

FEATURES

DT60L Series

60W Desktop Power Supply

- High Efficiency: Meets Level V & COC V4.0
- Universal Input Voltage
- Class I – C14 & C6 Inlet Options
- Short Circuit, Over Voltage & Overload Protection
- UL/cUL60950, EN60950 & CE
- RoHS Compliant



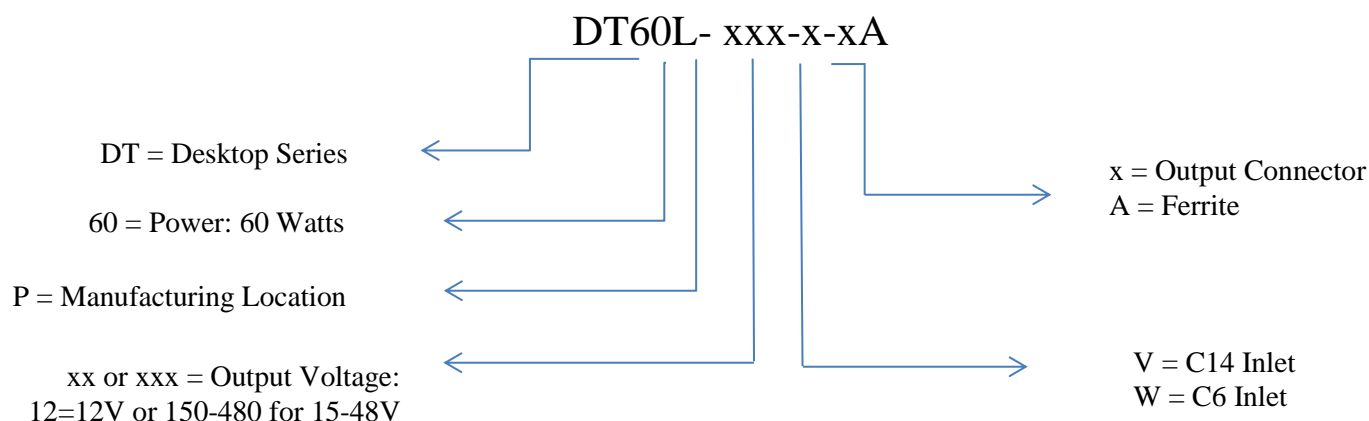
SPECIFICATION

Model		DT60L-xxx-x-xx (See part number builder below)	
Output	Rated Voltage (1)	12 & 13~48V (1V Increments)	
	Rated Power	60W	
	Ripple & Noise (2)	120mVp-p (12V model)	
	Current	0-5A (Max. 60W)	
	Total Regulation	+/- 5%	
	Overshoot/Undershoot	10%	
	Turn On Delay/Rise	3S / 50mS	
	Hold-up Time	5ms @ 115Vac/60Hz 80% load	
	Transient Response	2mS with a current change from 20% to 80% of maximum and 0.5A/uS slew rate in load	
Input	Rated Voltage	100 ~ 240 Vac (90-264Vac Operational)	
	Frequency Range	50Hz ~ 60Hz (47~63hZ Operational)	
	Efficiency	84% (Min.) 87% (Avg.) 12V model	
	Inrush Current	100A 264Vac input 25°C Cold Start	
	AC Current	1.4 A / 100Vac (Typ.)	
	Leakage Current	<3.5mA (Max. input voltage and load, Class I)	
Protections	Short Circuit	Hiccup mode, no damage shall occur and the power supply shall restart when the fault condition is removed	
	Over Voltage	Latch mode, recycle AC to restart power supply	
	Overload	Hiccup mode, at 140% (Max.) rated load and the power supply shall restart when the fault condition is removed	
Environment	Temperature Range	Operational	0°C ~ 40°C
		Storage	- 25 ~ +85°C
	Humidity	Operational	20% ~90% R.H
		Storage	20% ~90% R.H
Safety & EMC	Safety Standards	UL/cUL60950, TUV60950, & CE	
	No load Power Dissipation	< 0.5W	
	Insulation Resistance	Input to output: Min. 50M OHM at 500 VDC.	
	Dielectric Strength	Primary to Secondary & Primary to Ground: DC 4242 V , 3.5mA Max , for 3 seconds	
	Conducted & Radiated EMI	EN 55022 Class B, CISPR22 Class B and FCC part 15 Class B	
	EMS	EN 61000-4-2 (3), EN 61000-4-3 (4), EN 61000-4-4 (5), EN 61000-4-5 (6), EN 61000-4-6 (7), EN 61000-4-8 (8), EN 61000-4-11 (9)	

