



# Automatic Industrial Battery Charger & Power Supply



# Features

1

## Dual thyristors rectifier system

Rectifier supply unit RSU: dedicated to supplying load only.  
Rectifier charging unit RCU: dedicated to supplying battery.

2

## Automatic and manual control mode

Automatic: the charger chooses the charging mode.  
Manual: the operator chooses the charging mode.

3

## Float and high rate charging mode

Float: the battery is charged slowly to achieve maximum service life.  
High rate: the battery is charged faster to achieve higher and more consistent.

4

## Constant Voltage, Variable Current

Output DC voltage will be fixed value with a variable current with limitation.  
Long term stability of DC voltage.

5

## Fully Protection

Load: against overload and short circuit by current limitation.  
Battery: against battery over charging, low voltage, overload and short circuit by current limitation.

6

## Cooling and lighting

Controlled fan for cooling the cabinet.  
led lighting with limit switch control.

7

## High reliability

Operation for long years with very low maintenance.

8

## Warranty

1 to 3 years warranty with available spare parts for 20 years and more.

# Technical Spec. & Protections

According to IEC 146 standard

## Input Voltage:

- 220VAC 50Hz  $\pm 10\%$ , 380VAC 50Hz  $\pm 15\%$

## Output Voltage:

24, 48, 110, 220 VDC  $\pm 2\%$  (you could choose your voltage)

## Charging Voltage:

Float: adjustable from 80:130% of Battery Volt.

High rate: adjustable from 80:150% of Battery Volt

## Output Current:

0:100% ADC with stable output volt.

## Charging mode:

Automatic: start a High rate charge for a period of time (adjustable) or the charging current is very low then the mode change to float charge

Manual: choose float or high rate charge

## Charger Characteristic:

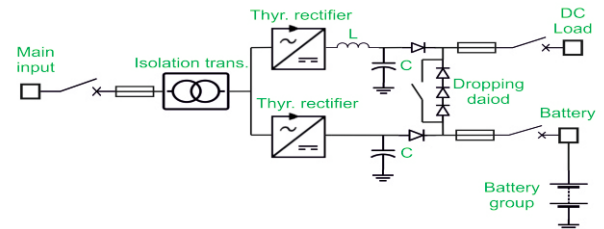
Constant voltage with variable current with limitation

## ambient temperature:

-5 to +55 C

## Protections:

- AC Un/Ov voltage and phase sequence
- Input and output MCBs
- RC and Snubber
- Semiconductor fuses
- Over temperature
- Battery low voltage
- Battery over charging
- Charging limitation current
- Charging short circuit current
- Output limitation current
- Output short circuit current





# Indications & Stand Ranges



## Analog metering:

- Input voltage
- Output current
- Output voltage
- Battery current

## Indication led mimic:

- AC supply (green color)
- Float charging (green color)
- High rate charging (green color)
- Battery discharging (red color)
- Battery low voltage (red color)
- Charger failure (red color)

## Status relays:

2 free voltage contact:

- AC supply status
- Common failure

Output Voltage	Current Rating	Input Voltage	Cabinet Type
24VDC	10A, 20A, 30A, 40A, 50A	220VAC 1PH	Floor Mounted
	20A, 30A, 40A, 50A, 80A, 100A	380VAC 3PH	
48VDC	10A, 20A, 30A, 40A, 50A	220VAC 1PH	
	20A, 30A, 40A, 50A, 80A, 100A	380VAC 3PH	
110VDC	10A, 20A, 30A, 40A, 50A	220VAC 1PH	
	20A, 30A, 40A, 50A, 80A, 100A, 120A, 150A	380VAC 3PH	
220VDC	10A, 20A, 30A, 40A, 50A	220VAC 1PH	note: there is a wall mounted for small rates (customized)
	20A, 30A, 40A, 50A, 80A, 100A, 120A, 150A, 180A, 200A	380VAC 3PH	





**Address:** 42 kairat st., laz oghly sq., cairo, Egypt

**Telephone:** 022-02-27949209

**Mobile:** 002-01001027502

**Web site:** [www.greenelectronix.net](http://www.greenelectronix.net)

**main email:** [info@greenelectronix.net](mailto:info@greenelectronix.net)

**Sales email:** [m\\_aboyousef@greenelectronix.net](mailto:m_aboyousef@greenelectronix.net)

**maintenance email:** [maintenance@greenelectronix.net](mailto:maintenance@greenelectronix.net)

**Automation email:** [automation@greenelectronix.net](mailto:automation@greenelectronix.net)

**electronics design email:** [rnd@greenelectronix.net](mailto:rnd@greenelectronix.net)