

## 100-150W AC-DC External Power Supplies

### Features

- ◆ CEC, EISA<sup>1</sup> & ErP Stage 2 Compliant
- ◆ Wide Range AC Input
- ◆ Power Factor Correction
- ◆ Low Profile & Lightweight
- ◆ 87% Avg. Active Efficiency

### Key Market Segments & Applications



### Specifications

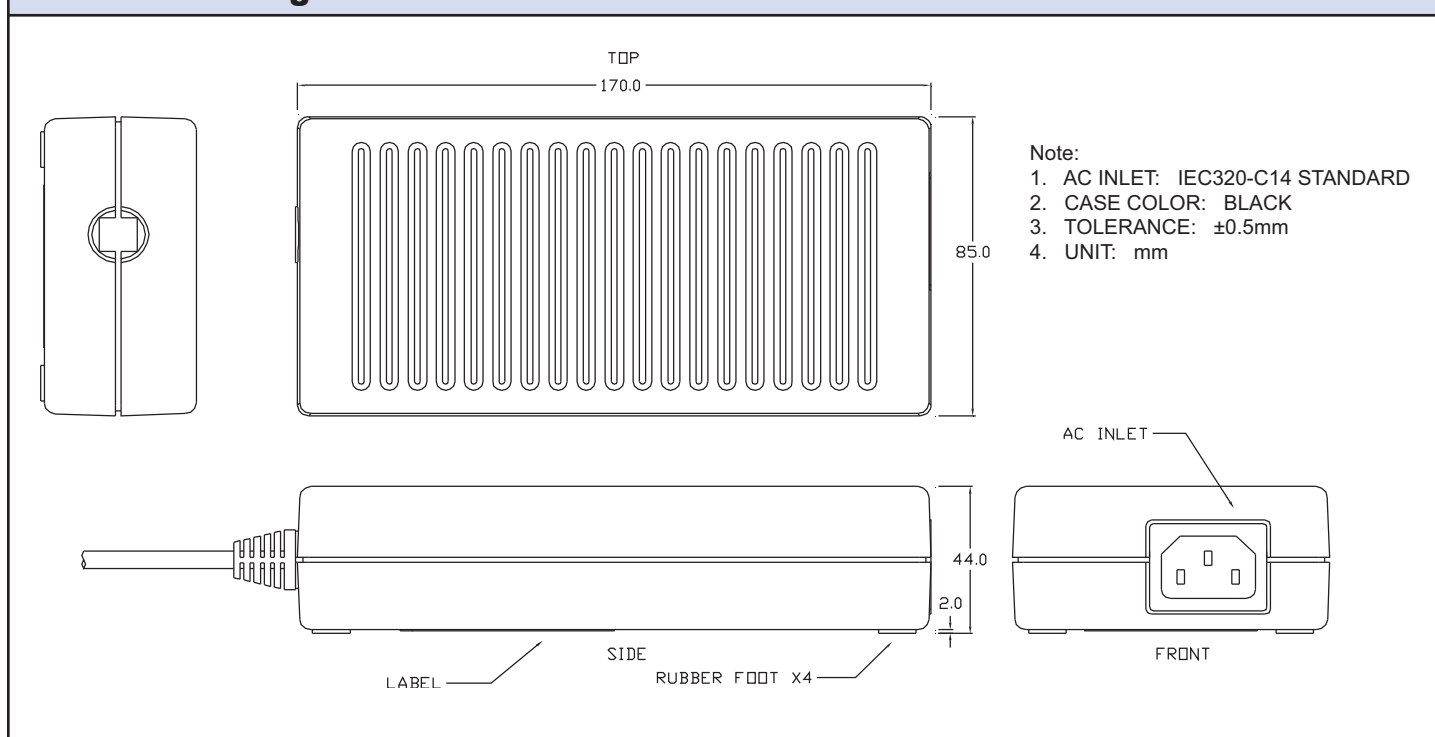
| Model                              |    | DT100PWxxx-C                                                                                         | DT150PWxxx-C |
|------------------------------------|----|------------------------------------------------------------------------------------------------------|--------------|
| 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 <sup>2</sup> (10 - 55Hz: constant sweep 1 min X, Y, Z for 1 hour)                           |              |
| Shock                              | -  | < 196.1 m/s <sup>2</sup> (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                       |

## Outline Drawing



## 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](http://us.tdk-lambda.com/lp/products/dt-series.htm)



# AMEYA360

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