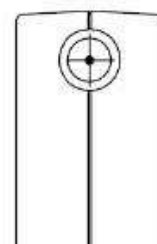
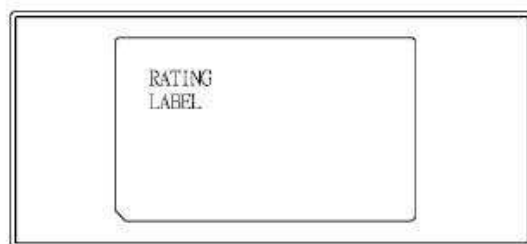
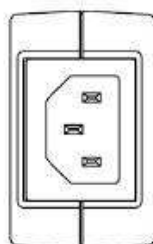
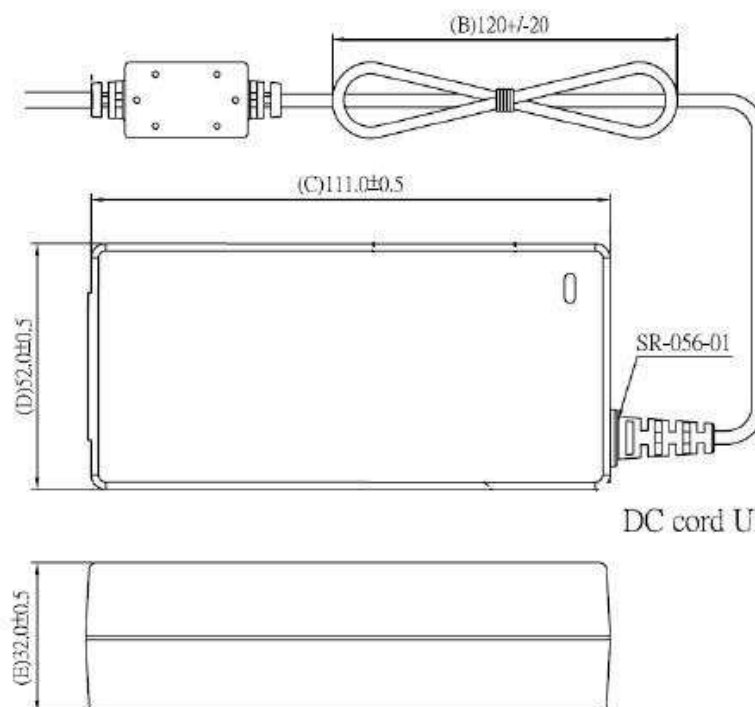


Others	MTBF	>40,000 hours 12V model (Measured at 110Vac input, 100% Load and 35°C ambient temperature (MIL-STD-217F))
	Burn-in	4 Hours (Min.) at 40C (+/-5%) at full load
	Dimension (L*W*H)	110 x 52 x 32mm (+/-0.5mm) 4.33 x 2.04 x 1.25in
	Output Cable	1800mm, includes ferrite bead
	Weight	300 g
	RoHS	Complies with EU Directive 2011/65/EU
	REACH	Compliant
	WEEE	Complies with EU Directive 2002/96/EC
	EISA 2007	Complies with requirements for external power supplies.
	EU	Complies with EU Code of Conduct on external power supplies
	ECO Design	Eco-design of EuP Lot 7 on external power supplies.
	Operational Vibration	1.0mm, 10 –55Hz, 15 minutes per cycle for each axis (X, Y, Z) Reference from IEC 60068-2-6.
	Non Operational	The power supply shall be designed to withstand normal transportation vibration per MIL-STD-810D, method 514 and procedures X, as it is mounted in the chassis assembly and packed for shipping.

PART NUMBER BUILDER



Mechanical Specification



Notes

1. Output voltage tolerance +/-5%
2. Max., Measuring is done by 20MHz bandwidth oscilloscope and terminated each output with a 22uF aluminum electrolytic capacitor and a 0.1uF ceramic capacitor. Full load, 25C ambient temperature at 115Vac and 230 Vac.
3. EN61000-4-2 Electrostatic Discharge (ESD)
Static – discharge test by contact or air should be conducted with Static – discharge teeter, energy storage capacitance of 150pF, and discharge resistance of 330Ω. 8KV air discharge, 4KV contact discharge, Performance Criterion B.
4. EN61000-4-3 RADIATED ELECTROMAGNETIC FIELDS(RS)
Radio- frequency Electromagnetic Field Susceptibility Test, RS, 80-1000MHz, 3V/m, 80%AM(1KHz), Performance Criterion A.
5. EN61000-4-4 Electrical Fast Transient / Burst (EFT) Power Line to Line: 1KV Performance Criterion B.
6. EN61000-4-5 Lightning Surge Attachment
Lightning Surge voltage of differential and common modes shall be applied across AC input lines and across input and frame ground. Power Line to Line: 1KV Line to Earth : 2KV Performance Criterion B.
7. EN61000-4-6 CONDUCTED RADIO FREQUENCY DISTURBANCES(CS) Conducted Radio Frequency Disturbances Test, CS, 0.15-80 MHz, 3Vrms, 80%AM, 1KHz, Performance Criterion A.
8. EN61000-4-8 POWER FREQUENCY MAGNETIC FIELD Power Frequency Magnetic Field Test, 50Hz, 3A/m Performance Criterion A.
9. EN61000-4-11 VOLTAGE DIPS/SHORT INTERRUPTION/VARIAIONS
Voltage Dips, 30% reduction- 10ms, Performance Criterion B, 60% Reduction – 100ms, Performance Criterion C, Voltage Interruptions>95% Reduction- 5000ms, Performance Criterion C.

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