

105-110W Medical/ITE Class II AC-DC External Power Supplies

<https://product.tdk.com/en/power/dtm>

www.emea.lambda.tdk.com/dtm



Medical



Industrial



Test



COMM



Broadcast

The DTM110-C8 Class II 105 to 110W external power supplies are certified to IEC/ES/CSA/EN60601-1, IEC60601-1-11, IEC/UL/CSA/EN62368-1 and are compliant to IEC60601-1-2 (Ed4). With an average efficiency of greater than 89% and an off-load power consumption of less than 0.15W, this series also complies with DoE Level VI and EU Tier 2 v5 standards for efficiency and off-load power. Requiring no earth ground, the DTM110-C8 series is ideally suited for a variety of hospital and home healthcare applications, plus industrial test, measurement and portable equipment.

Features

- Medical Safety Certifications and Immunity
- Meets DoE Level VI & EU Tier 2 Efficiency
- 4kVac (2xMOPP) Input to Output Isolation
- IP41 rated, Vent-free Enclosure
- Wide Range AC, Class II Input IEC320-C8

Benefits

- Suitable for Medical, Clinical and Home Healthcare Use
- Meets US and EU Energy Saving Legislation
- Suitable for B & BF Rated Equipment
- Suitable for Industrial Environments
- Global Operation, No Earth Ground Required

Model Selector

Model	Output Voltage (V)	Max Current (A)	Max Power (W)	Overvoltage Protection (V)	Output Regulation (%)
DTM110PW120C8	12	8.75	105	13.2 - 15.6	±5
DTM110PW150C8	15	7.34	110	16.5 - 19.5	±5
DTM110PW190C8	19	5.79	110	20.9 - 24.7	±5
DTM110PW240C8	24	4.59	110	26.4 - 31.2	±3
DTM110PW280C8	28	3.93	110	30.8 - 36.4	±3
DTM110PW360C8	36	3.06	110	39.6 - 46.8	±3
DTM110PW480C8	48	2.29	110	52.8 - 62.4	±3

DTM110PW

190

C8

120	12V Output Voltage
150	15V Output Voltage
190	19V Output Voltage
240	24V Output Voltage
280	28V Output Voltage
360	36V Output Voltage
480	48V Output Voltage

IEC C8 input connector

Specification		
Model		DTM110-C8
Input		
Input Voltage range	Vac	90 - 264
Input Frequency	Hz	47 - 63
Input Current (90Vac)	A	2
Inrush Current at 230Vac (Cold Start)	A	<120 (25°C ambient)
Touch Current	uA	<100
No Load Power Consumption	mW	<150
Hold Up Time (typ) at 115Vac Input	ms	10
Average Efficiency (1)	%	>89
Conducted & Radiated EMI	-	EN55011-B, EN55032-B, FCC Part 15 Class B, FCC Part 18 Class B
Immunity	-	EN60601-1-2, IEC60601-1-2 Ed4:2014
Insulation Class	-	Class II
Safety Agency Certifications	-	IEC/UL/CSA/EN60601-1, ANSI/AAMI ES60601-1, IEC/UL/CSA/EN62368-1, 60950-1, CE Mark (LVD, EMC and RoHS)
Output		
Output Voltage Adjustment	-	None
Switching Frequency (Full Load)	kHz	45 - 65
Total Regulation	-	See Model Selector Table
Ripple & Noise (2)	mVpk-pk	150
Temperature Coefficient	%/°C	±0.05
Minimum Load	-	No minimum load required
Overcurrent Protection	%	105 - 150 (Auto-Recovery)
Overvoltage Protection	-	See Model Selector Table (Cycle input power to reset)
Short Circuit Protection	-	Continuous - Hiccup Mode (Auto-Recovery)
Indicators	-	LED indicates DC output is on
Parallel Operation	-	Not possible
Environmental		
Operating Temperature	°C	-20 to +60 derate linearly to 50% load from 40 to 60 Derate linearly to 80% load from 0 to -20
Storage Temperature	°C	-20 to 85
Humidity (non condensing)	%RH	0 - 95
Cooling	-	Convection
Altitude	m	5,000
Withstand Voltage (For 1 minute)	Vac	Input to Output 4,000 (2xMOPP)
Isolation Resistance	MΩ	20
IP Rating	-	IP41
Vibration (Operating)	m/s ²	23.52 (10 - 55Hz: constant sweep 1 min X, Y, Z for 1 hour)
Shock	m/s ²	<196.1 (20G)
Other		
Weight (Typ)	g	780
Size (LxWxH)	mm	140 x 63 x 33
Size (LxWxH)	Inches	5.50 x 2.48 x 1.29
AC Input Connector	-	IEC 320-C8 (2 prong)
DC Output Connector (3)	-	Kycon KPPx-4P or equivalent Pins 1 & 2: -Vout, Pins 3 & 4: +Vout
Cable Length & Thickness		1000mm; 12 to 28V Models: UL2464 #16 AWG, 36 to 48V Models: UL2464 #18 AWG
MTBF (Bellcore TR-332), 100% load, 25°C	hrs	350,000
Warranty	yrs	3

