



- 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



Innovative battery chargers YPOWER RANGE



AC input



DC output

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.



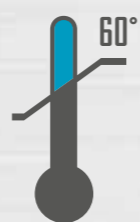
PLUG & PLAY CONNECTORS

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

BRETAGNE



SMART CASING

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



ADAPTATIVE CHARGING

BATTERY TECHNOLOGY SELECTION BY INTERNAL SWITCHES INCLUDING GEL, AGM, FLOODED, CALCIUM-LEAD, LITHIUM, ETC.
SPECIFIC REQUESTS: BY FACTORY SOFT ADJUSTMENT, CONSULT US.



5-STAGE CHARGING PROFILE

BOOST : CHARGES BATTERIES TO 80% OF FULL CHARGE

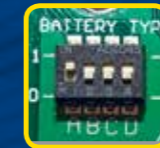
ABSORPTION : SLOWLY COMPLETES REMAINING CHARGE TO 100%

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



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



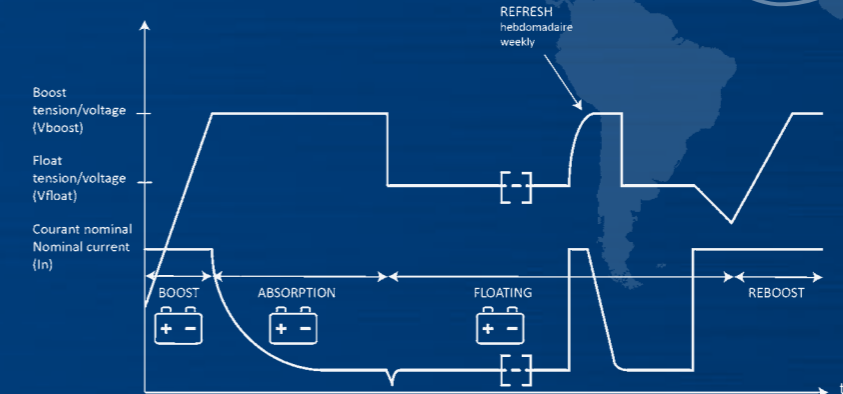
SCALABLE CHARGER

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 CURRENT



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





Innovative battery chargers YPOWER RANGE



| Part Number | YPO12-16ST | YPO12-25ST | YPO12-40ST | YPO12-60ST | YPO24-12ST | YPO24-20ST | YPO24-30ST |
|---|--|--------------------|----------------------------|--------------------------------|--|--------------------|-----------------------------|
| Model | 12V/16A | 12V/25A | 12V/40A | 12V/60A | 24V/12A | 24V/20A | 24V/30A |
| Recommended battery bank (Ah) | 100-200Ah | 200-300Ah | 300-500Ah | 500-700Ah | 100-200Ah | 200-300Ah | 300-500Ah |
| INPUT | | | | | | | |
| Voltage | From 90 to 265VAC single-phase automatic | | | | | | |
| Frequency | From 47 to 65Hz automatic | | | | | | |
| Input 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 for a generator | 280W | 435W | 700W | 1050W | 420W | 700W | 1050W |
| Power factor | 1 | | | | | | |
| Efficiency | 90% typical | | | | | | |
| Removable input fuses | T6,3A/250V SCHURTER MST 250 Réf.0034.6623 (F101) | | T15A/250V 6,3x32 (F101) | | T6,3A/250V SCHURTER MST 250 Réf.0034.6623 (F101) | | T15A/250V 6,3x32 (F101) |
| OUTPUT | | | | | | | |
| Number of battery banks | 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 | | | | | | |
| Total 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 us | | | | | | |
| Boost voltage | 14,4VDC for Lead sealed battery (factory setting) | | | | 28,8VDC for Lead sealed battery (factory setting) | | |
| Floating voltage | 13,8VDC for Lead sealed battery (factory setting) | | | | 27,6VDC for Lead sealed battery (factory setting) | | |
| Regulation tolerance before 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) |
| ENVIRONNEMENT | | | | | | | |
| Cooling | Natural (fanless) - Electric fan controlled in temperature and current for 12V/60A and 24V/30A models | | | | | | |
| Sound level | 0 | | | < 50dBa at 1m | 0 | | < 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 | | | | | | |
| Storage temperature | From -20°C to +70°C | | | | | | |
| Relative humidity | Up to 70% (95% without condensation) | | | | | | |
| CASING | | | | | | | |
| Material | Casing comprises 3 parts : · Aluminium sink frame · Thermoplastic body · Aluminium clasp | | | | | | |
| Dimensions (length, height, depth) / Weight | 236 x 180 x 96 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 106 mm / 3,5 kg |
| Fixing center distance | 219 x 155 mm | | 272 x 170 mm | | 219 x 155 mm | | 272 x 170 mm |
| Fixing screw (wall) | 4 M5 round screws | | | | | | |
| Protection factor | IP22 | | | | | | |
| PCB protection | Water-repellent varnish (marine environment) | | | | | | |
| STANDARDS | | | | | | | |
| CE / EMC | EN61204-3 - J1171/ISO8846 for model 12V/40A | | | | | | |
| CE / Security - Others | EN60335-2-29, ABYC A-31 - Pending UL and CSA | | | | | | |
| PROTECTIONS | | | | | | | |
| | Against leaking input surges by VDR rupture (voltage dependent resistor) - Not covered by warranty | | | | | | |
| | Against output polarity reversal by fuse rupture (removable automotive type) | | | | | | |
| | Against short-circuit and surge | | | | | | |
| | Against abnormal overheating by cutting off the charger (internal temperature probe - automatic restart) | | | | | | |
| OPTIONS | | | | | | | |
| Temperature probe | Output voltage compensation : -18mV/°C | | | | Output voltage compensation : -36mV/°C | | |
| Communication | CAN-BUS interface | | | | | | |

| 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-CP53 | Consult us |

