













ACRISTEG





Innovative battery chargers

HPOWER

New generation

Ruggedness

Unrivalled performance Flexible and user-friendly

LIN & CAN-BUS interface

12 & 24V - 48V pending





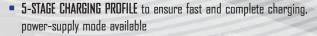




Specialized in the design of automatic battery chargers for more than 30 years, CRISTEC is proud to offer you high quality battery chargers for the toughest conditions for professional and recreational purposes: HPOWER.

PERFORMANCE





• FULL POWER up to +50°C ambient with no derating allowing





- 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
- 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)



DNG-GL CERTIFIED - CERT VERSION

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











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	
ecommended battery bank (Pb)	600-1200Ah	300-600Ah	500-800Ah	700-1000Ah	800-1300Ah	
NPUT						
oltage	From 90 to 265VAC single-phase automatic					
requency	From 47 to 65Hz automatic					
nput current consumption 30/115VAC	6.0A	/16.0A	9.0A/20.0A	11.0A/20.0A	15.0A/30.0A	
ecommended power or a generator	1600W	1600W	2100W	2800W	3520W	
ower factor			1			
ficiency			87% typical			
Removable input fuses	2 x 20A 250Vac (6.3x32)		2 x 25A 250Vac (6.3x32)		2 x 32A 250Vac (6.3x32)	
	(F1/F2)		(F1/F2)		(F1/F2)	
OUTPUT						
	3 (inc	luding one for the engine batte	rv) · + RAT F + RAT 1 et + RAT 2	(integrated isolator) 1 negativ	ve -RAT	
lumber of battery banks	5 (1110		used individually and deliver		VC D/(I	
onnection on threaded rods		М	6		M8	
lated current / power	90A/1282W	45A/1282W	60A/1710W	80A/2280W	100A/2850W	
harging profile	IU or IUoU th	rough internal dip switches (Bo	ost. Absorption and Floating –	factory setting). Selectable a	utomatic Refresh	
attery type	IU or IUoU through internal dip switches (Boost, Absorption and Floating – factory setting). Selectable automatic Refresh Lead-sealed as factory setting - Gel, AGM, Calcium Lead, Lithium, DC power-supply mode, etc. Specific request on demand					
	14 4VDC as factory					
Boost voltage	setting for Lead-sealed	/ / / / / / / / / / / / / / / / / / /				
loating voltage	13.8VDC as factory setting for Lead-sealed 27,6VDC as factory setting for Lead-sealed					
egulation tolerance before utput diode and fuse	< 1 % (at rated conditions)					
eak to peak ripple	< 1 % (at rated conditions)					
			< 1 % (at rated conditions)			
	4 x 30A/32V	2 x 30A/32V	3 x 25A/32V	4 x 25A/32V	4 x 30A/32V	
the minus pole -BAT	4 x 30A/32V	2 x 30A/32V		4 x 25A/32V	4 x 30A/32V	
n the minus pole -BAT ENVIRONMENT	4 x 30A/32V				4 x 30A/32V	
n the minus pole –BAT ENVIRONMENT Pooling	4 x 30A/32V		3 x 25A/32V		4 x 30A/32V	
n the minus pole -BAT ENVIRONMENT Gooling ound level			3 x 25A/32V an controlled in temperature at < 50 dBa at 1m	nd current		
n the minus pole -BAT ENVIRONMENT cooling ound level operating temperature		Electric fa	3 x 25A/32V an controlled in temperature at < 50 dBa at 1m	nd current		
n the minus pole -BAT ENVIRONMENT cooling ound level operating temperature torage temperature		Electric fa to +50°C, derating above 50°C. A	3 x 25A/32V an controlled in temperature a < 50 dBa at 1m Automatic charger switch off al	nd current Dove 60°C; automatic restart v		
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