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Switched mode power supply TP91A

Microcontroller based uninterruptible power supply used in a portable satellite receiver / transmitter system. The UPS has an intelligent back-up battery charger



Overview TP91A

- 120W Uninterruptible power supply
- Extended operating temperature range of -30 to +70 °C without derating
- Supplies uninterruptible power for handling AC mains interruptions: a connected Ni-Dc battery pack provides a full no break function
- An integrated intelligent battery charger provides optimal fast- and trickle charge current functionality related to parameters such as battery temperature, battery voltage and total charging time
- Remote on/off control
- Integrated driver output, which provides a temperature controlled output power to an external heater when the internal system housing temperature drops below 0°C
- Single-ended feed-forward topology
- Custom made

Application

- Portable satellite receiver / transmitter system
- The PSU supplies the internal DC BUS voltage
- Operating 24/7

Detailed specifications

Input

- Input voltage range: 187 - 264 Vac

Output

- Single output: +30V
- Nominal output power: 120W

Protections

- Overvoltage protection
- Overload / Short circuit protection
- Overtemperature protected

Safety & EMC

- EN 60950

Cooling

- Conductive convection of the central heatsink to the mounting console of the system's housing

Mechanical construction

- Open frame construction

Connection

- Input: AMP connector
- Output: JST connectors

Dimensions

- Size (L x W x H): 197x 145 x 43 mm
7,8 x 5,7 x 1,7 inch
- Weight: 0,90 KG