











New generation **Automatic and Autonomous**

Plug & play: easy connection

Silent

High temperature performance

CAN-BUS interface

Remote touch-screen control panel

Innovative automatic battery chargers

YPOWER RANGE











Innovative battery chargers YPOWER RANGE



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 120,000 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,
please consult us)





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
JII7I 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 DOERN ROBUST AND COMPACT CASING





MOUNTING

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



5-STAGE CHARGING PROFILE

BOOST : CHARGES BATTERIES TO 80% OF FULL CHARGE

ABSORPTION: SLOWLY COMPLETES REMAINING CHARGE TO 100%

FLOATING: MAINTAINS
BATTERY CHARGE

AUTOMATIC REFRESH:

PREVENTS SULPHATION AND REVITALIZES BATTERIES, SELECTABLE BY INTERNAL SWITCH

REBOOST:

NEW AUTOMATIC BOOST PHASE IF BATTERIES DEMAND NEEDS IT

POWER-SUPPLY MODE ALSO AVAILABLE

IU MODE BY BOOST INHIBITING BY INTERNAL SWITCH



ADAPTATIVE CHARGING

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

SPECIFIC REQUESTS: BY FACTORY SOFT ADJUSTMENT, CONSULT US.



IP22

90/265Vac

48 V d c

REFRESH

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
CONTROL PANEL (OPTION)



