

CRISTEC



Silent High temperature performance Plug & play : easy connection CAN-BUS interface Automatic and Autonomous Remote touch-screen control panel

Innovative automatic battery chargers **YPOWER RANGE**





www.cristec.fr

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AC input



SILENT OPERATING

ALL FANLESS MODELS

EXCEPT 12V/60A &

24V/30A

DC output



PLUG & PLAY CONNECTORS

QUICK, RELIABLE AND FRIENDLY MOUNTING CHARGER TO BE LOCATED IN TIGHTER PLACES AC & DC PLUG CONNECTORS INCLUDED (except for DEM version, please consult us)





Founded in 1983, CRISTEC - CReation, Innovation Scientific and TEChnical - specializes in energy conversion. CRISTEC offers expertise on an international scale with a distribution network present in more than 50 countries.

CRISTEC is proud to offer you the assets of its fifth generation HF charger range, YPOWER, having already sold more than 150,000 units throughout the world.



HIGH **TEMPERATURE** PERFORMANCE

RATED CHARGE UP TO +60°C WITH NO DERATING CAN BE INSTALLED

IN AN ENGINE ROOM MODEL 12V/4DA

IGNITION PROTECTED ACCORDING TO STANDARDS SAE J1171 AND ISO8846



WORLDWIDE USE

90-265VAC/47-65HZ AUTO-RANGING DESIGN AND CONSTRUCTION ACCORDING TO UL-1236 MARINE AND CSA 22.2-107.2 STANDARDS MEET ALSO ABYC A-31 REQUIREMENTS





SMART CASING

NEW MODERN ROBUST AND COMPACT CASING TWO-COLOURED LEDS INDICATING CHARGE STATUS 4 EXTERNAL FIXINGS FOR EASY MOUNTING



SCALABLE CHARGER

요수 요수

3 ISOLATED

BATTERY BANKS

AUTOMATICALLY SENSES

AND DISTRIBUTES 100%

OF AVAILABLE CHARGING

ONE BANK DEDICATED

+ BAT E

PHASE

0

TO THE ENGINE BATTERY

INTEGRATED ELECTRONIC MOSFET CHARGE SEPARATOR

PROTECTION OF THE CHARGER

REBOOST

DURING ENGINE STARTING

AMPS TO ANY ONE BANK OR

COMBINATION OF ALL BANKS

CAN-BUS INTERFACE FOR DATA AND CONTROL TRANSFER (OPTION) REMOTE TOUCH-SCREEN <u>CONTROL PANEL (O</u>PTION)



24**V**dc

47/65Hz

PARALLEL STACKING FEATURE Allows up to 4 chargers to work together to work together

WORK TOGETHER TO COMBINE THE OUTPUT CURRENT

: 12Vdc

YPOWER : scalable chargers that meet current and future needs. Specific charging profiles and communication protocols upon request.



ADAPTATIVE Charging

BATTERY TECHNOLOGY SELECTION BY INTERNAL SWITCHES INCLUDING GEL, AGM, FLOODED, CALCIUM-LEAD, LITHIUM, ETC.

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SPECIFIC REQUESTS: BY FACTORY SOFT ADJUSTMENT, CONSULT US.



IP22

[•]90/265Vac

48¥dc

REFRESH

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BR≣TAGN≣[®]

5-STAGE CHARGING PROFILE

BODST : CHARGES BATTERIES TO 80% OF FULL CHARGE Absorption : Slowly Completes remaining

CUMPLETES REMAINING CHARGE TO 100% FLOATING : MAINTAINS

BATTERY CHARGE

PREVENTS SULPHATION AND REVITALIZES BATTERIES, SELECTABLE BY INTERNAL SWITCH

REBODST : NEW AUTOMATIC BOOST PHASE IF BATTERIES DEMAND NEEDS IT POWER-SUPPLY MODE ALSO AVAILABLE

IU MODE BY BODST INHIBITING BY INTERNAL SWITCH

> Boost tension/voltage (Vboost) Float tension/voltage (Vfloat) Courant nominal Nominal current (h)

