

60 WATT QUAD OUTPUT SWITCHING ADAPTOR DTL60-4X-W

GENERAL SPECIFICATION

This specification describes the performance characteristics of a grounded, single phase 60 Watts (peak 70W) power adaptor with remote control input signal & +5V standby voltage output.



AC to DC Model No.: DTL60-4X-W
DC to DC Model No.: DTL60-4X-W-DC

1) INPUT

Description		Min.	Typical	Max.	Condition
Input Voltage	DTL60-4X-W	90VAC	115/230V	264VAC	Full Range; 50/60Hz
	DTL60-4X-W-DC	+10.8VDC ~ +26VDC			
Input Current(RMS)	DTL60-4X-W	2.0Amax. @ 115VAC 1.0A max. @ 90VAC			
	DTL60-4X-W-DC	8 A max.			
Line Frequency		47Hz	50/60Hz	63Hz	-
Inrush Current	DTL60-4X-W	60A 230VAC Cold Start			
	DTL60-4X-W-DC	-			
Efficiency		>70% at full load, 115VAC			

2) OUTPUT REQUIREMENT:

NOMINAL VOLTAGE		LIMIT VOLTAGE		AVERAGE LOAD		RIPPLE & NOISE	REGULATION
		MIN.	MAX.	MIN.	MAX.		
V1	+5V	4.75 V	5.25 V	2.0A	7.0A	50mV	±3%
				Peak 9A			
V2	+12V	11.40 V	12.6 V	0.2A	1.5A	120mV	±5%
V3	-12V	-10.80 V	-13.20 V	0A	0.3A	120mV	±5%
V4	+5Vsb	4.85 V	5.15 V	0A	0.75A	50mV	±3%

NOTE: 20MHz bandwidth ripple & noise is measured by using 0.1uF C.C. & 10uF/50V E.C. bypassed at the output connector.

2.2) HOLD UP TIME

DTL60-4X-W: 16ms at full load @ 115VAC

DTL60-4X-W-DC: 16ms at full load @ 10.8VDC

3) PROTECTION:

3.1) OVER VOLTAGE PROTECTION:

If any over voltage occurs, the power supply should latch off before any output exceeds its limit below:

NOMINAL VOLTAGE(V)	OVERVOLTAGE RANGE(V)	
	FROM	TO
+5	5.6	6.5

The power supply will be automatically recovered after the over voltage fault being removed.

3.2) SHORT CIRCUIT PROTECTION

Any short circuit occurred on any DC output should not cause any damage to the power supply, but will shut down the power supply. The power supply will not be automatically recovered after the short circuit being removed. A manual power reset is necessary.

3.3) OVERLOAD PROTECTION

An over load protection will be effected when overloading reaches 120% ~ +160% MAX.
The power supply will be automatically recovered after the overload being removed.

3.4) VIBRATION:

10-55Hz amplitude (sweep 1 min.) less than 2G X, Y, Z 1 hour ea.

3.5) SHOCK: <20G

4) ENVIRONMENT:

4.1) Operating temperature:

Temperature 0 to +45 °C
Relative Humidity 20 to 90 percent, non-condensing

4.2) SHIPPING AND STORAGE:

Temperature -20 to +70°C
Relative Humidity 20 to 90 percent, non-condensing

5) SAFETY REQUIREMENTS (MEET)

The adapter must comply with UL/CSA/TUV/CE/IEC950 standards.

5.1) DIELECTRIC WITHSTAND

--- Primary to Secondary : 3000 VAC for 60 Sec.
--- Primary to Frame Ground : 1500 VAC for 60 Sec.

5.2) INSULATION RESISTANCE

--- Primary to Secondary : 50 Meg. Ohms Min. 500 VDC
--- Primary to Frame Ground : 20 Meg. Ohms Min. 500 VDC.

6) **ELECTROMAGNETIC COMPABILITY**

Tests for conformance to this requirements will be performed with host system.

6.1) **FCC Requirements**

The adapter shall comply with the FCC rules and regulations Part 15, Subpart J, "Class B" limits.

6.2) **CE Requirements**

The adapter shall confirm to the "Class B" requirements of EN55022.

7) **RELIABILITY**

MTBF: 80,000 hours min. at max. load for 25 degree centigrade ambient temperature.

8) **BURN-IN TEST**

100% burn-in tested at max. load under 40 +/-5 degree centigrade.

9) **MECHANICAL DIMENSION**

Outside dimension: 155.0(L) X 85(W) X 50(H)mm

Input connector: IEC320-C13

Output connector: Depends on your requirements.

