

## 250W Medical / ITE External Power Supplies

### Features

- ◆ Meets DoE Level VI & EU Tier 2 Efficiency
- ◆ Medical & ITE Certifications
- ◆ < 0.15W Off-load Power Draw
- ◆ Meets IEC60601-1-2 Ed4
- ◆ Suitable for B & BF Rated Equipment



### Key Market Segments & Applications



| Specifications                      |       |   |
|-------------------------------------|-------|---|
|                                     | Model | DTM250-D  |
| Input Voltage range                 | VAC   | 90 - 264VAC (47 - 63Hz)   |
| Inrush Current                      | A     | <80A at 230VAC input, 25°C ambient cold start   |
| Input Current                       | A     | 2.5A @115VAC; 1.3A @230VAC Maximum  |
| Touch Current                       | -     | <100uA @ 264VAC   |
| Power Factor                        | -     | Meets EN61000-3-2, >0.9 at 230VAC full load   |
| Hold Up Time (Typ)                  | ms    | 10ms at 115VAC input  |
| Temperature Coefficient             | %/°C  | ±0.05%/°C   |
| Adjustment Range                    | -     | None  |
| Minimum Load                        | A     | None  |
| Total Regulation                    | %     | ±5%   |
| Ripple & Noise (pk-pk)              | mV    | 12V: 240mV, 19 - 54V: 300mV   |
| Overload & Short Circuit Protection | -     | 105 - 160% - hiccup mode  |
| Overvoltage Protection              | V     | Auto-recovery   |
| Efficiency                          | %     | >89%, average efficiency  |
| Operating Temperature               | °C    | -20 to +60°C derate linearly to 50% load from 40 to 60°C<br>Derate linearly to 80% load from 0 to -20°C |
| Storage Temperature                 | °C    | -20 to +85°C  |
| Humidity (non condensing)           | %RH   | 0 - 95%RH   |
| Cooling                             | -     | Convection  |
| Withstand Voltage                   | VAC   | Input to Output 4kVAC (2xMoPP), Input and Output to Ground 1.5kVAC (1xMoPP)                             |
| Safety Agency Certification         | -     | IEC/ES/CSA/EN60601-1, IEC/UL/CSA/EN60950-1, CE Mark   |
| Offload Power Consumption           | W     | < 0.15W   |
| EMC                                 | -     | IEC60601-1-2 Ed4:2014, EN55011 Class B, EN55032 Class B,<br>FCC Part 15 Class B, FCC Part 18 Class B    |
| Altitude                            | m     | 5,000m maximum  |
| Weight (Typ)                        | g     | 1300g   |
| Size (LxWxH)                        | mm    | 200 x 90 x 45mm   |
| Size (LxWxH)                        | in    | 7.874 x 3.543 x 1.77"   |
| Cable Length                        | mm    | 800mm   |
| AC Input Connector                  | -     | IEC 320-C14 (3 prong)   |
| Output Mating Connector             | -     | Molex Mini Fit 39-28-1063 or equivalent; Pins 1 - 3: -Vout, Pins 4 - 6: +Vout                           |
| Warranty                            | Years | Three Years   |

