

40-65W Medical AC-DC External Power Supplies

Features

- ◆ Meets DoE Level VI & EU ErP Tier 2 v5 Efficiency
- ◆ Medical Certifications
- ◆ Class I Input
- ◆ < 0.15W Off-load Power Draw
- ◆ <100µA Touch Current



Key Market Segments & Applications



Medical

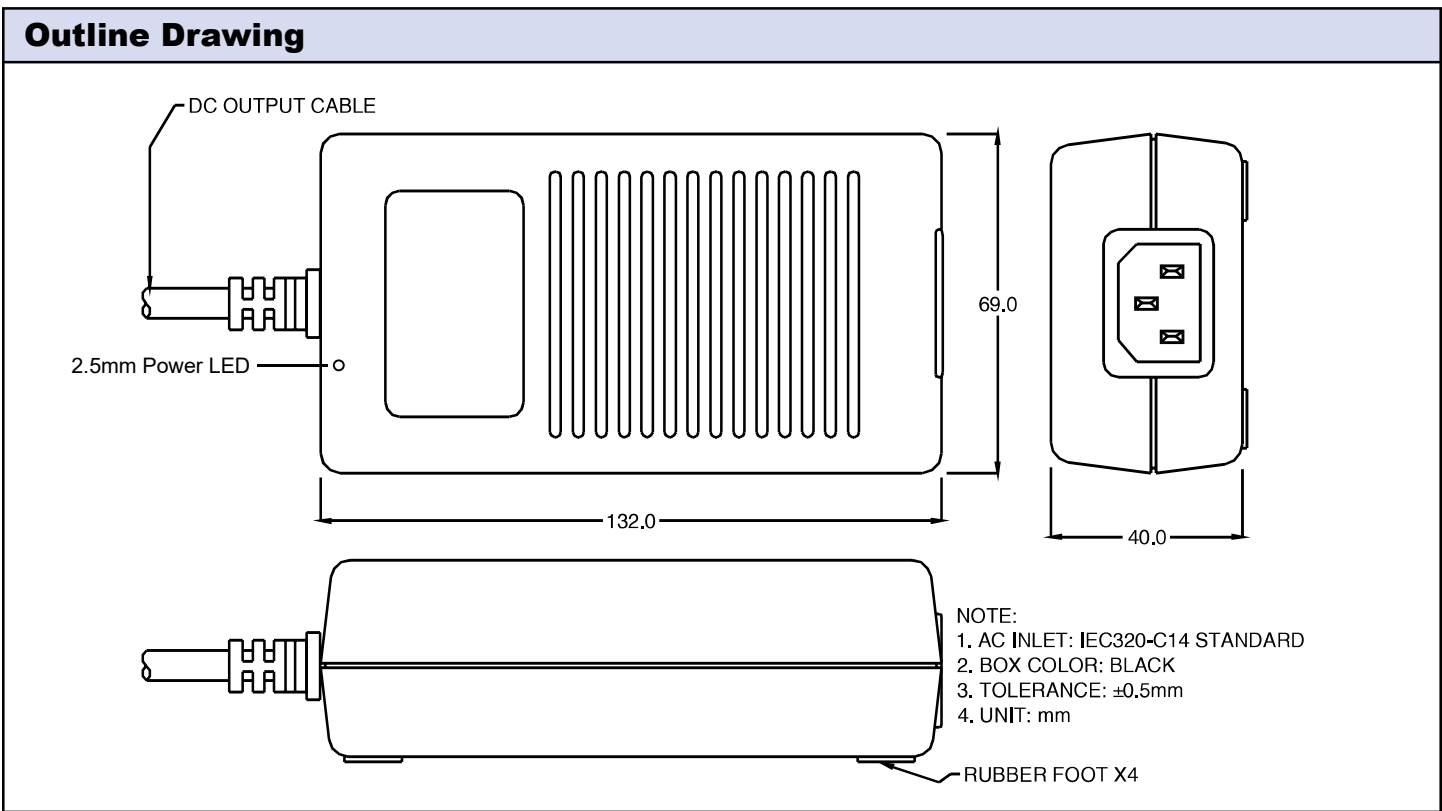


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Specifications

| Model | | |
|-------------------------------------|---------|---|
| Input Voltage range | - | 90 - 264VAC (47 - 63Hz) |
| Inrush Current | A | <50A at 115VAC, <90A at 230VAC input, 25°C ambient cold start |
| Input Current | A | 2A at 90VAC, Full Load |
| Offload Power Consumption | W | < 0.15W |
| Touch Current | µA | <100µA |
| Leakage Current | µA | <300µA |
| Power Factor | - | None |
| Hold Up Time | ms | >10ms at 115VAC input |
| Temperature Coefficient | - | ±0.05%/°C |
| Voltage Accuracy | % | Included in total regulation specification |
| Adjustment Range | - | None |
| Minimum Load | A | None |
| Total Regulation | % | 5V to 15V Models:±5%, >15V models ±3% |
| Ripple & Noise | mV | 1% pk-pk or 120mV whichever is greater |
| Overload & Short Circuit Protection | - | Continuous - hiccup mode |
| Overvoltage Protection | % | 110 - 170% of nominal (Cycle input power to reset) |
| Overtemperature Protection | - | Yes (Cycle input power to reset) |
| Efficiency | % | >89%, average efficiency (5V model: 87.3%) |
| Operating Temperature | °C | -20 to +60°C derate linearly to 75% load from 51 to 60°C |
| Storage Temperature | °C | -20 to +85°C |
