











New generation

Automatic and Autonomous

Plug & play: easy connection

Silent

High temperature performance

CAN-BUS interface

Remote digital display option



Innovative automatic battery chargers YPOWER RANGE









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OPTIMAL MADE-TO-MEASURE CHARGING FOR A LONGER BATTERY LIFE

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 110,000 units throughout the world.



PLUG & PLAY CONNECTORS

QUICK, RELIABLE

AND FRIENDLY MOUNTING CHARGER TO BE LOCATED IN TIGHTER PLACES AC & DC PLUG CONNECTORS INCLUDED except for DEM version.





SILENT OPERATING

ALL FANLESS MODELS EXCEPT 12V/60A & 24V/30A



HIGH **TEMPERATURE** PERFORMANCE

RATED CHARGE UP TO +60°C WITH NO DERATING CAN BE INSTALLED IN AN ENGINE ROOM MODEL 12V/40A 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



5-STAGE CHARGING

BOOST : CHARGES BATTERIES

TO 80% OF FULL CHARGE

ABSORPTION : SLOWLY COMPLETES REMAINING

CHARGE TO 100% **FLOATING: MAINTAINS**

BATTERY CHARGE

SELECTABLE BY

INTERNAL SWITCH

NFW AUTOMATIC

DEMAND NEEDS IT

BY INTERNAL SWITCH

AVAILABLE

AUTOMATIC REFRESH

PREVENTS SULPHATION

AND REVITALIZES BATTERIES.

BOOST PHASE IF BATTERIES

POWER-SUPPLY MODE ALSO

IU MODE BY BOOST INHIBITING

PROFILE













TWO-COLOURED LEDS INDICATING CHARGE STATUS 4 EXTERNAL FIXINGS FOR EASY



ADAPTATIVE CHARGING

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

LITHIUM, ETC. SPECIFIC REQUESTS: BY FACTORY SOFT ADJUSTMENT, CONSULT US.



IP22

90/265Vac

3 ISOLATED **BATTERY BANKS**

AUTOMATICALLY SENSES AND DISTRIBUTES 100% OF AVAILABLE CHARGING AMPS TO ANY ONE BANK OR COMBINATION OF ALL BANKS ONE BANK DEDICATED TO THE

ENGINE BATTERY + BAT E INTEGRATED ELECTRONIC MOSFET CHARGE SEPARATOR PROTECTION OF THE CHARGER

DURING ENGINE STARTING

PHASE



SCALABLE CHARGER

CAN-BUS INTERFACE FOR DATA AND CONTROL TRANSFER (OPTION) REMOTE TOUCH SCREEN DIGITAL

DISPLAY (OPTION)



