

100-150W AC-DC External Power Supplies

Features

- ◆ CEC, EISA¹ & ErP Stage 2 Compliant
- ◆ Wide Range AC Input
- ◆ Power Factor Correction
- ◆ Low Profile & Lightweight
- ◆ 87% Avg. Active Efficiency



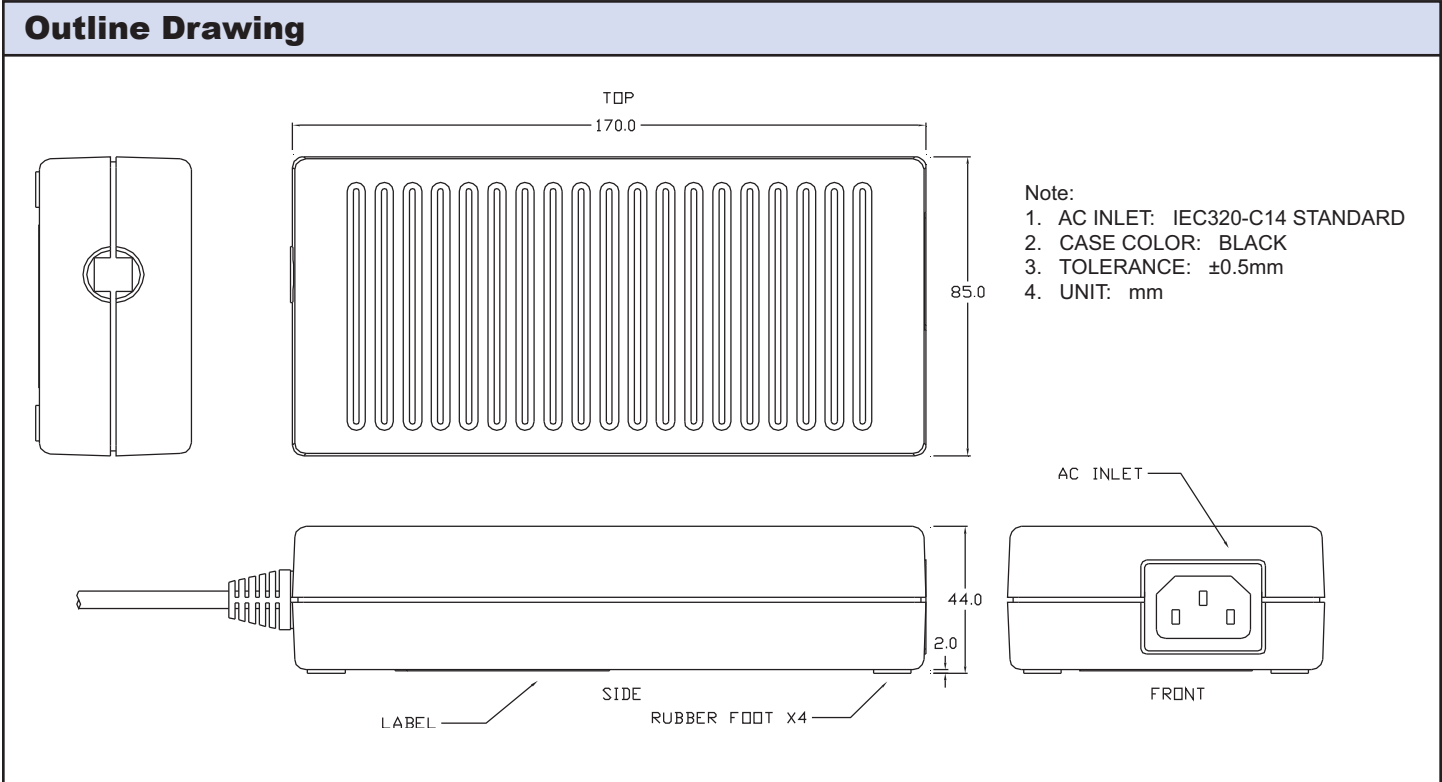
Key Market Segments & Applications



| Specifications | | | |
|------------------------------------|----|--|--------------|
| Model | | DT100PWxxx-C | DT150PWxxx-C |
| Input Voltage range | - | 90 - 264VAC (47 - 63Hz) | |
| Inrush Current | A | <60A at 230VAC input, 25°C ambient cold start | |
| Input Current (Maximum) | A | 2.5A | |
| Power Factor | - | Typically 0.9 at full load (Meets EN61000-3-2) | |
| Leakage Current | µA | <600uA at 264VAC 60Hz | |
| Hold Up Time (Typ) | ms | 16ms at 115VAC input | |
| Temperature Coefficient | - | ±0.05%/°C | |
| Voltage Accuracy | % | ±1% | |
| Adjustment Range | - | None | |
| Minimum Load | A | None | |
| Total Regulation | - | +5% / -2% | |
| Ripple & Noise | % | See model selector | |
| Short Circuit Protection | - | Continuous - hiccup mode | |
| Overvoltage Protection | V | 110 - 130% of nominal (Cycle input power to reset) | |
| Efficiency | % | ≥87% Avg. Active Efficiency | |
| Operating Temperature | °C | 0 to +60°C (Derate linearly 2.5% per °C from 41 to 60°C), -20°C startup | |
| Storage Temperature | °C | -10 to +70°C | |
| Humidity (non condensing) | - | 20 - 90% RH | |
| Cooling | - | Convection | |
| Withstand Voltage | - | Input to Ground 1.5kVAC, Input to Output 3kVAC for 1 min. (Output is connected to Ground internally) | |
| Isolation Resistance | - | >20M at 25°C & 70%RH, Output to Ground 500VDC | |
| 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 Approvals | - | UL60950-1, EN609501-1, IEC60950-1 | |
| California Energy Commission (CEC) | - | Efficiency Mark V | |
