

Battery chargers

HPOWER DNV



High power



No derating



AC universal input



3 outputs



CAN-BUS interface



Lithium ready

PRESENTATION

Specialized in the design of automatic battery chargers for more than 30 years, CRISTEC is proud to offer you high quality battery chargers for the toughest conditions for professional and recreational purposes : **HPOWER**. They offer unwavering reliability thanks to a proven HF technology, for professional use in severe environmental conditions.

DNV CERTIFIED VERSION

Integrated 2.4' touch-screen control panel and relays board. Certification : **TAE 00003JC**.

PERFORMANCE

Up to +50°C ambient with no derating allowing rated charge for intensive use in hot or confined place.

EASY AND ROBUST INSTALLATION

Aluminum housing treated to withstand marine environment and a secure wiring compartment.

PARALLEL OPERATION

The chargers can be connected in parallel to increase the charging power : up to 4 units (balancing through Master-Slave function).

3 ISOLATED BATTERY BANKS

Simultaneous recharge of 3 independent battery banks, without any current limitation.

CAN-BUS INTERFACE

A serial BUS-CAN interface allows real-time control and configuration of **HPOWER** chargers.

LITHIUM READY

They provide a 5-state charge curve for fast and complete charging of all types of batteries : open and sealed Lead-acid, Calcium Lead-acid, AGM, Gel, Lithium Ion, etc.

Model	12V / 90A	24V / 45A	24V / 60A	24V / 80A	24V / 100A
Part number	HPO12-90-CERT	HPO24-45-CERT	HPO24-60-CERT	HPO24-80-CERT	HPO24-100-CERT
Recommended battery bank (Pb)*	600 - 1200Ah	300 - 600Ah	500 - 800Ah	700 - 1000Ah	800 - 1300Ah
INPUT					
Voltage	From 90 to 265VAC single-phase automatic				
Frequency	From 47 to 65Hz automatic				
Input current consumption 230/115VAC	6,0A/16,0A		9,0A/20,0A	11,0A/20,0A	15,0A/30,0A
Recommended power for a generator	1600W		2100W	2800W	3520W
Power factor	1				
Efficiency	87% typical				
Removable input fuses	2 x 20A 250VAC (6,3 x 32) (F1/F2)		2 x 25A 250VAC (6,3 x 32) (F1/F2)		2 x 32A 250VAC (6,3 x 32) (F1/F2)
OUTPUT					
Number of battery banks	3 (including one for the engine battery) : +BAT E, +BAT 1 et +BAT 2 (integrated isolator), 1 negative -BAT. Each bank can be used individually and deliver the rated current				
Connection on threaded rods	M6				M8
Rated current / power	90A/1282W	45A/1282W	60A/1710W	80A/2280W	100A/2850W
Charging profile	IU or IUoU through internal dip switches (Boost, Absorption and Floating – factory setting). Selectable automatic Refresh				
Battery type	Lead-sealed as factory setting - Gel, AGM, Calcium Lead, Lithium, DC power-supply mode, etc. Specific request on demand				
Boost voltage	14,4VDC as factory setting for Lead-sealed	28,8VDC as factory setting for Lead-sealed			
Floating voltage	13,8VDC as factory setting for Lead-sealed	27,6VDC as factory setting for Lead-sealed			
Regulation tolerance before output diode and fuse	< 1% (at rated conditions)				
Peak to peak ripple	< 1% (at rated conditions)				
Automotive fuse in the minus pole -BAT	4 x 30A/32V	2 x 30A/32V	3 x 25A/32V	4 x 25A/32V	4 x 30A/32V
ENVIRONNEMENT					
Cooling	Electric fan controlled in temperature and current				
Sound level	< 50 dBa at 1m				
Operating temperature	Rated charge from -20°C to +50°C, derating above 50°C. Automatic charger switch off above 60°C; automatic restart when temperature decreases				
Storage temperature	From -20°C à +70°C				
Relative humidity	Up to 96 % without condensation				
CASING					
Material	Painted Aluminium				
Dimensions (length, height, depth)	270 x 360 x 130 mm				270 x 410 x 130 mm
Weight	6,8 kg				9,0 kg
2.4" remote color touch-screen control panel ⁽²⁾	Integrated on the front panel				
Fixing screw (wall)	4 x M6 round screws				
Protection factor	IP23				
PCB protection	Water-repellent varnish				
STANDARDS					
CE / CEM	EN61204-3				
CE / Sécurité	EN60335-2-29				
PROTECTIONS					
	Against leaking input surge by VDR (Voltage Dependant Resistor) - Not covered by warranty				
	Against output polarity reversal by fuse rupture				
	Against short-circuit and surge				
	Against abnormal overheating by cutting off the charger				
OPTIONS					
Temperature probe ⁽¹⁾	Output voltage compensation (12V : -18mV/°C • 24V : -36mV/°C) 2.8m : STP-UNI-2.8 • 5m : STP-UNI-5.0				

(*) Recommended battery capacity Lead-sealed, C/10 ratio.
For Lithium batteries, please consult us

