

RCPU

Rectifier cum Charger
Power Unit



The RCPU is a fully regulated switching power converter, designed for charging of 12/24 Volt batteries for vehicles, marine, military, PLC, and cell tower applications and simultaneously drive system load by providing un-interrupted and stable DC output power supply. This is reliable, robust AC to DC battery charger with high power load output. The RCPU is immune to vibration and shock, and comes with a heavy duty water proof cabinet, suitable for military grade applications.

The RCPU can charge all types and ratings of Nickel Cadmium and sealed and vented lead acid Features: batteries. It can also drive system load of up to 150W simultaneously. RCPU comes with three variants of output DC voltages: 12V, 24V, 48V.

APPLICATION:

- Fully automatic AC driven power supply unit for military telecom products, radios and radars.
- Intelligent Battery Charger for 12/24/48 V and ratings of batteries.

FUNCTIONALITY:

- Micro controller and OLED display for monitoring, selection and diagnostics of various voltages and currents
- Auto Sensing connected battery
- Excellent line and load regulation
- Wide AC input voltage range
- Long term short circuit protected
- Efficient Thermal management, Overheating cut-off

Less than 8 Kg



486×222×92 mm



Environmental Data

- Operating Temperature : -20°C to +55°C
- Storage Temperature : -40°C to +65°C
- Relative humidity : 0 - 95 %
- Driving rain : 100 mm/hour

References

- Ruggedization : MIL-STD-810G/ JSS 55555
- EMI/EMC : MIL-STD-461E
- ESD : EN-61000-4-2
- Lightning : EN-61000-4-5

Accessories

- AC and DC Power Cables
- Operator Manual

Power Supply

- AC Supply operation : 140V - 265V AC
- Battery Cut-off : 12V : 10 V cut off
24V : 22 V cut off
48 V : 40 V cut off
- Power (load) : Up to 150W
- Battery Charging : 52V, 3.5A

Variants

- RPU12112 : 12V DC O/P, 150W
- RPU12124 : 24V DC O/P, 150W
- RPU12148 : 48V DC O/P, 150W

This publication is not to be regarded as a complete system specification, or to be used as a contract document.

We reserve the right to change the design or specifications without prior notice.

