



CRISTE

Automatic battery charges

## 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

- 5-STAGE CHARGING PROFILE to ensure fast and complete charging. power-supply mode available
- 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



#### www.cristec.fr



# Innovative automatic battery chargers **HPOWER RANGE**



Part number	HPO12-90	HPO24-45	HPO24-60	HPO24-80	HPO24-100	
Model	12V/90A	24V/45A	24V/60A	24V/80A	24V/100A	
Recommended battery bank	700-1200Ah	300-600Ah	500-800Ah	700-1000Ah	800-1300Ah	
INPUT						
Voltage		From	90 to 265VAC single-phase auto	omatic		
Frequency	From 47 to 65Hz automatic					
Input current consumption 230/115VAC	6.0A/16.0A	6.0A/16.0A	9.0A/20.0A	11.0A/20.0A	15.0A/30.0A	
Recommended power for a generator	1600W	1600W	2100W	2800W	3520W	
Power factor	1					
Efficiency			87% typical			
Removable input fuses	2 x 20A 250Vac (6.3x32)(F1/F2)		2 x 25A 250Vac (6.3x32) (F1/F2)		2 x 32A 250Vac (6.3x32) (F1/F2)	
OUTPUT					1	
Number of battery banks		3 (including one for the engine Each bank can b	battery) : +BAT E, +BAT 1 et +BA e used individually and deliver		BAT	
Connection on threaded rods		M6			M8	
Rated current / power	90A/1282W	45A/1282W	60A/1710W	80A/2280W	100A/2850W	
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 - Gel, AGM, Calcium Lead, LiFePO4, DC power-supply mode, etc. Specific request on demand					
Boost voltage	14.4VDC as factory setting for Lead-sealed	14.4VDC as factory 28.8VDC as factory setting for Lead-sealed				
Floating voltage	13.8VDC as factory setting for Lead-sealed	as factory 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	3 x 35A/32V	2 x 30A/32V	3 x 25A/32V	3 x 35A/32V	4 x 30A/32V	
ENVIRONMENT						
Cooling		Electric fa	an controlled in temperature an	nd current		
		Electric fa	an controlled in temperature ar < 50 dBa at 1m	nd current		
Cooling Sound level	Rated charge from -20°C		< 50 dBa at 1m		when temperature decreases	
Cooling Sound level Operating temperature	Rated charge from -20°C	Electric fa to +50°C, derating above 50°C. /	< 50 dBa at 1m Automatic charger switch off ab		when temperature decreases	
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F-HPO-o2-B Specifications may change without notice. Please contact us.

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