



# 69-D48 12VDC, 48W Switching Desk Top Power Supply 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.



#### **INPUT REQUIREMENT:**

ltem	Specification	Min	Тур	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	_	-	1200mA
AC Inrush Current	Typical Inputs Voltage & Output at Full Load, +25°C	-	-	30A
Average Efficiency	Typical Input Voltage & Output at (Full Load)	_	_	_

#### **OUTPUT SPECIFICATION:**

ltem	Specification	Min	Тур	Max
Normal DC Output Voltage		_	12VDC	_
DC Output Voltage Range	Typical Output Voltage	11.4V	-	12.6V
Load Current Range		-	4.0A	-
Peak Load Current	Time < 60ns	-	_	_
Ripple	Typical Input Voltage, Typical Load Current, +25°C	-	_	200mV
Hold-Up Time	At Typical Input Voltage and Full Load	10mS	-	_
Turn-On Delay	Typical Input Voltage and Typ Load Current	-	_	1S
Overcurrent Protection	Auto Recovery	-	_	_
Short-Circuit Protection	The Adapter Shall Not be Damaged by Shorting the DC Output to GND	_	-	-
Overvoltage Protection		_	-	_

## **MECHANICAL:**

ltem	Specification OR Test Condition	Acceptance Criteria	
Bending Test	Normal Temperature	No Short Circuit	
	The Cord Shall Withstand Weight of 200g, Swinging From Left to Right at an Angle of 60° 1000 Cycle Times Min.	No Breakage of the Cord	
	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		
Vibration	Frequency Range: 10 to 55Hz	There Shall Be No Abnor-	
	Amplitude: 1.5mm	mality on the Appearance Structure and Operating	
	Acceleration: 1G	To a decide of the same of the	
	Sweep 1 Minute for X, Y, Z Axis Each		

## **RELIABILITY:**

ltem	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	No Damage
	Gradually Raised from 0 to the 3000VAC and Held at that value for 3S, 5mA	
Insulation Resistance	Input to Output, DC 500V	> 10MΩ
MTBF	Typical Input & Full Load, +25°C	50000 Hours
Burn-In	At +30°C (±10°C), Normal Input Voltage	2 – 4 Hours

### **ENVIRONMENT:**

ltem	Specification or Test Conditions	Min	Тур	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

