

100W to 150W AC-DC External Power Supplies

Features

- ◆ DOE level VI and EU tier 2 Efficiency Levels
- ◆ >89% Average Efficiency
- ◆ <150mW Off-load Power Draw
- ◆ Wide Range AC Input
- ◆ Power Factor Correction



Key Market Segments & Applications



Specifications

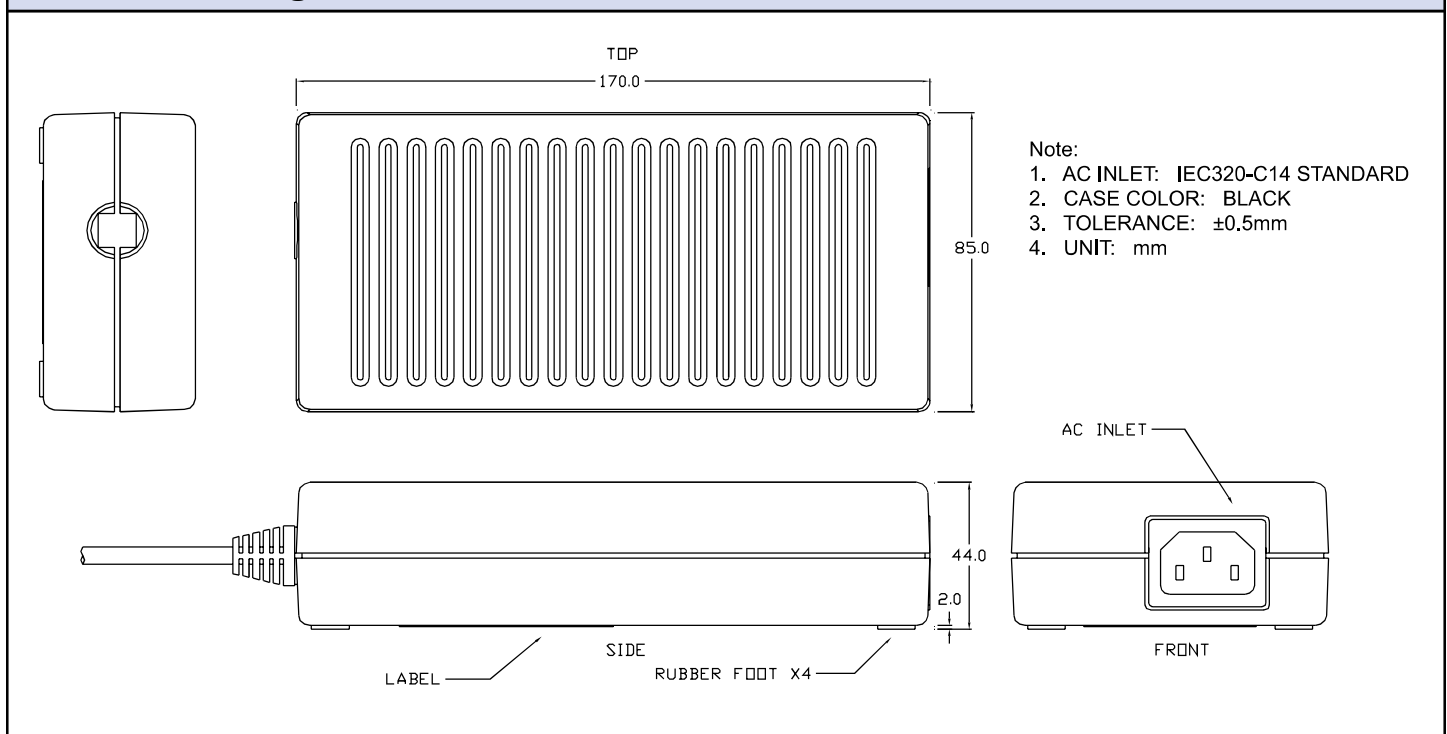
Model		DT100PWxxx-D	DT150PWxxx-D
Input Voltage range	-	90 - 264VAC (47 - 63Hz)	
Inrush Current	A	< 150A at 230VAC input, 25°C ambient cold start	
Input Current (Maximum)	A	2.5A	
Power Factor	-	Typically 0.9 at full load, 230VAC (Meets EN61000-3-2)	
Leakage Current	uA	<300uA at 264VAC input	
Hold Up Time (Typ)	ms	16ms at 115VAC input	
Temperature Coefficient	%/°C	±0.05%/°C	
Voltage Accuracy	%	±1%	
Adjustment Range	V	None	
Minimum Load	A	None	
Total Regulation	%	See model selector	
Ripple & Noise	%	See model selector	
Short Circuit Protection	-	Continuous - hiccup mode	
Overvoltage Protection	V	110 - 130% of nominal (Cycle input power to reset)	
Efficiency	%	>89% Avg Active Efficiency	
Operating Temperature	°C	-20 to +60°C, de-rate linearly to 50% load from 40 to 60°C	
Storage Temperature	°C	-20 to +70°C	
Humidity (non condensing)	%RH	10 - 90%RH	
Cooling	-	Convection	
Withstand Voltage	VAC	Input to Ground 1.5kVAC, Input to Output 3kVAC, 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	-	UL/CSA/EN/IEC62368-1, UL/CSA/EN/IEC60950-1, CE Mark	
Efficiency Level	-	VI	
Offload Power Consumption	W	< 0.15W	
Conducted & Radiated EMI	-	EN55022-B, FCC Class B	
Immunity	-	EN55024	
Weight (Typ)	g	780g	
Size (WxLxH)	mm (in)	85 x 170 x 44 (3.35 x 6.7 x 1.73")	
Cable Length and 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	hrs	140,000 hours, 100% load, 25°C ambient, MIL-HNBK	
Warranty	yrs	Three years	

* Versions available for output to be internally connected to ground. Contact factory.

Output Ratings

Model	Output (V)	Maximum Output (A)	Maximum Power (W)	Output Regulation	Ripple & Noise (mV)
DT100PW120D	12	8.34	100	±5%	240
DT100PW160D	16	6.25	100	±5%	320
DT100PW190D	19	5.27	100	±5%	380
DT100PW240D	24	4.17	100	±3%	480
DT100PW360D	36	2.78	100	±3%	480
DT100PW480D	48	2.09	100	±3%	480
DT150PW120D	12	11.67	140	±5%	240
DT150PW160D	16	9.38	150	±5%	320
DT150PW190D	19	7.90	150	±5%	380
DT150PW240D	24	6.25	150	±3%	480
DT150PW360D	36	4.17	150	±3%	480
DT150PW480D	48	3.13	150	±3%	480

Outline Drawing



Other TDK-Lambda Adapters

DT62-D	65W Level VI Compliant Adapters
DTM65-C	65W Level V Compliant Medical Adapters
DT80-D	80W Level VI Compliant Adapters
DTM110-C	110W Level V Compliant Medical Adapters
DTM165-C	165W Level V Compliant Medical Adapters

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

