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## LEDTA-6

### 24 Watt Power Supply and Adapter for LED Tubing 2.1mm I.D. x 5.5mm O.D. Plug

#### **Description:**

This document introduces the electrical, mechanical and environmental specifications of a switching power supply.



#### **Features:**

- Includes LEDTA-3 Power Supply Adapter

#### **INPUT REQUIREMENT:**

Item	Specification	Min	Typ	Max
Normal AC Input Voltage	Single Phase	100VAC	110VAC/220VAC	240VAC
AC Input Voltage Range	Single Phase	90VAC	110VAC/220VAC	264VAC
AC Input Frequency	Single Phase	47Hz	50/60Hz	63Hz
AC Input Current	Typical Input Voltage & Output at Full Load	-	-	550mA
AC Inrush Current	Typical Inputs Voltage & Output at Full Load, +25°C	-	-	30A
Average Efficiency	Typical Input Voltage & Output at (Standard Load)	82.09%	-	-

#### **OUTPUT SPECIFICATION:**

Item	Specification	Min	Typ	Max
Normal DC Output Voltage		-	12VDC	-
DC Output Voltage Range	Typical Output Voltage	11.4V	-	12.6V
Load Current Range		0.1A	-	2.0A
Peak Load Current	Time < 60ns	-	-	2.3A
Ripple	Typical Input Voltage, Typical Load Current, +25°C	-	-	12.mV
Hold-Up Time	At Typical Input Voltage and Full Load	10mS	-	-
Turn-On Delay	Typical Input Voltage and Typ Load Current	-	-	3S
Overcurrent Protection	Auto Recovery	-	-	-
Short-Circuit Protection	The Adapter Shall Not be Damaged by Shorting the DC Output to GND	-	-	-
Overvoltage Protection		-	13.8V	16V
No Load Power Dissipation		-	-	0.3W

Rev. 8-20



**MECHANICAL:**

Item	Specification OR Test Condition	Acceptance Criteria
Bending Test	Normal Temperature The Cord Shall Withstand Weight of 200g, Swinging From Left to Right at an Angle of 60° 1000 Cycle Times Min. S/R Shall Withstand Weight of 1N, Swinging from Left to Right at an Angle of 60° 1000 Cycle Times Min. Bending Speed 40 Cycle/Minute	No Short Circuit No Breakage of the Cord
Vibration	Frequency Range: 10 to 55Hz Amplitude: 1.5mm Acceleration: 1G Sweep 1 Minute fo X, Y, Z Axis Each	There Shall Be No Abnormality on the Appearance Structure and Operating

**RELIABILITY:**

Item	Test Condition	Acceptance Criteria
Temperature Up with Typical Load	Test at Surface of the Case with Typical AC Input and Typical Load in Output 50/60Hz	Temperature Up Under 35°
Hi-Pot Test	Input to Output Gradually Raised from 0 to the 3000VAC and Held at that value for 3S, 5mA	No Damage
Insulation Resistance	Input to Output, DC 500V	> 50MΩ
MTBF	Typical Input & Full Load, +25°C	50000 Hours
Life	Typical Input & Full Load, +40°C Typical Input & Full Load, +25°C	1 Years Above 2 Years Above
Burn-In	At +30°C (±10°C), Normal Input Voltage	2 – 4 Hours

**ENVIRONMENT:**

Item	Specification or Test Conditions	Min	Typ	Max
Operating Temperature		0°C		+40°C
Storage Temperature		-20°C		+85°C
Operating Humidity	Non-Condensing	5% RH		90% RH
Storage Humidity	Non-Condensing	5% RH		90% RH

