TDK·Lambda

DT100/150-C

100W to 150W AC-DC External Power Supplies



- CEC, Energy Star 2.0, and EISA[1] Compliant Models
- Wide Range AC Input
- Power Factor Correction
- Low Profile & Lightweight

RoHS

ENERGY STAR

Features and Benefits

Feature	Benefit
◆ CEC and Energy Star Compliant	◆ Easier system compliance
◆ Wide Range AC Input	◆ Global Operation
◆ ≥ 87% Avg. Active Efficiency	◆ Consumes less energy

Specifications

ITEMS / MODELS		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	TBA	
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 +40°C	
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, Output to Ground xxVDC for 1 min.	
Isolation Resistance	-	>20M at 25°C & 70%RH, Output to Ground 500VDC	
Vibration (non operating)	-	23.52m/s² (10 - 55Hz: constant sweep 1 min X, Y, Z for 1 hour)	
Shock	-	< 196.1 m/s² (20G)	
Safety Agency Approvals	-	UL60950-1, EN609501-1, IEC60950-1	
California Energy Commission (CEC)	-	Efficiency Mark V	
Energy Star / EISA	-	Efficiency Mark V	
Offload Power Consumption	-	< 0.5W	
Conducted & Radiated EMI	-	EN55022-B, FCC Class B	
Immunity	-	EN55024	
Weight (Typ)	g	TBA	
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 KPP-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

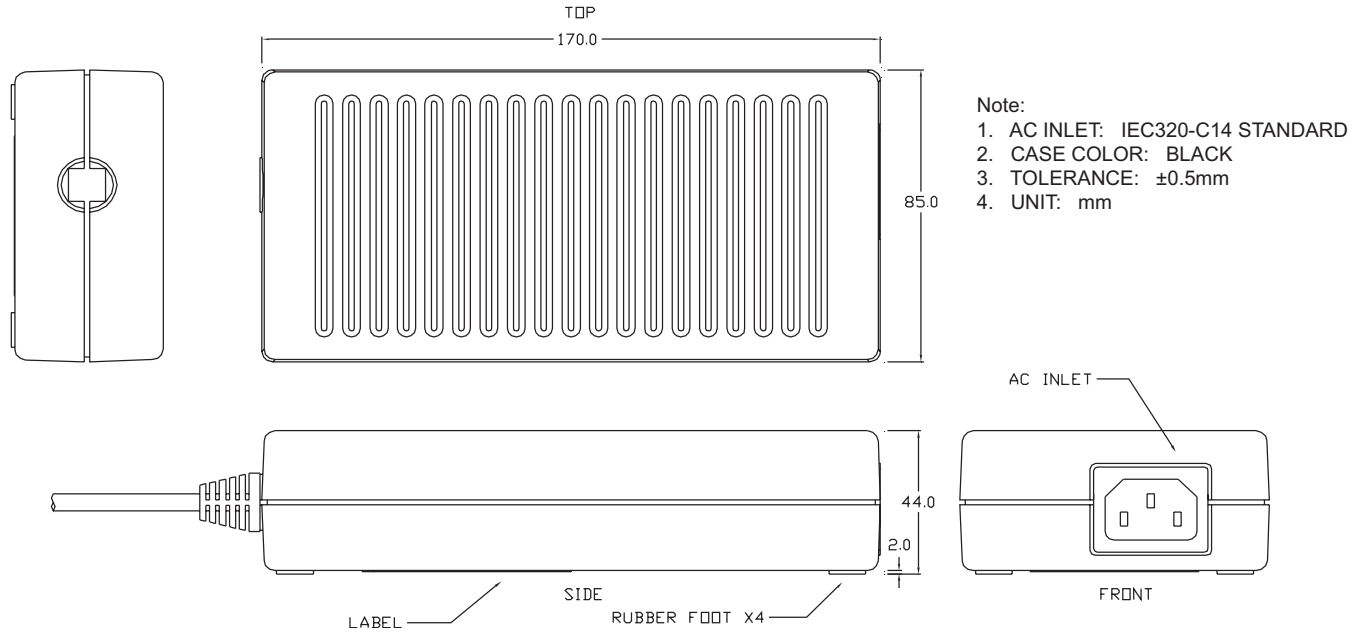
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Output Ratings

Model	Output (V)	Maximum Output (A)	Maximum Power (W)	Ripple & Noise (mV)	CEC V	Energy Star 2.0 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 Drawings



Note:
1. AC INLET: IEC320-C14 STANDARD
2. CASE COLOR: BLACK
3. TOLERANCE: ±0.5mm
4. UNIT: mm

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

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