

## 40-80W AC-DC External Power Supplies



Industrial



Broadcast



Test



COMM

Ranging from 40 to 80W, these DT62/80-D external power supplies are certified to UL/CSA/EN/IEC62368-1 and comply with DoE Level VI Efficiency. In addition to satisfying Energy Efficiency Level VI with an average efficiency of greater than 89% and an off-load power draw of less than 150mW, the products also meet EU CoC Tier 1 or Tier 2 requirements. All units meet EN 55032-B, FCC Class B conducted & radiated emissions and EN55024 immunity standards.

Features	Benefits
• EU CoC Tier 2 & DoE Level VI Compliant	• Meets US and EU Energy Saving Legislation
• Wide Range AC Input (90-264VAC)	• Global Operation
• >89% Average Efficiency	• Consumes Less Energy
• Rugged Non-Vented Enclosure	• Suitable for Harsh Industrial Environment
• Alternative Connectors and Cable Assemblies	• Flexible System Integration

Model Selector						
Model	Output Voltage (V)	Maximum Current (A)	Maximum Power (W)	Oversvoltage Protection (V)	DoE Level / EU CoC V.5	Ripple & Noise (mVpk-pk)
DT62PW050D	5	8.0	40	5.5 - 8.5	VI* / Tier 1*	50
DT62PW080D	8	5.0	40	8.8 - 13.0	VI* / Tier 1*	80
DT62PW120D	12	5.41	65	13.2 - 17.4	VI / Tier 2	120
DT62PW150D	15	4.33	65	16.5 - 21.0	VI / Tier 2	150
DT62PW190D	19	3.43	65	20.9 - 28.0	VI / Tier 2	190
DT62PW240D	24	2.71	65	26.4 - 31.2	VI / Tier 2	240
DT62PW360D	36	1.81	65	39.6 - 52.2	VI / Tier 2	240
DT62PW480D	48	1.36	65	52.8 - 67.5	VI / Tier 2	240
DT80PW090D	9	8.0	72	9.90 - 11.7	VI* / Tier 1*	240
DT80PW120D	12	6.67	80	13.2 - 15.6	VI / Tier 2	240
DT80PW150D	15	5.34	80	16.5 - 19.5	VI / Tier 2	240
DT80PW180D	18	4.45	80	19.8 - 23.4	VI / Tier 2	240
DT80PW240D	24	3.34	80	26.4 - 31.2	VI / Tier 2	240
DT80PW280D	28	2.86	80	30.8 - 36.4	VI / Tier 2	240
DT80PW480D	48	1.67	80	52.8 - 60.0	VI / Tier 2	240

\*Product built after July 2016

DoE - Department of Energy

EU CoC V.5 - European Code of Conduct Version 5

DT	80PW	240	D
	62PW 40/65W Output Power 80PW 72/80W Output Power	050 5V Output Voltage (DT62 only) 080 8V Output Voltage (DT62 only) 090 9V Output Voltage (DT80 only) 120 12V Output Voltage 150 15V Output Voltage 180 18V Output Voltage (DT80 only) 190 19V Output Voltage (DT62 only) 240 24V Output Voltage 280 28V Output Voltage (DT80 only) 360 36V Output Voltage (DT62 only) 480 48V Output Voltage	

