



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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



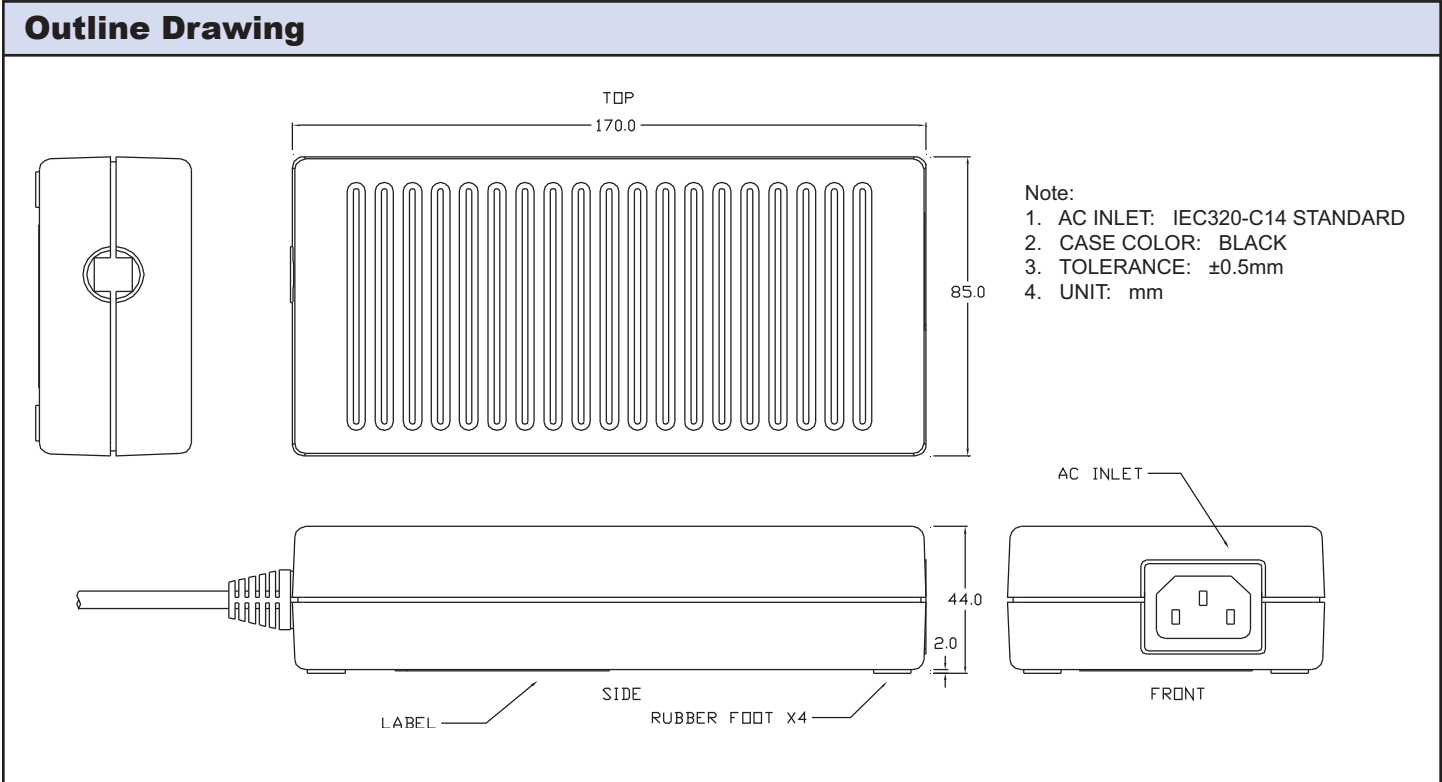
Key Market Segments & Applications



| 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 | <600µA 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

