

12 & 24V From 30 to 100A

# Battery chargers **HPOWER**

Made in France









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.

### PERFORMANCE

Up to  $+50^{\circ}$ 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).

Leisure & commercial marine | Mobile Industry | Renewable energy | Robotics

### **3 ISOLATED BATTERY BANKS**

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

### **CAN-BUS INTERFACE**

CRISTEC

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 Leadacid, Calcium Lead-acid, AGM, Gel, Lithium Ion, etc.

### **DNV CERTIFIED VERSION**

With integrated touch-screen control panel and relays board. Please consult us.



CRISTEC



AC universal input



3 outputs



CAN-BUS interface



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# Range HPOWER



Model	12V / 90A	24V / 45A	24V / 60A	24V / 80A	24V / 100A
Part number	HPO12-90	HPO24-45	HPO24-60	HPO24-80	HPO24-100
Recommended battery bank (Pb)*	600 - 1200Ah	300 - 600Ah	500 - 800Ah	700 - 1000Ah	800 - 1300Ah
INPUT					
Voltage		From 9	0 to 265VAC single-phase auto	matic	
Frequency	From 47 to 65Hz automatic				
nput 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) 2 x 25A 250VAC (6,3 x 32) (F1/F2) (F1/F2)				2 x 32A 250VAC (6,3 x 32 (F1/F2)
OUTPUT	(, 2).		(, -	,	(1212)
Number of battery banks	3 (including one for the engine	e battery) : +BAT E, +BAT 1 et +BAT 2 (ii	ntegrated isolator), 1 negative -BAT.	Each bank can be used individual	ly and deliver the rated current
Connection on threaded rods		Ма	5		M8
Rated current / power	90A/1282W	45A/1282W	60A/1710W	80A/2280W	100A/2850W
Charging profile	IU or IU	JoU through internal dip switches (Bo	post, Absorption and Floating – fact	ory 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	< 1% (at rated conditions)				
output diode and fuse					
Peak to peak ripple Automotive fuse	<1% (at rated conditions)				
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	,	Ele etcia fe		d	
Cooling Sound level	Electric fan controlled in temperature and current < 50 dBa at 1m				
Operating temperature	< 30 GBa at 201 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					
Relative humidity	From -20°C à +70°C Up to 96 % without condensation				
CASING		Ū			
Material			Painted Aluminium		U
Dimensions (lenght, height, depth)					270 x 410 x 130 mm
Weight	6,8 kg			9,0 kg	
Fixing screw (wall)	o, o kg 9,0 kg				
Protection factor	4 x Mo round screws				
	IP23 Water-repellent varnish				
PCB protection			water-repellent varnish		
STANDARDS			51//120//2		u -
CE / CEM	EN61204-3				
CE / Sécurity			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 abno	rmal overheating by cutting of	the charger	
OPTIONS					
Temperature probe <sup>(1)</sup>	Output voltage compensation (12V : -18mV/°C • 24V : -36mV/°C) 2.8m : STP-UNI-2.8 • 5m : STP-UNI-5.0				
Parallel mounting	KIT-HPO-LINK : up to 4 units with real time balancing feature				
2.4" remote color touch-screen control panel <sup>(2)</sup>		UNI-DISPLAY-R : also av	ailable integrated on the front p	oanel, please consult us	

