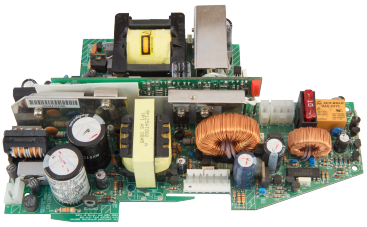
Total Power Europe
Specialist in power conversion

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TP125A

90W Class II medical grade microprocessor controlled uninterruptible power supply.



Model ref: TPSF-90-3-A

OVERVIEW

- 90W power supply
- 3 converters
  - : A single-ended feed-forward main converter
  - : A single-ended feed-forward main 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

INPUT

- AC input voltage range
  - : 90 – 135 Vac
  - : 190 – 264 Vac
- Battery input range : 14.4 – 24Vdc
- External DC input range : 22 – 32Vdc
- Leakage current : 0.5 mA RMS max.
- Efficiency : > 78%
- Class II

OUTPUT

- Nominal output power : 90W
- Multiple output voltages
  - : +12.65V
  - : +24V
  - : +40V

PROTECTIONS

- Under / overvoltage protection
- Overload / short circuit protection
- Automatic fault recovery (hiccup restart) functionality
- Automatic latch-off functionality
- Overtemperature protection : Automatic recovery when temperature levels are back to normal
- Microprocessor controlled protections

CERTIFICATES

- CE marked

SAFETY & EMC

- EN 55011
- EN 55014
- EN 60068-2-27 1987
- IEC 60068-2-64
- IEC/EN/UL 60601-1
- IEC/EN 61000-3-2
- IEC/EN 61000-3-3
- IEC/EN 61000-4-2
- IEC/EN 61000-4-3
- IEC/EN 61000-4-4
- IEC/EN 61000-4-5
- IEC/EN 61000-4-6
- IEC/EN 61000-4-11
- IEC/EN 61000-6-2
- IEC/EN 61000-6-3

COOLING

- Free air convection

CONSTRUCTION

- Open frame with very small heatsinks

CONNECTIONS

- 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

- Dimensions (L X W X H) : 210 × 130 × 40 mm
  : 8.3 × 5.1 × 1.6 inch
- Weight : 0.45 KG