| Humidity (non condensing) | %RH | 10 - 90% RH |
| Cooling | - | Convection |
| Withstand Voltage | VAC | Input to Ground 1.5kVAC, Input to Output 4kVAC (2xMOPPs), (Output is connected to Ground) |
| Vibration (non operating) | - | 23.52m/s ² (10 - 55Hz: constant sweep 1 min X, Y, Z for 1 hour) |
| Shock | - | < 196.1 m/s ² (20G) |
| Safety Agency Certifications | - | UL/CSA/IEC/EN 60601-1, ANSI/AAMI ES60601-1, CE Mark |
| Altitude | m | 5,000m |
| Offload Power Consumption | W | < 0.15W |
| EMC | - | EN55011B, EN60601-1-2, FCC Part 18 Class B |
| Immunity | - | IEC60601-1-2 Ed4:2014/2015 |
| Weight (Typ) | g | 390g |
| Size (WxLxH) | in (mm) | 2.72 x 5.2 x 1.57" (69 x 132 x 40mm) |
| Cable Length | mm | 1050mm (5V model: 600mm) |
| AC Input Connector | - | IEC 320-C14 (Accepts IEC 320-C13) |
| Output Connector | - | Kycon KPPX-4P or equivalent; Pins 1 & 2: -Vout, Pins 3 & 4: +Vout |
| Warranty | yrs | Three Years |

| Output Ratings | | | | | |
|-----------------------|------------|--------------------|-------------------|------------------|--------|
| Model | Output (V) | Maximum Output (A) | Maximum Power (W) | Efficiency Level | EU ErP |
| DTM65PW050D | 5 | 8 | 40 | VI | Tier 2 |
| DTM65PW120D | 12 | 5 | 60 | VI | Tier 2 |
| DTM65PW150D | 15 | 4 | 60 | VI | Tier 2 |
| DTM65PW190D | 19 | 3.42 | 65 | VI | Tier 2 |
| DTM65PW240D | 24 | 2.71 | 65 | VI | Tier 2 |
| DTM65PW280D | 28 | 2.32 | 65 | VI | Tier 2 |
| DTM65PW360D | 36 | 1.81 | 65 | VI | Tier 2 |
| DTM65PW480D | 48 | 1.35 | 65 | VI | Tier 2 |



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

