















HPOWER





New generation Ruggedness

Unrivalled performance Flexible and user-friendly LIN & CAN-BUS interface

12 & 24V - 48V pending

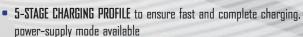


PRESENTATION

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 LISE

- 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 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
- OPTION: 2.5" colour touch-screen control panel

BUILT-IN FUNCTIONALITIES



- CAN-BUS INTERFACE for data transfer (as standard)
- PARALLEL OPERATION: up to 4 chargers through LIN-BUS interface
- EXTERNAL TEMPERATURE PROBE to monitor battery compartment (option)
- ON/OFF, default /battery low-voltage relays and automatic voltage drop compensation (option)
- **EASILY PROGRAMMABLE** for a variety of applications and specific settings (including charge profile)



DNV-GI VFRSIAN

 With integrated touch-screen control panel, optional board and relay (pending). Please consult us











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	600-1200Ah	300-600Ah	500-800Ah	700-1000Ah	800-1300Ah	
INPUT						
Voltage		From	90 to 265VAC single-phase aut	omatic		
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	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						
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	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, LiFePO4, DC power-supply mode, etc. Specific request on demand					
Boost voltage	14.4VDC as factory setting for Lead-sealed	28 8VI) C as tactory 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	
ENVIRONMENT						
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 to +70°C					
Relative humidity	Up to 96% without condensation					
CASING						
Material	Painted Aluminium					
Dimensions (lenght, height, depth) / Weight	270 x 360 x 130 mm / 6.8 kg 270 x 410 x 130 mm /				270 x 410 x 130 mm / 9.0 kg	
Fixing screw (wall)	4 x M6 round screws					
Protection factor	IP23					
PCB protection	Water-repellent varnish					
STANDARDS						
CE / EMC	EN61204-3					
CE / Security	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	Output voltage compensation (12V:-18mV/°C • 24V:-36mV/°C) 2.8m: STP-HPO-2.8 • 5m: STP-HPO-5.0					
Parallel mounting	KIT-HPO-LINK: up to 4 units with real time balancing feature					
Remote color touch-screen control panel	HPO-DISPLAY-R: also available integrated on the front panel, please consult us					







