24-20STPL (OEPL)	YPO24-30STPL (OEPL)
Model*	12V/16A	12V/25A	24V/12A	12V-40A	12V-60A	24V-20A	24V-30A
Recommended battery bank**	100-200Ah	200-300Ah	100-200Ah	300-500Ah	500-700Ah	200-300Ah	300-500Ah
Input							
Voltage	From 90 to 265VAC single-phase automatic						
Frequency	From 47 to 65Hz automatic						
Current consumed 230/115VAC	1.1/2.2A	1.7/3.4A	1.7/3.4A	2.7/5.6A	4.4/8.7A	2.9/5.9A	4.5/8.8A
Recommended power for a generator	280W	435W	420W	700W	1050W	700W	1050W
Power factor	1						
Efficiency	> 90%						
Input fuse	T6.3A/250V - SCHURTER Ref. 0001.1032 (F101)			T15A/250V - 6.3x32 (F101)			
Output							
Number of battery banks	3 separate positive terminals: +BAT E, +BAT 1 and +BAT 2 (integrated MOSFET splitter) 1 negative terminal: -BAT Each bank can be used individually and delivers the rated current			4 separate positive terminals: +BAT E, +BAT 1, +BAT 2 and +BAT 3 (integrated MOSFET splitter) 1 negative terminal: -BAT Each bank can be used individually and delivers the rated current			
Nominal current (+/-7%) @ rated power	16A/228W	25A/356W	12A/342W	40A/570W	60A/855W	20A/570W	30A/855W
Charging curve	Charging curve selection by internal push-button, Bluetooth or CAN-Bus (Boost, Absorption, Floating and Refresh)						
Battery type	Sealed lead as factory setting - Gel, AGM, calcium lead, LiFePO4, DC power-supply mode, etc. Specific request on demand						
Boost voltage for sealed lead battery (factory setting)	14.4VDC		28.8VDC		14.4VDC		28.8VDC
Floating voltage for sealed lead battery (factory setting)	13.8VDC		27.6VDC		13.8VDC		27.6VDC
Peak to peak ripple and noise	< 2% (at rated conditions)						
Automotive fuses mounted in series in minus pole -BAT	1 x 20A/32V (F400)	1 x 30A/32V (F400)	1 x 15A/32V (F400)	3 x 30A/32V (F400, F401, F402)	4 x 30A/32V (F400, F401, F402, F403)	1 x 30A/32V (F400)	2 x 30A/32V (F400, F401)
Environment							
Cooling	Natural (fanless)						
Sound level	0						
Operating T° at 230VAC	From -20°C to +60°C, derating from 60°C						
Storage T°	From -20°C to +70°C						
Relative humidity	up to 70% (95% without condensation)						
Casing							
Material	Casing comprises 3 parts: Aluminium sink frame / Thermoplastic body / Aluminium clasp						
Dimensions (length, height, depth) / Weight	236 x 180 x 96mm / 2kg		289 x 195 x 106mm / 3.5kg		289 x 195 x 106mm / 3.7kg		289 x 195 x 106mm / 3.6kg
Fixing center distance	219 x 155mm			272 x 170mm			
Fixing screw (wall)	4 M5 round head screws						
Protection factor	IP22						
Electronic card protection	Water-repellent varnish (marine environment)						
Standards							
CE declaration of conformity	Available on request						
CE / EMC	EN61204-3						
CE / Security	EN60335-2-29, ISO8846						
Protections							
Against transient input overvoltage by varistor (Not covered by warranty) Against output polarity reversal by fuses Against short-circuits and output overloads Against abnormal overheating							
Communication							
CAN-Bus (according to models) / Bluetooth as standard (optional on OE version)				CAN-Bus / Bluetooth as standard (optional on OE version)			
Options							
Temperature probe / Bluetooth (OE versions)							

* Versions 24V 40A, 36V 20A & 48V 15A pending

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