

















Innovative battery chargers HPOWER

New generation

Robustness

Unrivalled performance

Flexible and user-friendly

LIN & CAN-BUS interface

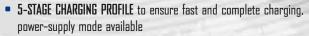


PRESENTATION

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.

PERFORMANCE







• FULL POWER up to +50°C ambient with no derating allowing rated charge for intensive use in hot or confined place



- 3 ISOLATED BATTERY BANKS, with no current limitation
- SUITABLE FOR ALL BATTERY TYPES : flooded, Lead-sealed, Calcium-Lead, AGM, gel, Lithium, etc.
- INCREASE battery life





WORLDWIDE USE

- 90-265VAC/47-65HZ auto-ranging
- RATED OPERATION REGARDLESS the available AC voltage including from a genset
- MEMORY FUNCTION: in case of unstable AC network the charger will not reset to prevent battery overcharging
- BEST IN CLASS PROTECTION: removable fuses and varistor, coated circuit board for marine environment, automatic burn-in test
- UL-1236 AND CSA 22.2-107.2 standards compliant (pending)



ERGONOMICS

- FAST AND SECURE INSTALLATION through made-to-measure external wall fixing device
- LIGHTWEIGHT RUGGED Aluminium casing with special coating for marine environment
- OPTIMAL ACCESSIBILITY: specific secured connection compartment
- READABILITY COMFORT Dedicated LEDs and icons on the front



BUILT-IN FUNCTIONALITIES



- CAN-BUS INTERFACE for data transfer
- PARALLEL OPERATION: up to 4 chargers through LIN-BUS interface
- EXTERNAL TEMPERATURE PROBE to monitor battery compartment
- 2.5" COLOR TOUCH-SCREEN control panel (option)
- ON/OFF, default /battery low-voltage relays and automatic voltage drop compensation (option)
- EASILY PROGRAMMABLE for a variety of applications and specific settings



DNV APPROVED

With integrated optional boards : touch-screen control panel and relays (pending)











Innovative automatic battery chargers HPOWER RANGE





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Part number	HPO12-80	HPO24-45	HPO24-60	HPO24-80	HPO24-100
Model	12V/80A	24V/45A	24V/60A	24V/80A	24V/100A
Recommended battery bank		300-600Ah	500-800Ah		800-1300Ah
INPUT					
Voltage	From 90 to 265VAC single-phase automatic				
Frequency	From 47 to 65Hz automatic				
Input current consumption 230/115VAC	6.0A/12.0A	6.8A/13.6A	9.0A/18.1A	12.0A/24.1A	15.1A/30.2A
Recommended power for a generator	1400W	1600W	2100W	2800W	3520W
Power factor			1		
Efficiency	87% typical				
Removable input fuses	2 x 16A 250Vac (6.3x32) (F1/F2)		2 x 25A 250Vac (6.3x32) (F1/F2)	2 x 32A 250Vac (6.3x32) (F1/F2)	
OUTPUT					
Number of battery banks	3 (including one for the engine battery) : +BAT E, +BAT 1 et +BAT 2 (integrated) 1 negative -BAT Each bank can be used individually and deliver the rated current				
Connection on threaded rods	M8	M	5		M8
Rated current / power	80A/1140W	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, LiFePO4, 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 25A/32V	2 x 30A/32V	3 x 25A/32V	4 x 25A/32V	4 x 30A/32V
ENVIRONMENT					
Cooling		Electric f	an controlled in temperature a	nd 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 to +70°C				
Relative humidity	Up to 96% without condensation				
		,	op to 90 % without condensation	л	
CASING					
Material	Painted Aluminium				
Dimensions (lenght, height, depth) / Weight	270 x 359.5 x 129.5 mm / 6.2 kg	270 x 359.5 x 129.5 mm / 5.2 kg		270 x 409.5 x 129.5 mm / 7.5 kg	
Fixing screw (wall)	4 x M6 round screws. Mounting kit + securing screws				
Protection factor	IP23				
PCB protection	Water-repellent varnish				
STANDARDS					
CE / EMC	EN61204-3				
CE / Security	EN60335-2-29				
PROTECTIONS					
TRUILUIIUNU	Against leaking input surge by VDR (Voltage Dependant Resistor) - Not covered by warranty				
	Against leaking input surge by YDR (Voltage Dependant Resistor) - Not covered by warranty Against output polarity reversal by fuse rupture				
	Against output polarity reversal by fuse rupture Against short-circuit and surge				
	Against short-circuit and surge Against abnormal overheating by cutting off the charger				
OPTIONS		Against abin		e c.i.a.gci	
טו זוטונס	Output voltage				
Temperature probe	Output voltage compensation : $-36mV/^{\circ}C$ Output voltage compensation : $-36mV/^{\circ}C$				
Parallel mounting	Up to 4 units with real time balancing feature				
Remote color touch-screen control panel	HPO-DISPLAY-R				
Isolated CAN-BUS interface			Fully integrated as standard		