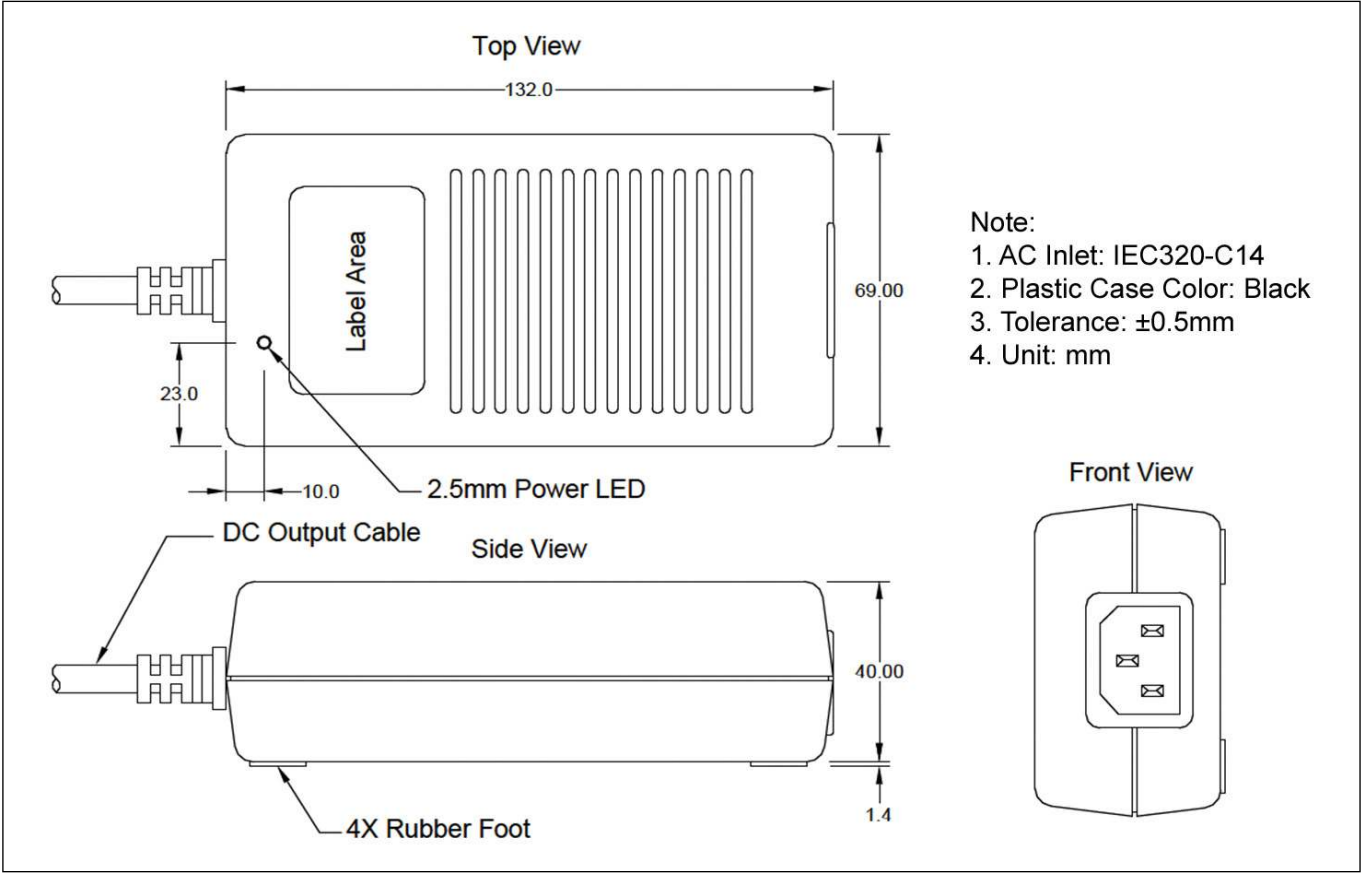
Specifications		
Model	DT62-D	DT80-D
<b>Input</b>		
Input Voltage range	Vac	90 - 264
Input Frequency	Hz	47 - 63
Input Current (90Vac)	A	2
Inrush Current at 230Vac (Cold Start)	A	<100 (25°C ambient)   <150 (25°C ambient)
Leakage Current (264Vac 60Hz)	uA	<700
Power Factor	-	Typically 0.9 at full load, 230VAC (Meets EN61000-3-2)
No Load Power Consumption	mW	<150
Hold Up Time (typ) at 115Vac Input	ms	10   20
Efficiency	%	>89% (>86.1% 5V, >87.6% 6-10V models)   >89% (>88% 9V model)
Conducted & Radiated EMI	-	EN55032-B, FCC Part 15 Class B
Immunity	-	EN55024
Safety Agency Certifications	-	UL/cUL/EN/IEC62368-1, UL/cUL/EN/IEC60950-1, CE Mark (LVD, EMC and RoHS)
<b>Output</b>		
Voltage Accuracy	%	±2
Output Voltage Adjustment	-	None
Switching Frequency (Full Load)	kHz	50 - 70   45 - 55
Total Regulation	%	±5
Ripple & Noise (1)	-	See Model Selector Table
Temperature Coefficient	%/°C	±0.05
Minimum Load	-	No minimum load required
Overcurrent Protection	%	170 (Auto-Recovery)   110 - 180 (Auto-Recovery)
Overvoltage Protection	-	See Model Selector Table (Cycle input power to reset)
Short Circuit Protection	-	Continuous - Hiccup Mode (Auto Recovery)
Parallel Operation	-	Not possible
<b>Environmental</b>		
Operating Temperature	°C	0 to +60, de-rate linearly to 50% load from 50 to 60   0 to +60, de-rate linearly to 50% load from 40 to 60
Storage Temperature	°C	-10 to +85
Humidity (non condensing)	%RH	10 - 90
Cooling	-	Convection
Altitude	m	2,000
Withstand Voltage (For 1 minute)	Vac	Input to Ground 1,500, Input to Output 3,000 (Output is connected to Ground)
IP Rating	-	IPX0
Vibration (non-operating)	m/s	223.52 (10 - 55Hz: constant sweep 1 min X, Y, Z for 1 hour)
Shock	m/s <sup>2</sup>	<196.1 (20G)
<b>Other</b>		
Weight (Typ)	g	400   440
Size (LxWxH)	mm	132 x 69 x 40
Size (LxWxH)	Inches	5.2 x 2.72 x 1.57
AC Input Connector	-	IEC 320-C14 (Accepts IEC 320-C13)
DC Output Connector	-	Kycon KPPx-4P or equivalent Pins 1 & 2: -Vout, Pins 3 & 4: +Vout
Cable Length & Thickness		1050mm; 5 to 8V Models: UL2464 #18 AWG   1050mm; 9 to 18V Models: UL11353 #14 AWG 19 to 48V Models: UL11353 #14 AWG   24 to 48V Models: UL11353 #16 AWG
MTBF (MIL-HDBK), 100% load, 25°C	hrs	140,000   120,000
Warranty	yrs	3