PARALLEL STACKING FEATURE

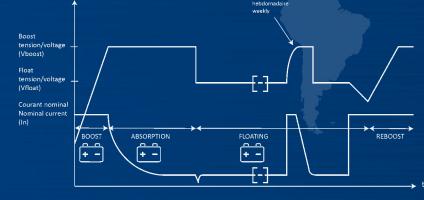
ALLOWS UP
TO 4 CHARGERS
TO WORK TOGETHER
TO COMBINE
THE OUTPUT
CURRENT

12Vdc

47/65Hz

24Vdc

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

























Part Number	YPO12-16ST	YPO12-25ST	YPO12-40ST	YPO12-60ST	YPO24-12ST	YPO24-20ST	YPO24-30ST
Model ecommended	12V/16A	12V/25A	12V/40A	12V/60A	24V/12A	24V/20A	24V/30A
attery bank (Ah)	100-200Ah	200-300Ah	300-500Ah	500-700Ah	100-200Ah	200-300Ah	300-500Ah
INPUT							
/oltage				to 265VAC single-phase			
requency	From 47 to 65Hz automatic						
nput current consumption 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
Recommended power or a generator	280W	435W	700W	1050W	420W	700W	1050W
ower factor				1			
fficiency				90% typical			
Removable	T6,3A		T15A/250V		T6,3A/250V SCHURTER MST 250	T15A/250V	
nput fuses	SCHURTER MST 2501	SCHURTER MST 250 Réf. 0034.6623 (F101)		6,3x32 (F101)		6,3x32 (F101)	
OUTPUT							
Number of battery panks		3 (including		ttery) : +BAT E, +BAT 1 e sed individually and de		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						
Battery type	Lead sealed as factory setting - Other choices through internal setting (Calcium Lead, gel, AGM, LiFePO4, Opened, etc.) - Specific requests: consult u						
Boost voltage	14,4VDC for Lead sealed battery (factory setting) 28,8VDC for Lead sealed battery (factory setting)						, ,,
loating voltage	13,8VDC for Lead sealed battery (factory setting) 27,6VDC for Lead sealed battery (factory setting)						ctory setting)
Regulation tolerance pefore output diode and fuse	< 2% (at rated conditions)						
Peak to peak ripple	< 2% (at rated conditions)						
Automotive fuse in the minus 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							
Cooling		Natural (fanless)	- Electric fan controlle	ed in temperature and c	urrent for 12V/60A and	24V/30A models	
Sound level	0 < 50dBa at 1m 0 < 50dBa at						< 50dBa at 1m
Operating temperature 230VAC)	From -20°C to +60°C, derating from 60°C. Above 65°C, automatic charger switch off, automatic restart when temperature decreases						decreases
Storage temperature				From -20°C to +70°C			
Relative humidity			Up to 7	70% (95% without cond	ensation)		
CASING							
	Casing comprises 3 p · Aluminium sink fran	ne					
Material	· Thermoplastic body · Aluminium clasp	1					
Dimensions (lenght,	Thermoplastic bodyAluminium clasp	6 mm / 2,1 kg	289 x 195 x	106 mm / 3,5kg	236 x 180 x 96 mm / 2,1 kg	289 x 195 x 10	06 mm / 3,5 kg
Dimensions (lenght, neight, depth) / Weight	· Thermoplastic body · Aluminium clasp 236 x 180 x 96			106 mm / 3,5kg 170 mm			06 mm / 3,5 kg
Dimensions (lenght, neight, depth) / Weight Fixing center distance	· Thermoplastic body · Aluminium clasp 236 x 180 x 96	6 mm / 2,1 kg			/ 2,1 kg		
Dimensions (lenght, neight, depth) / Weight Fixing center distance Fixing screw (wall)	· Thermoplastic body · Aluminium clasp 236 x 180 x 96	6 mm / 2,1 kg		170 mm	/ 2,1 kg		
Dimensions (lenght, neight, depth) / Weight Fixing center distance Fixing screw (wall) Protection factor	· Thermoplastic body · Aluminium clasp 236 x 180 x 96	6 mm / 2,1 kg	272 x	170 mm 4 M5 round screws	/ 2,1 kg 219 x 155 mm		
Dimensions (lenght, neight, depth) / Weight fixing center distance fixing screw (wall) Protection factor	· Thermoplastic body · Aluminium clasp 236 x 180 x 96	6 mm / 2,1 kg	272 x	170 mm 4 M5 round screws IP22	/ 2,1 kg 219 x 155 mm		
Dimensions (lenght, leight, depth) / Weight ixing center distance ixing screw (wall) trotection factor	· Thermoplastic body · Aluminium clasp 236 x 180 x 96	6 mm / 2,1 kg	272 x Water-rep	170 mm 4 M5 round screws IP22	/ 2,1 kg 219 x 155 mm nvironment)		
Dimensions (lenght, leight, depth) / Weight ixing center distance ixing screw (wall) Protection factor DEB protection STANDARDS	· Thermoplastic body · Aluminium clasp 236 x 180 x 96	6 mm / 2,1 kg	272 x Water-rep EN61204-3	170 mm 4 M5 round screws IP22 ellent varnish (marine e	/ 2,1 kg 219 x 155 mm nvironment)		
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 96	6 mm / 2,1 kg	272 x Water-rep EN61204-3	170 mm 4 M5 round screws IP22 ellent varnish (marine e	/ 2,1 kg 219 x 155 mm nvironment)		
Material Dimensions (lenght, neight, depth) / Weight depth) / Weight depth de	· Thermoplastic body · Aluminium clasp 236 x 180 x 96	6 mm / 2,1 kg 55 mm	272 x Water-rep EN61204-3 EN60335-2	170 mm 4 M5 round screws IP22 ellent varnish (marine e	/ 2,1 kg 219 x 155 mm nvironment) odel 12V/40A g UL and CSA	272 x 1	
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 96	6 mm / 2,1 kg 55 mm Against leaking	Water-rep EN61204-3 EN60335-2 input surges by VDR	170 mm 4 M5 round screws IP22 ellent varnish (marine e	/ 2,1 kg 219 x 155 mm nvironment) odel 12V/40A g UL and CSA dent resistor) - Not cove	272 x 1	
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 96	6 mm / 2,1 kg 55 mm Against leaking	Water-rep EN61204-3 EN60335-2 input surges by VDR inst output polarity re	170 mm 4 M5 round screws IP22 ellent varnish (marine e	/ 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 EE / EMC	· Thermoplastic body · Aluminium clasp 236 x 180 x 96	6 mm / 2,1 kg 55 mm Against leaking Agai	Water-rep EN61204-3 EN60335-2 input surges by VDR inst output polarity re Ag:	170 mm 4 M5 round screws IP22 ellent varnish (marine e 3 - J1171/ISO8846 for mo -29, ABYC A-31 - Pendin rupture (voltage depen-	/ 2,1 kg 219 x 155 mm nvironment) odel 12V/40A g UL and CSA dent resistor) - Not coveremovable automotive surge	272 x 1 ered 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 96	6 mm / 2,1 kg 55 mm Against leaking Agai	Water-rep EN61204-3 EN60335-2 input surges by VDR inst output polarity re Ag:	170 mm 4 M5 round screws IP22 ellent varnish (marine e 3 - J1171/ISO8846 for mo -29, ABYC A-31 - Pendin rupture (voltage depen- versal by fuse rupture (rainst short-cuircuit and	/ 2,1 kg 219 x 155 mm nvironment) odel 12V/40A g UL and CSA dent resistor) - Not coveremovable automotive surge	272 x 1 ered by warranty type)	

YPOWER battery charger options	Temperature sensor for battery compartment	Touch-screen control panel	CAN-BUS
	STP-NEW-2.8	YPO-DISPLAY-R	Consult us