PARALLEL STACKING **FEATURE**

ALLOWS UP TO 4 CHARGERS TO WORK TOGETHER TO COMBINE THE OUTPUT



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









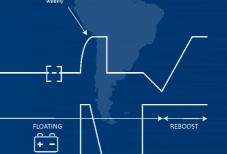
























Part Number	YPO12-16ST	YPO12-25ST	YPO12-40ST	YPO12-60ST	YPO24-12ST	YPO24-20ST	YPO24-30ST		
lodel	12V/16A	12V/25A	12V/40A	12V/60A	24V/12A	24V/20A	24V/30A		
ecommended attery bank (Ah)	100-200Ah	200-300Ah	300-500Ah	500-700Ah	100-200Ah	200-300Ah	300-500Ah		
INPUT									
oltage			From 00 t	to 265VAC single phase	automatic				
requency	From 90 to 265VAC single-phase automatic From 47 to 65Hz automatic								
nput current	1 1 /2 2 4	17/244				2.0/5.04	4.5/0.04		
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		
or a generator	280W	435W	700W	1050W	420W	700W	1050W		
ifficiency				90% typical					
lemovable	T6,3A/250V SCHURTER MST 250 Réf. 0034.6623 (F101)		T15A/250V		T6,3A/250V SCHURTER MST 250	T15A/250V			
nput fuses	SCHURTERINIST 250	Rei. 0034.0023 (F101)	6,3x3.	2 (F101)	Réf. 0034.6623 (F101)	6,3x32 (F101)			
OUTPUT									
lumber of battery anks		3 (including o		ttery) : +BAT E, +BAT 1 e sed individually and de	t +BAT 2 (integrated Mo liver the rated current	osfet splitter)			
otal rated current (+/-7%) Rated power	16A/228W	25A/356W	40A/570W	60A/855W	12A/342W	20A/570W	30A/855W		
Charging curve	IU or IUoU through internal dip switches (Boost, Absorption and Floating – factory setting) - Selectable automatic Refresh								
attery type					gel, AGM, LiFePO4, Op				
oost voltage		4,4VDC for Lead sealed		J.	,	ead sealed battery (fa	, ,,		
loating voltage	13	3,8VDC for Lead sealed	battery (factory setti	ng)	27,6VDC for Le	ead sealed battery (fa	ctory setting)		
egulation tolerance 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)		
ENVIRONEMENT									
ooling		Natural (fanless)	Electric fan controlle	ed in temperature and c	urrent for 12V/60A and	24V/30A models			
ound level		0		< 50dBa at 1m	0		< 50dBa at 1n		
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								
itorage temperature				From -20°C to +70°C					
elative humidity			Up to 7	0% (95% without cond	ensation)				
CASING									
	Casing comprises 3 p	parts :							
	Aluminium sink franThermoplastic bodyAluminium clasp								
imensions (lenght,	· Thermoplastic body · Aluminium clasp		289 x 195 x 1	06 mm / 3,5kg	236 x 180 x 96 mm / 2,1 kg	289 x 195 x 10	06 mm / 3,5 kg		
imensions (lenght, eight, depth) / Weight	• Thermoplastic body • Aluminium clasp 236 x 180 x 9	y		06 mm / 3,5kg 170 mm			06 mm / 3,5 kg 70 mm		
vimensions (lenght, eight, depth) / Weight ixing center distance	• Thermoplastic body • Aluminium clasp 236 x 180 x 9	96 mm / 2,1 kg			/ 2,1 kg				
oimensions (lenght, eight, depth) / Weight ixing center distance ixing screw (wall)	• Thermoplastic body • Aluminium clasp 236 x 180 x 9	96 mm / 2,1 kg		170 mm	/ 2,1 kg				
nimensions (lenght, eight, depth) / Weight ixing center distance ixing screw (wall) rotection factor	• Thermoplastic body • Aluminium clasp 236 x 180 x 9	96 mm / 2,1 kg	272 x	170 mm 4 M5 round screws	/ 2,1 kg 219 x 155 mm				
vimensions (lenght, eight, depth) / Weight ixing center distance ixing screw (wall) rotection factor CB protection	• Thermoplastic body • Aluminium clasp 236 x 180 x 9	96 mm / 2,1 kg	272 x	170 mm 4 M5 round screws IP22	/ 2,1 kg 219 x 155 mm				
imensions (lenght, eight, depth) / Weight ixing center distance ixing screw (wall) rotection factor CB protection	• Thermoplastic body • Aluminium clasp 236 x 180 x 9	96 mm / 2,1 kg	272 x Water-repo	170 mm 4 M5 round screws IP22	/ 2,1 kg 219 x 155 mm nvironment)				
imensions (lenght, eight, depth) / Weight ixing center distance ixing screw (wall) rotection factor CB protection STANDARDS E / EMC	• Thermoplastic body • Aluminium clasp 236 x 180 x 9	96 mm / 2,1 kg	272 x Water-repo	170 mm 4 M5 round screws IP22 ellent varnish (marine e	/ 2,1 kg 219 x 155 mm nvironment)				
