

















# HPOWER 48

Unrivalled performance Flexible and user-friendly

LIN & CAN-BUS interface







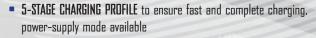


## PRESENTATION

Specialized in the design of automatic battery chargers for more than 30 years, CRISTEC is proud to offer you its 48V 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





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





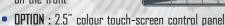
### WORLDWIDE LISE

- 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
- 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

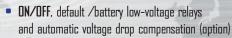




# BUILT-IN FUNCTIONALITIES



- 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)

### Models

- HPO48-30 Charger 48V 3DA
- HPO48-50 Charger 48V 50A











# Innovative automatic battery chargers **HPOWER 48 RANGE**





*		
Part number	HPO48-30	HPO48-50
Model	48V/30A	48V/50A
ecommended battery bank (Pb)	150-400Ah	250-700Ah
INPUT		
'oltage	From 90 to 265VAC single-phase automatic *	
requency	From 47 to 65Hz automatic	
nput current consumption 30/115VAC	9.0A/20.0A	15.0A/30.0A
ecommended power or a generator	2100W	3520W
ower factor	1	
fficiency	87% typical	
emovable input fuses	2 x 25A 250Vac (6.3x32) (F1/F2)	2 x 32A 250Vac (6.3x32) (F1/F2)
DUTPUT		
umber of battery banks	3 (including one for the engine battery) : +BAT E, +BAT 1 et +BAT 2 (integrated isolator), 1 negative -BAT Each bank can be used individually and deliver the rated current	
onnection on threaded rods	M6	
ated current / power	30A/1710W	50A/2850W
harging profile	IU or IUoU through internal dip switches (Boost, Absorption and Floating – factory setting). Selectable automatic Refresh	
attery type	Lead-sealed as factory setting - Gel, AGM, Calcium Lead, Lithium, DC power-supply mode, etc. Specific request on demand	
oost voltage	57.6VDC as factory setting for Lead-sealed	
loating voltage	55.2VDC 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)	
utomotive fuse n the minus pole -BAT	2 x 20A/80V	3 x 20A/80V
ENVIRONMENT		
ooling	Electric fan controlled in temperature and current	
ound level	< 50 dBa at 1m	
perating 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	
torage temperature	From -20°C to +70°C	
elative humidity	Up to 96% without condensation	
CASING	and the second	
Material	Painted Alui	minium
imensions (lenght, height, epth) / Weight	270×360×130 mm / 6.8 kg	270x 410x 130 mm / 9.0 kg
ixing screw (wall)	4 x M6 round	d screws
rotection factor	IP23	
CB protection	Water-repellent varnish	
STANDARDS		
E / EMC	EN61204-3	
E / Security	EN60335-2-29	
PROTECTIONS		
Against leaking input surge by VDR (Voltage Dependant Resistor) - Not covered by warranty		pendant Resistor) - Not covered by warranty
	Against leaking input salige by volt (Voltage Dependant reason) - Not covered by warranty  Against leaking input salige by volt (Voltage Dependant reason) - Not covered by warranty	
	Against short-circuit and surge	
	Against abnormal overheating by cutting off the charger	
OPTIONS		
emperature probe	Output voltage compensation -72mV/°C 2.8m : STP-UNI-2.8 • 5m : STP-UNI-5.0	
Parallel mounting	KIT-HPO-LINK: up to 4 units with real time balancing feature	
	UNI-DISPLAY-R: also available integrated on the front panel, please consult us	
Remote color touch-screen	LIMIT DICTION AND A STATE OF A ST	and the freedom and independent of the control of t

<sup>\*</sup> can be supplied in 144Vdc (121V – 169V).  $\label{precautions:precautions:high voltage DC fuses upstream of the charger on the + and - poles.$ Consult us.