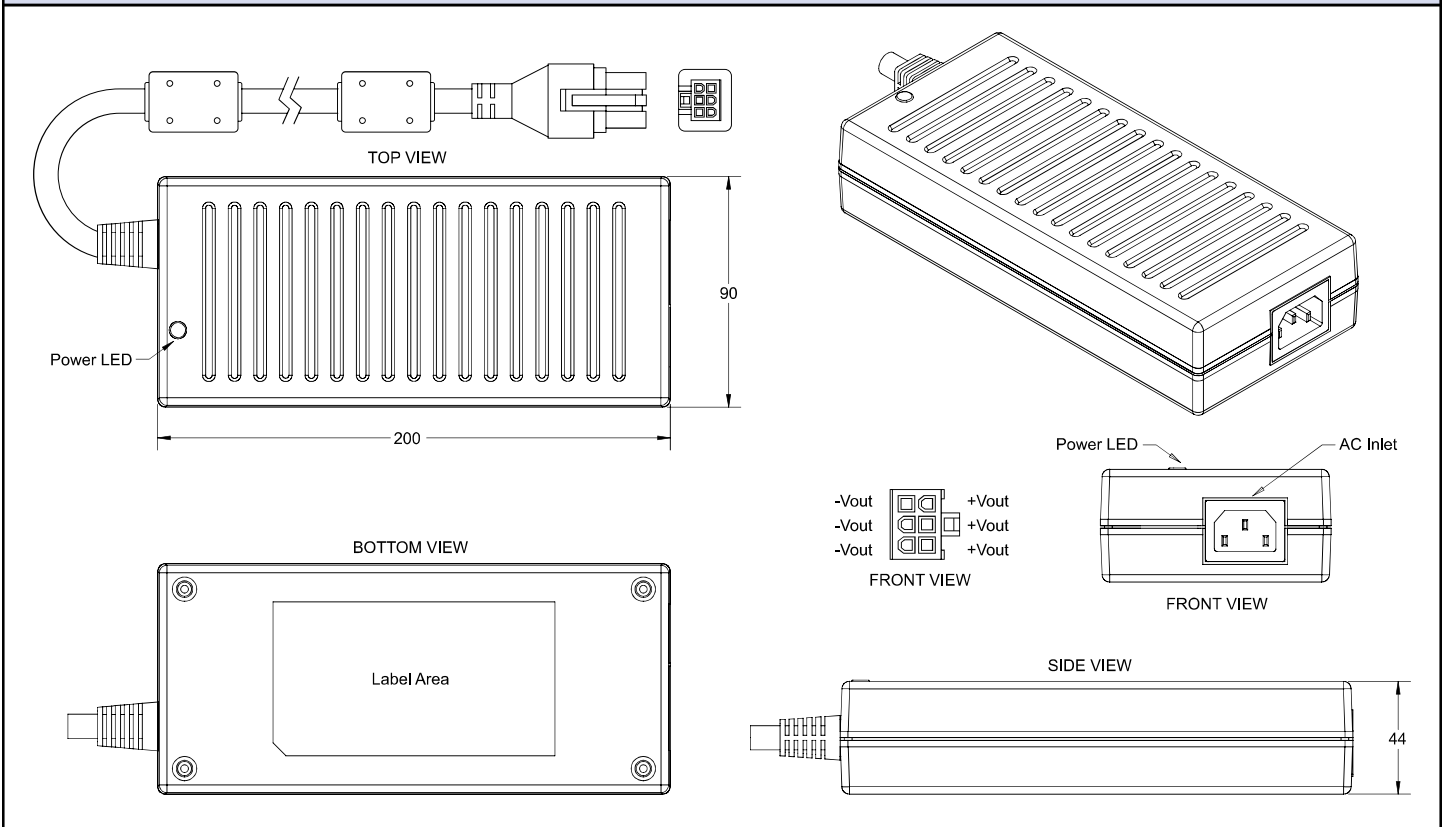
#### Notes:

Other connectors are available. Contact factory.

## Model Selector

| Model        | Output (V) | Maximum Output (A) | Maximum Power (W) |
|--------------|------------|--------------------|-------------------|
| DTM250PW120D | 12V        | 20.83A             | 250W              |
| DTM250PW190D | 19V        | 13.157A            | 250W              |
| DTM250PW240D | 24V        | 10.416A            | 250W              |
| DTM250PW280D | 28V        | 8.928A             | 250W              |
| DTM250PW360D | 36V        | 6.94A              | 250W              |
| DTM250PW480D | 48V        | 5.208A             | 250W              |
| DTM250PW540D | 54V        | 4.629A             | 250W              |

## Outline Drawing



For Additional Information, please visit  
<https://product.tdk.com/info/en/products/power/index.html>