primensions (lenght, eight, depth) / Weight ixing center distance ixing screw (wall) rotection factor STANDARDS E / EMC E / Security - Others	• Thermoplastic body • Aluminium clasp 236 x 180 x 9	96 mm / 2,1 kg	272 x Water-repo	170 mm 4 M5 round screws IP22 ellent varnish (marine e	/ 2,1 kg 219 x 155 mm nvironment)				
Dimensions (lenght, leight, depth) / Weight ixing center distance ixing screw (wall) trotection factor ICB protection STANDARDS	• Thermoplastic body • Aluminium clasp 236 x 180 x 9	96 mm / 2,1 kg 155 mm	272 x Water-repo EN61204-3 EN60335-2-	170 mm 4 M5 round screws IP22 ellent varnish (marine e - J1171/ISO8846 for me	/ 2,1 kg 219 x 155 mm nvironment) odel 12V/40A g UL and CSA	272 x 1			
Dimensions (lenght, leight, depth) / Weight ixing center distance ixing screw (wall) Protection factor DCB protection STANDARDS EE / EMC	• Thermoplastic body • Aluminium clasp 236 x 180 x 9	96 mm / 2,1 kg 155 mm Against leaking	Water-repo EN61204-3 EN60335-2- Input surges by VDR r	170 mm 4 M5 round screws IP22 ellent varnish (marine e - J1171/ISO8846 for me 29, ABYC A-31 - Pendin	/ 2,1 kg 219 x 155 mm nvironment)	272 x 1			
Dimensions (lenght, leight, depth) / Weight ixing center distance ixing screw (wall) Protection factor DCB protection STANDARDS EE / EMC	• Thermoplastic body • Aluminium clasp 236 x 180 x 9	96 mm / 2,1 kg 155 mm Against leaking	Water-repa EN61204-3 EN60335-2- Input surges by VDR rest output polarity rev	170 mm 4 M5 round screws IP22 ellent varnish (marine e - J1171/ISO8846 for me 29, ABYC A-31 - Pendin	/ 2,1 kg 219 x 155 mm nvironment) odel 12V/40A g UL and CSA dent resistor) - Not coveremovable automotive	272 x 1			
Dimensions (lenght, neight, depth) / Weight Fixing center distance Fixing screw (wall) Protection factor PCB protection STANDARDS CE / EMC CE / Security - Others PROTECTIONS	• Thermoplastic body • Aluminium clasp 236 x 180 x 9	96 mm / 2,1 kg 155 mm Against leaking Agai	Water-repa EN61204-3 EN60335-2- input surges by VDR rest output polarity rev Aga	170 mm 4 M5 round screws IP22 ellent varnish (marine e - J1171/ISO8846 for mo 29, ABYC A-31 - Pendin upture (voltage dependent) versal by fuse rupture (voltage screen)	/ 2,1 kg 219 x 155 mm nvironment) odel 12V/40A g UL and CSA dent resistor) - Not coveremovable automotive	272 x 1 red by warranty type)			
Dimensions (lenght, neight, depth) / Weight Fixing center distance Fixing screw (wall) Protection factor DCB protection STANDARDS EE / EMC EE / Security - Others PROTECTIONS	• Thermoplastic body • Aluminium clasp 236 x 180 x 9	96 mm / 2,1 kg 155 mm Against leaking Agai	Water-repa EN61204-3 EN60335-2- input surges by VDR rest output polarity rev Aga	170 mm 4 M5 round screws IP22 ellent varnish (marine e - J1171/ISO8846 for mo 29, ABYC A-31 - Pendin upture (voltage dependent) versal by fuse rupture (voltage screen)	/ 2,1 kg 219 x 155 mm nvironment) odel 12V/40A g UL and CSA dent resistor) - Not coveremovable automotive is	272 x 1 red by warranty type)			
Dimensions (lenght, neight, depth) / Weight Fixing center distance Fixing screw (wall) Protection factor PCB protection STANDARDS EE / EMC	• Thermoplastic body • Aluminium clasp 236 x 180 x 9	Against leaking Against abnormal of	Water-repa EN61204-3 EN60335-2- input surges by VDR rest output polarity rev Aga	170 mm 4 M5 round screws IP22 ellent varnish (marine e - J1171/ISO8846 for me 29, ABYC A-31 - Pendin upture (voltage dependent) versal by fuse rupture (interest and g off the charger (interest)	/ 2,1 kg 219 x 155 mm nvironment) odel 12V/40A g UL and CSA dent resistor) - Not coveremovable automotive is surge	272 x 1 red by warranty type)	70 mm		

YPOWER battery charger options	Temperature sensor for battery compartment	Digital display	Battery monitor	CAN-BUS
Item part number	STP-NEW-2.8	YPO-DISPLAY-R	JBNUMII-CPS3	Consult us





