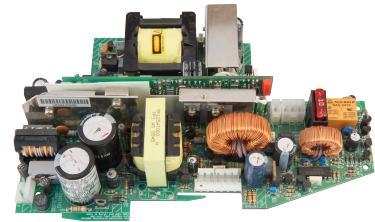


TP125A

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 |