Notes

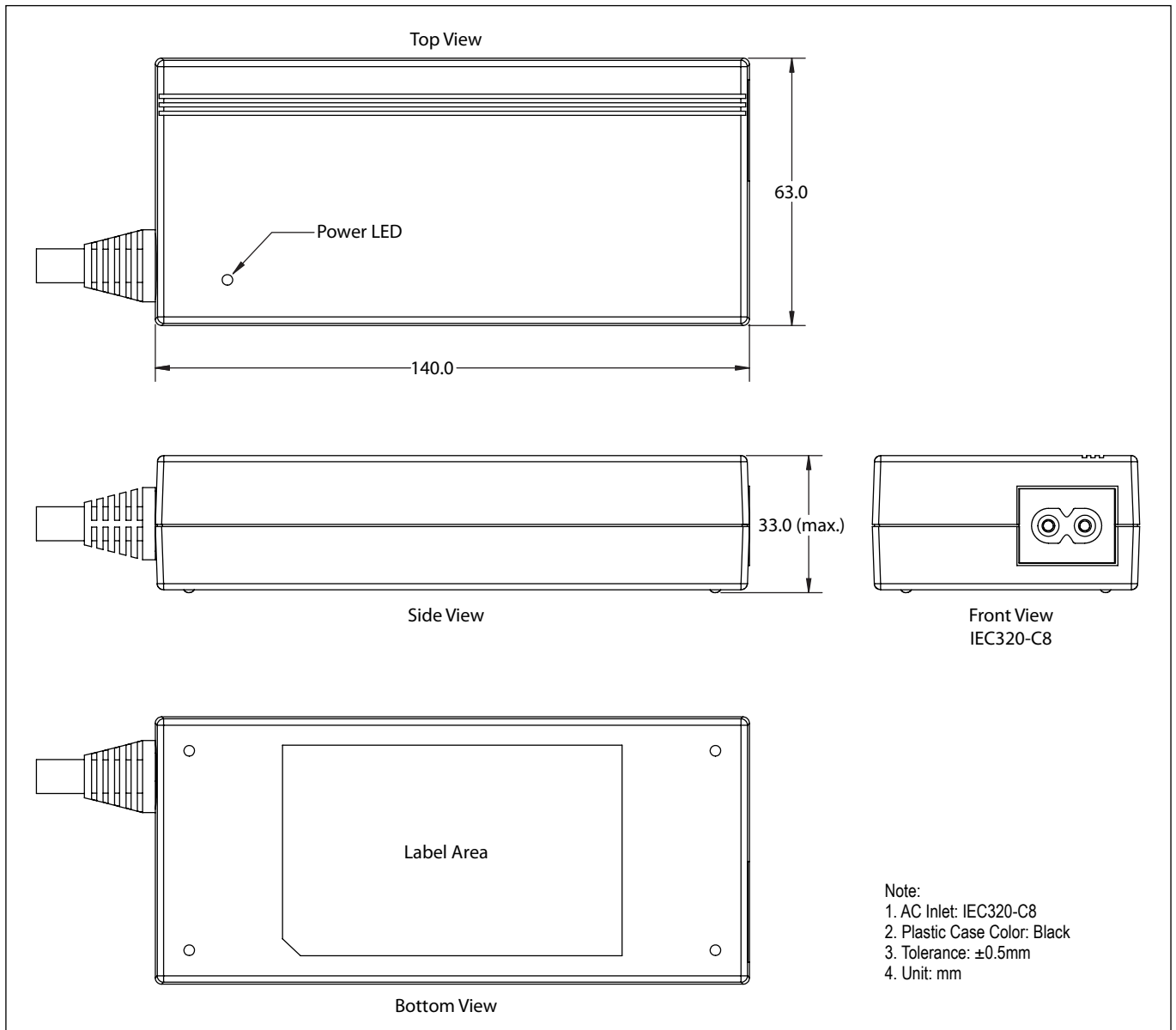
See website for detailed specifications, test methods and installation manual

(1) Measured at 25%, 50%, 75% and 100% load conditions

(2) Ripple and noise is measured at 20MHz BW. Add 0.1uF ceramic capacitor and 47uF Electrolytic capacitor in parallel across the output

(3) Other DC output connectors are available. Contact local sales office.

Outline Drawing





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