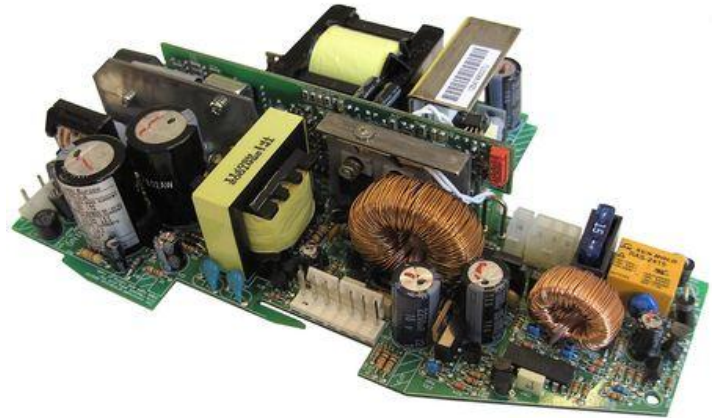




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Switched mode power supply TP125A

90W Class II medical uninterruptible power supply with a microcontrolled no break power conversion system.



Overview TP125A

- 90W uninterruptible power supply
- 3 converters:
 - A single-ended feed-forward main converter*
 - A push-pull boost converter*: supplies the main converter during battery or external DC operation
 - A buck converter*: charges the system battery
- I²C communication between battery and system.
- An integrated remote on/off functionality and a TTL compatible power-fail signal.
- Custom Made

Application

- Artificial respiration equipment for patients at home
- Continuous operation
- Low stand-by power

Detailed specifications

Input

- AC input auto ranged: 90 - 135V and 190 - 264V
- Battery input range: 14,4 - 24Vdc
- External DC input range: 22 - 32Vdc
- Leakage current: 0,5 mA RMS maximum
- Efficiency: > 78%

Output

- Triple output voltages

+12,65V
+40V
+24V
- Nominal output power: 90W

Certificates

- CE marked



Microprocessor controlled protections

- Under/Overvoltage protection
- Overload / Short circuit protection
- Automatic switch-off and restart functionalities
- Over temperature protected with an automatic recovery

Safety & EMC

- EN 60601 3rd edition
- IEC 60601-1:1998 + A1:1991 + A2:1995
- UL 60601
- EN 61000-6-3 2001
- EN 60068-2-27 1987
- EN 61000-6-2 2001
- EN 61000-3-2 A14 2000
- EN 61000-3-3
- EN 55011
- EN 55014
- EN 61000-4-2
- EN 61000-4-3
- EN 61000-4-4
- EN 61000-4-5
- EN 61000-4-6
- EN 61000-4-11
- IEC 60068-2-64

Cooling

- Free air convection

Mechanical construction

- Open frame with very small heatsinks

Connection

- Input: Leoco connector 3 pins
- Output: Molex connector 7 pins
- Programming interface: Straight Pin Header 5 pins
- CC1 interface: Micro Match 6 pins
- Battery: Mini-Fit Jr. 6 pins
- 24V input: Mini-Fit Jr. 2 pins

Dimensions & weight

- Size (L x W X H): 210 x 130 x 40 mm
8,3 x 5,1 x 1,6 inch
- Weight: 0,45 KG