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Switched mode power supply TP69A

250W lead acid battery charger



Overview TP69A

- 250W lead acid battery charger
- Remote sensing is used for compensating a voltage drop at the output wiring
- Double-ended feed-forward topology
- Temperature compensated output voltage guarantees an optimal lifetime of the connected battery
- Active soft-start circuit adequately limits the inrush current at both cold- and hot start conditions
- Custom made

Application

- Traffic information displays at motorways
- System consists of up to 20 charger and battery combinations
- The chargers are parallelly connected to a single power bus
- The connection provides active current sharing and an uninterrupted supply of power

Detailed specifications

Input

- Input voltage range: 180Vac - 264Vac
- Leakage current: 0,5 mA max.
- Efficiency: > 80%

Output

- Single output voltage: +13,8Vdc
- Nominal output power: 250W

Protections

- Under / overvoltage protection
- Overload protection
- Overtemperature protection

Certificates

- CE marked



Safety & EMC

- EN 60950
- EN 55022 Class B

Cooling

- Forced air convection recommended

Mechanical construction

- Open frame construction
- Provided with an aluminium L-bracket

Connections

- Input: 3 pins Amp Mate-N-Lok connector
- Output: 4 pins Leoco connector

Dimensions & weight

- Size housing (L x W X H): 275 x 125 x 63 mm
10,8 x 4,9 x 2,5 mm
- Size PCB (L x W X H): 275 x 100 x 54 mm
10,8 x 4 x 2,1 mm
- Weight: 1,4 KG