#### Notes

See website for detailed specifications, test methods and installation manual

(1) Ripple and noise is measured at 20MHz BW. Add 0.1uF ceramic capacitor and 10uF Electrolytic capacitor in parallel across the output

## Outline Drawing





## TDK-Lambda France SAS

Tel: +33 1 60 12 71 65  
france@fr.tdk-lambda.com  
www.emea.lambda.tdk.com/fr



## Italy Sales Office

Tel: +39 02 61 29 38 63  
info.italia@it.tdk-lambda.com  
www.emea.lambda.tdk.com/it



## Netherlands

info@nl.tdk-lambda.com  
www.emea.lambda.tdk.com/nl



## TDK-Lambda Germany GmbH

Tel: +49 7841 666 0  
info.germany@de.tdk-lambda.com  
www.emea.lambda.tdk.com/de



## Austria Sales Office

Tel: +43 2256 655 84  
info@at.tdk-lambda.com  
www.emea.lambda.tdk.com/at



## Switzerland Sales Office

Tel: +41 44 850 53 53  
info@ch.tdk-lambda.com  
www.emea.lambda.tdk.com/ch



## Nordic Sales Office

Tel: +45 8853 8086  
info@dk.tdk-lambda.com  
www.emea.lambda.tdk.com/dk



## TDK-Lambda UK Ltd.

Tel: +44 (0) 12 71 85 66 66  
powersolutions@uk.tdk-lambda.com  
www.emea.lambda.tdk.com/uk



## TDK-Lambda Ltd.

Tel: +9 723 902 4333  
info@tdk-lambda.co.il  
www.emea.lambda.tdk.com/il



## C.I.S.

### Commercial Support:

Tel: +7 (495) 665 2627

### Technical Support:

Tel: +7 (812) 658 0463  
info@tdk-lambda.ru  
www.emea.lambda.tdk.com/ru



## TDK-Lambda Americas

Tel: +1 800-LAMBDA-4 or 1-800-526-2324  
powersolutions@us.tdk-lambda.com  
www.us.lambda.tdk.com



## TDK Electronics do Brasil Ltda

Tel: +55 11 3289-9599  
sales.br@tdk-electronics.tdk.com  
www.tdk-electronics.tdk.com/en



## TDK-Lambda Corporation

Tel: +81-3-6778-1113  
www.jp.lambda.tdk.com



## TDK-Lambda (China) Electronics Co. Ltd.

Tel: +86 21 6485-0777  
powersolutions@cn.tdk-lambda.com  
www.lambda.tdk.com.cn



## TDK-Lambda Singapore Pte Ltd.

Tel: +65 6251 7211  
tis.mkt@sg.tdk-lambda.com  
www.sg.lambda.tdk.com



## TDK India Private Limited, Power Supply Division

Tel: +91 80 4039-0660  
mathew.philip@in.tdk-lambda.com  
www.sg.lambda.tdk.com