ABSORPTION



Innovative battery chargers **YPOWER RANGE**



Part Number	YPO12-16ST	YPO12-25ST	YPO12-40ST	YPO12-60ST	YPO24-12ST	YPO24-20ST	YPO24-30ST			
lodel	12V/16A	12V/25A	12V/40A	12V/60A	24V/12A	24V/20A	24V/30A			
ecommended attery bank (Pb)	100-200Ah	200-300Ah	300-500Ah	500-700Ah	100-200Ah	200-300Ah	300-500Ah			
NPUT										
oltage			From 90	to 265VAC single-phase	e automatic					
requency	From 47 to 65Hz automatic									
put current onsumption 230/115VAC	1,1/2,2A	1,7/3,4A	2,7/5,6A	4,4/8,7A	1,7/3,4A	2,9/5,9A	4,5/8,8A			
ecommended power or a generator	280W	435W	700W	1050W	420W	700W	1050W			
ower factor				1						
fficiency				90% typical	T6,3A/250V					
emovable 1put fuses	T6,3A/250V SCHURTER MST 250 Réf. 0034.6623 (F101)		T15A/250V 6,3x32 (F101)		SCHURTER MST 250 Réf. 0034.6623 (F101)	T15A/250V 6,3x32 (F101)				
OUTPUT										
lumber of battery anks		3 (including one for the engine battery) : +BAT E, +BAT 1 et +BAT 2 (integrated Mosfet splitter) Each bank can be used individually and deliver the rated current								
otal rated current (+/-7%) Rated power	16A/228W	25A/356W	40A/570W	60A/855W	12A/342W	20A/570W	30A/855W			
harging curve		5		Absorption and Floatin	, ,					
attery type		, ,	5	al setting (Calcium Lead,	J J J J					
oost voltage oating voltage		4,4VDC for Lead sealed 3,8VDC for Lead sealed		5,		ead sealed battery (face and sealed battery (f	, ,			
egulation tolerance		5,6VDC IOI Lead Sealed	i Dattery (lactory sett	ing)	27,0000010116	eau sealeu battery (la	LUTY Setting)			
efore output diode nd fuse	< 2% (at rated conditions)									
eak to peak ripple	< 2% (at rated conditions)									
utomotive fuse in the ninus pole -BAT	1 x 20A/32V (F500)	1 x 30A/32V (F500)	2 x 25A/32V (F500, F501)	3 x 25A/32V (F500, F501, F502)	1 x 15A/32V (F500)	1 x 25A/32V (F500)	2 x 20A/32V (F500, F501)			
ENVIRONMENT										
ooling		Natural (fanless)	- Electric fan controlle	ed in temperature and c	current for 12V/60A and	24V/30A models				
ound level	0 < 50dBa at 1m 0 < 50dBa									
perating temperature 230VAC)	From -20°C to +60°C, derating from 60°C. Above 65°C, automatic charger switch off, automatic restart when temperature decreases									
torage temperature				From -20°C to +70°C						
elative humidity			Up to 7	70% (95% without cond						
CASING			·		·					
Naterial	Casing comprises 3 · Aluminium sink fran · Thermoplastic body · Aluminium clasp	me								
Dimensions (lenght, Jeight, depth) / Weight	236 x 180 x 9	6 mm / 2,1 kg	289 x 195 x 1	106 mm / 3,5kg	236 x 180 x 96 mm / 2,1 kg	289 x 195 x 106 mm / 3,5 kg				
ixing center distance	219 x 1	155 mm	272 x	170 mm	219 x 155 mm	272 x 170 mm				
xing screw (wall)	4 M5 round screws									
rotection factor	IP22									
CB protection			Water-rep	ellent varnish (marine e	nvironment)					
	EN61204-3									
E / EMC						and CCA				
E / EMC E / Security - Others		EN60335	5-2-29 - J1171/ISO884	6 for model 12V/40A - A	ABYC A-31 - Pending UL	and CSA				
E / EMC E / Security - Others		EN60335	5-2-29 - J1171/ISO884	6 for model 12V/40A - <i>I</i>	ABYC A-31 - Pending UL	and CSA				
E / EMC E / Security - Others		Against leaking	input surges by VDR I	rupture (voltage depen	dent resistor) - Not cove	ered by warranty				
E / EMC E / Security - Others		Against leaking	input surges by VDR i nst output polarity re	rupture (voltage depen versal by fuse rupture (i	dent resistor) - Not cove removable automotive	ered by warranty				
E / EMC E / Security - Others		Against leaking Agai	input surges by VDR i nst output polarity re Aga	rupture (voltage depen versal by fuse rupture (i ainst short-cuircuit and	dent resistor) - Not cove removable automotive surge	ered by warranty type)				
E / EMC E / Security - Others PROTECTIONS		Against leaking Agai	input surges by VDR i nst output polarity re Aga	rupture (voltage depen versal by fuse rupture (i	dent resistor) - Not cove removable automotive surge	ered by warranty type)				
E / EMC E / Security - Others PROTECTIONS		Against leaking Agai	input surges by VDR i nst output polarity re Aga	rupture (voltage depen versal by fuse rupture (i ainst short-cuircuit and	dent resistor) - Not cove removable automotive surge	ered by warranty type)				
STANDARDS :E / EMC :E / Security - Others PROTECTIONS OPTIONS iemperature probe		Against leaking Agai Against abnormal	input surges by VDR i nst output polarity re Aga	rupture (voltage dependent versal by fuse rupture (i ainst short-cuircuit and ng off the charger (intern	dent resistor) - Not cove removable automotive surge nal temperature probe -	ered by warranty type)	-36mV/°C			

YPOWER battery charger options	Temperature sensor for battery compartment	Touch-screen control panel	Charger ON/OFF remote control	CAN-BUS and relays board	()	
	STP-NEW-2.8 / STP-NEW-5.0	YPO-DISPLAY-R	G-ON/OFF-R	See specific datasheet	RoHS	Centification



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Specifications may change without prior notice ; please contact us. F-CHA2-o2-D

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