| EISA | - | Efficiency Mark V | |
| Offload Power Consumption | - | < 0.5W | |
| Conducted & Radiated EMI | - | EN55022-B, FCC Class B | |
| Immunity | - | EN55024 | |
| Weight (Typ) | g | 730g | 780g |
| Size (WxLxH) | in | 3.35 x 6.7 x 1.73" | |
| Cable Length & Thickness | mm | 1050mm; 12 to 24V Models: #14 AWG, 36 to 48V Models: #16 AWG | |
| 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 | |
| MTBF | - | 140,000 hours, 100% load, 25°C ambient, MIL-HNBK | |
| Warranty | yr | One Year | |

(1) EISA - Energy Independence and Security Act of 2007

| Output Ratings | | | | | | |
|-----------------------|------------|--------------------|-------------------|---------------------|-------|-------------------------|
| Model | Output (V) | Maximum Output (A) | Maximum Power (W) | Ripple & Noise (mV) | CEC V | EISA Efficiency Level V |
| DT100PW120C | 12 | 8.34 | 100 | 240 | Y | Y |
| DT100PW160C | 16 | 6.25 | 100 | 320 | Y | Y |
| DT100PW190C | 19 | 5.27 | 100 | 380 | Y | Y |
| DT100PW240C | 24 | 4.17 | 100 | 480 | Y | Y |
| DT100PW360C | 36 | 2.78 | 100 | 480 | Y | Y |
| DT100PW480C | 48 | 2.09 | 100 | 480 | Y | Y |
| DT150PW120C | 12 | 11.67 | 140 | 240 | Y | Y |
| DT150PW160C | 16 | 9.38 | 150 | 320 | Y | Y |
| DT150PW190C | 19 | 7.90 | 150 | 380 | Y | Y |
| DT150PW240C | 24 | 6.25 | 150 | 480 | Y | Y |
| DT150PW360C | 36 | 4.17 | 150 | 480 | Y | Y |
| DT150PW480C | 48 | 3.13 | 150 | 480 | Y | Y |



| Other AC-DC Products | |
|-----------------------------|-------------------------------------|
| DT62-C | 62W CEC Compliant Adapters |
| DTM65-C | 65W CEC Compliant Medical Adapters |
| DT80-C | 80W CEC Compliant Adapters |
| DTM110-C | 110W CEC Compliant Medical Adapters |

For Additional Information, please visit us.tdk-lambda.com/lp/products/dt-series.htm

