

AC-DC Power Supply



Features

- Energy Efficiency Level VI
- European CoC Tier 2
- International ITE Approvals
- Universal Input
- Interchangeable Mains Connectors
- UK and EU Mains Connectors Included
- Class II Construction
- 3 year Warranty

Specifications

Output Power : 12.75W
Output Voltage : 5.1V
Output Current : 2500mA
Total Regulation : 5%
Efficiency : 81%

Input

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Input Voltage	90	-	264	V AC	-
Input Frequency	47	-	63	Hz	-
Input Current	-	-	0.5	A	-
Inrush Current	-	-	50	A	240V AC, cold start at 25°C
Power Factor	-	-	-	-	EN61000-3-2, class A
No Load Input Power	-	-	75	mW	-
Input Protection	Internal fuse in line				

Output

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Output Voltage	-	5.1	-	V	-
Minimum Load	0	-	-	A	No minimum load required
Start Up Delay	-	-	4	s	-
Start Up Rise Time	-	30	-	ms	-
Hold Up Time	-	10	-	ms	Full load and 115V AC
Total Regulation	-	-	5	%	Includes initial set accuracy, line and load regulation
Transient Response	-	-	10	% deviation	Recovery within <1% within 500µs for a 25% step load change at 0.1 A/µs

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Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Ripple & Noise	-	-	100	mV pk-pk	Measured with 20MHz bandwidth and 10µF electrolytic in parallel with 0.1µF ceramic capacitor
Short Circuit Protection	-	-	-	-	Continuous, trip and restart (hiccup mode) with auto recovery
Temperature Coefficient	-	-	0.05	%/ °C	-

General

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Efficiency	-	81	-	%	Typical average of efficiencies measured at 25%, 50%, 75% and 100% load and 230V AC input
Energy Efficiency	-	-	-	-	Level VI and CoC tier 2
Isolation	3000	-	-	V AC	-
Leakage Current	-	-	250	µA	At 264V AC, 60Hz, from output to ground
Switching Frequency	-	85/65	-	kHz	115V AC full load / 230V AC full load
Mean Time Between Failure	200	-	-	kHrs	MIL-HDBK-217F at 25°C GB
Weight		0.22 (100)	-	lb (g)	Body only

Environmental

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Operating Temperature	-20	-	+40	°C	-
Storage Temperature	-20	-	+85	°C	-
Operating Humidity	5	-	93	%	RH, non-condensing
Operating Altitude	-	-	5000	m	-
Cooling	-	-	-	-	Natural convection
Shock	MIL-STD-810F 516.5 (Table 516.5-I)				
Vibration	MIL-STD-810F 514.5 (Table 514.5C-VIII figure 514.5C-6)				

EMC: Emissions

Phenomenon	Standard	Test Level	Notes & Conditions
Conducted	EN55032	Level B	-
Radiated	EN55032	Level B	-
Harmonic Current	EN61000-3-2	Class A	-
Voltage Flicker	EN61000-3-3	-	-

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EMC: Immunity

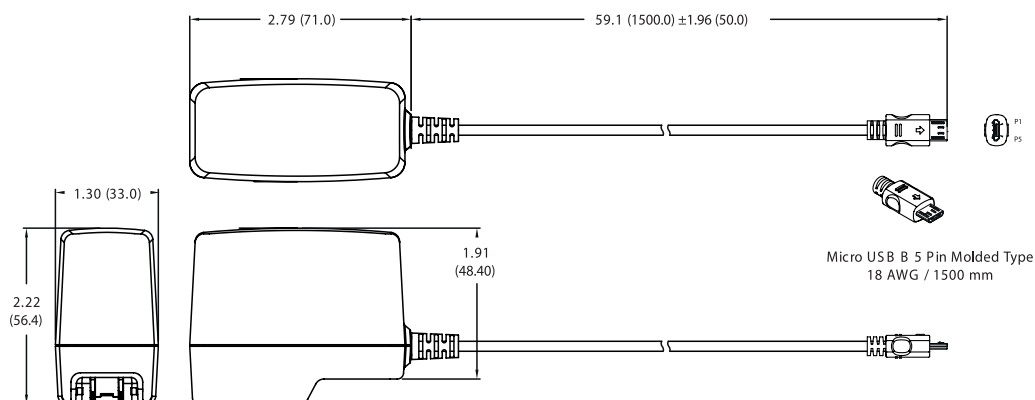
Phenomenon	Standard	Test Level	Criteria	Notes & Conditions
Low Voltage PSU EMC	EN61204-3	High severity level	as below	
ESD Immunity	EN61000-4-2	±4 kV contact, ±8 kV air	A	
Radiated Immunity	EN61000-4-3	10 V/m	A	
EFT/Burst	EN61000-4-4	Level 3	A	
Surge	EN61000-4-5	Level 3	A	
Conducted Immunity	EN61000-4-6	10 V	A	
Magnetic Fields	EN61000-4-8	3 A/m	A	
Dips and Interruptions	EN61000-4-11	Dip: 100% 10 ms	A	
		Dip: 70% 500 ms	B	
		Int: 100% 5000 ms	B	

Safety Approvals

Safety Agency	Safety Standard	Notes & Conditions
UL	UL60950-1	Information Technology
TUV	EN60950-1	
CB	IEC60950-1	
CE	LVD	

Diagram

Body



Output Connector	
Pin 1	+Vout
Pin 2	No Connection
Pin 3	
Pin 4	
Pin 5	-Vout

Dimensions : Inches (Millimetres)

Tolerance : ±0.02" (0.5mm)

www.element14.com
www.farnell.com
www.newark.com

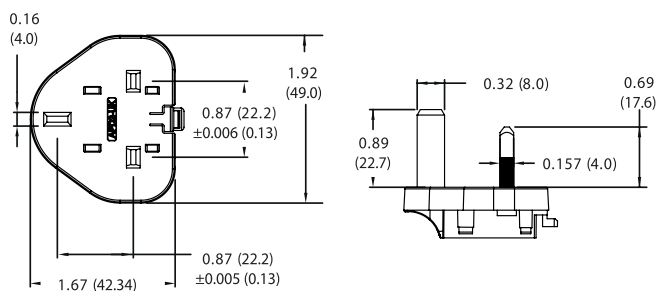


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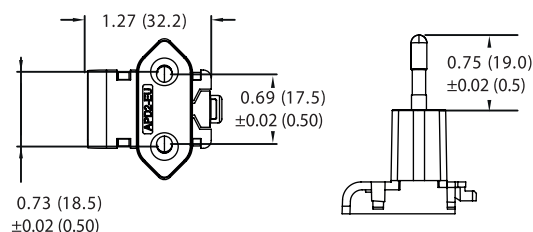


AC Input Plugs

UK Plug



EU Plug



Dimensions : Inches (Millimetres)

Tolerance : ±0.02" (0.5mm)

Part Number Table

Description	Part Number
Plug Top PSU, 5.1V, 2500mA	MC002546

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