

12 & 24V

From 12 to 60A

Battery chargers

YPOWER



Silent



4 outputs



Universal
alternative input



No derating



CAN-BUS
interface



Plug & Play

The **YPOWER** battery chargers are part of the 6th generation of HF chargers designed by **CRISTEC**. They have become a true reference, especially among professionals. Since 2016, the entire range is equipped with plug & play connectors for AC input and DC output (plug & play connectors provided* - except for OE models). Fanless (except for the 24V/30A model) ensuring completely silent operation, while still delivering unmatched thermal performance (nominal charging up to +60°C without loss).



Part Number	YPO12-16ST	YPO12-25ST	YPO24-12ST	YPO24-20ST	YPO24-30ST
Model	12V/16A	12V/25A	24V/12A	24V/20A	24V/30A
Recommended battery bank (Pb)	100-200Ah	200-300Ah	100-200Ah	200-300Ah	300-500Ah
Input					
Voltage	From 90 to 265VAC single-phase automatic				
Frequency	From 47 to 65Hz automatic				
Input current consumption 230/115VAC	1,1/2,2A	1,7/3,4A	1,7/3,4A	2,9/5,9A	4,5/8,8A
Recommended power for a generator	280W	435W	420W	700W	1050W
Power factor	1				
Removable input fuses	T6,3A/250V SCHURTER MST 250 Réf. 0034.6623 (F101)		T6,3A/250V SCHURTER MST 250 Réf. 0034.6623 (F101)		T15A/250V 6,3x32 (F101)
Output					
Number of battery banks	3 (including one for the engine battery) : +BAT E, +BAT 1 et +BAT 2 (integrated Mosfet splitter) Each bank can be used individually and deliver the rated current				
Total rated current (+/-7%) Rated power	16A/228W	25A/356W	12A/342W	20A/570W	30A/855W
Charging curve	IU or IUoU through internal dip switches (Boost, Absorption and Floating – factory setting) - Selectable automatic Refresh				
Battery type	Lead sealed as factory setting - Other choices through internal setting (Calcium Lead, gel, AGM, LiFePO4, Opened, etc.) - Specific requests : consult us				
Boost voltage	14,4VDC for Lead sealed battery (factory setting)		28,8VDC for Lead sealed battery (factory setting)		
Floating voltage	13,8VDC for Lead sealed battery (factory setting)		27,6VDC for Lead sealed battery (factory setting)		
Automotive fuse in the minus pole -BAT	1 x 20A/32V (F500)	1 x 30A/32V (F500)	1 x 15A/32V (F500)	1 x 25A/32V (F500)	2 x 20A/32V (F500, F501)
Environment					
Cooling	Natural (fanless) - Electric fan controlled in temperature and current for 12V/60A and 24V/30A models				
Sound level	0		0		< 50dBa à 1m
Operating temperature (230VAC)	From -20°C to +60°C, derating from 60°C. Above 65°C, automatic charger switch off, automatic restart when temperature decreases				
Storage temperature	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 96 mm / 2,1 kg		236 x 180 x 96 mm / 2,1 kg		289 x 195 x 106 mm / 3,5 kg
Fixing center distance	219 x 155mm		219 x 155 mm		272 x 170 mm
Fixing screw (wall)	4 M5 round screws				
Protection factor	IP22				
Standards					
CE / CEM	EN61204-3				
CE / Security - Others	EN60335-2-29 - J1171/ISO8846 for model 12V/40A, ABYC A-31, Pending UL and CSA				
Protections					
Against leaking input surges by VDR rupture (voltage dependent resistor) - Not covered by warranty. Against output polarity reversal by fuse rupture (removable automotive type). Against short-circuit and surge. Against abnormal overheating by cutting off the charger (internal temperature probe - automatic restart).					
Options					
Temperature probe	Output voltage compensation : -18mV/°C		Output voltage compensation : -36mV/°C		
Communication	CAN-BUS interface				

YPOWER battery charger options	Temperature sensor for battery compartment	Charger ON/OFF remote control	CAN-BUS and relays board
Item part number	STP-NEW-2.8 / STP-NEW-5.0	G-ON/OFF-R	See specific datasheet