









HPOWER





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

12 & 24V - 48V pending



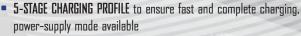


PRESENTATION

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



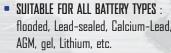




• FULL POWER up to +50°C ambient with no derating allowing rated charge for intensive use in hot or confined place



 3 ISOLATED BATTERY BANKS with no current limitation









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
- UL-1236 AND CSA 22.2-107.2 standards compliant (pending)



ERGONOMICS

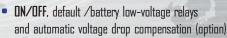
- FAST AND SECURE INSTALLATION through external wall fixing device
- LIGHTWEIGHT RUGGED Aluminium casing with special coating for marine environment
- OPTIMAL ACCESSIBILITY: specific secured connection compartment
- READABILITY COMFORT Dedicated LEDs and icons on the front
- OPTION: 2.5" colour touch-screen 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)



EASILY PROGRAMMABLE for a variety of applications and specific settings (including charge profile)



DNG-GL CERTIFIED - CERT VERSION

 With integrated touch-screen control panel and relays board Certificate nº TAE00003JC















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 (Pb)	600-1200Ah	300-600Ah	500-800Ah	700-1000Ah	800-1300Ah
INPUT					
/oltage		From	90 to 265VAC single-phase aut	omatic	
requency	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	1600W	2100W	2800W	3520W
Power factor			1		
ifficiency	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 (inc	luding one for the engine batte Each bank can b	ery) : +BAT E, +BAT 1 et +BAT 2 e used individually and deliver		ive -BAT
Connection on threaded rods		M6			M8
Rated current / power	90A/1282W	45A/1282W	60A/1710W	80A/2280W	100A/2850W
Charging profile	IU or IUoU th	rough internal dip switches (Bo	oost, Absorption and Floating –	factory setting). Selectable a	utomatic Refresh
Battery type	Lead-sealed as factory setting - Gel, AGM, Calcium Lead, Lithium, DC power-supply mode, etc. Specific request on demand				
3oost voltage	14.4VDC as factory setting for Lead-sealed	28 8VL) C 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
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,	270 x 360 x 130 mm / 6.8 kg 270 x 410 x 130 mm / 9.0 kg				
depth)/Weight Fixing screw (wall)	4 x M6 round screws				
Protection factor	P23				
PCB protection	Water-repellent varnish				
STANDARDS					
CE / EMC	EN61204-3				
CE / Security	EN60335-2-29				
PROTECTIONS					
		Against leaking input surge b	y VDR (Voltage Dependant Resi	stor) - Not covered by warrar	nty
	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	2.8m: S1P-HPO-2.8 • Sm: S1P-HPO-5.0 KIT-HPO-LINK: up to 4 units with real time balancing feature				
Remote color touch-screen	HPO-DISPLAY-R: also available integrated on the front panel, please consult us				
control panel		HFO-DISPLAT-N : also a	vanable integrated on the front	parier, piease consuit us	









