RCP110V30AAC

PROGRAMMABLE RECTIFIER BATTERY CHARGER

Input specifications
Ac Input voltage: 220/230 and 380/400 Vac ± 15%, 45 - 65 Hz.
Supply type: three-phase / three wire.
AC Input Current: 15 A.

Output specifications
Nominal battery voltage: 110 Vdc.
Float high rate, and manual operation voltages: Programmable from 0 to 150 Vdc
Typical values for 54 lead acid cells:
Float charge: 116 - 123 Vdc.
High rate charge: 121 - 130 Vdc.
Rated Output Current: 30A.
Float charge current limit: adjustable 0 - 31 A.
High rate charge current limit: adjustable 0 - 31A.
Voltage and current regulation: 1% of rated.
Automatic operation mode: Float/high rate charge.
Float-high rate changeover: Controlled by discharge voltage/charge current
Manual operation mode: Operator controlled constant voltage - constant current charge.

Instruments an signals:
Digital class 1 Voltmeter and Ammeter.
Current measurement: total, battery and load.
Voltage measurement: output voltage.
Front panel: 6 - digit LED display with 4 touch keys.
Charge mode indication: LED signals for float, high rate and manual operation.
Alarm signals: display messages.
Alarm remote signal: relay contacts (NA, C, NC).

Mechanical specifications
Connection terminals: Ac power, battery output, load output, alarm relay .
Weight: 110 kg.

Environmental specifications
Temperature: -10 ºC to 45 ºC.
RH non condensing: 100 %
Protection IP 21.

Standards
Mfg. Standards: IEC60146, 60255-5.
Type test: IEC60146-343, duty class I.
Routine test: IEC60146-492 and 60255-5.

Rev 1.0 21/01/10

MADE IN URUGUAY

FUNCTION
Conversion of three-phase AC power to DC power to for battery charging and current supply to DC loads.

FEATURES
- Output voltages, current limits and alarm settings are easily programmable by the user in front panel.
- Suitable for replacement of lower nominal voltage or rated current models.
- Solid - state, microprocessor based technology with minimum parts count.
- Digital voltage and current control.
- Digital instruments.
- Suitable to charge different types of lead-acid and nickel- cadmium batteries.
- Compact ans easily transportable.
- Operates normally when powered by a generator.
- Time-controlled manual boost charge.

PROTECTION
Reverse connected battery inhibit.
Short circuit current limiting.
Overload protection.
High output voltage inhibit.
DC output fuses.
AC power circuit breaker.
Low and high output voltage.
High DC Load current.
AC power failure.
Blown semiconductor fuse.

APPLICATIONS
Automatic battery charger for auxiliary DC supply in power system sub-stations and communications systems. Power supply for telephone equipment
High current DC voltage power supply.

OPTIONS
Additional output filter for low ripple requirements / low psophometric noise.
Reduced voltage at the DC load output.
Other AC supply voltages
Extended AC input voltage range to +20%, -25%.
Time-controlled high rate charge.
Semiconductor range fuses for thyristors.

Dimensions: width 45.0 cm, height 63.5 cm, depth 40.0 cm

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