

SWITCH MODE POWER SUPPLY

With Mounting Taps, LED, 2 Wire Input Connector, 15 V, 0.5 A



Features and Benefits

- Wide range input: 40 to 90 Vrms
- Level VI high efficiency rated
- Low power dissipation and low heating
- MTBF of over 100,000 hours typical

Ordering Information

SMPS515RH2W Power Supply, Switch Mode, w Mounting Taps, LED, 2 Wire Input Connector, 15 V, 0.5 A

Specifications

Parameters		Unit	SMPS515RH2W	
Electrical				
Input				
Voltage	Min.	Vrms	40	
	Typ.		60	
	Max.		90	
Frequency	Min.	Hz	57	
	Typ.		60	
	Max.		63	
Current	Max.	mA	500	
Inrush Current	Max.	A @ VAC	25 @ 90	
Output				
Voltage	Min.	VDC	14.4	
	Typ.		15.0	
	Max.		15.6	
Load	Min.	A	0	
	Max.		0.5	
Ripple & Noise	Measured @ 20 MHz band width with 10 uF / 50 V capacitance and 104 / 50 V ceramic capacitor		mV	180
Overshoot	@ 0.5 A, 100 to 240 VAC (Max)		%	10
Turn On Delay	@ 115 VAC (Max)		seconds	2
Hold Up Time	@ 115 VAC 60 Hz / 230 VAC 50 Hz (Min)		ms	16.67
Typical Efficiency	@ 1 min after power on (Min)		%	80.25
Transient Response	@ loading current change from 20 to 80 % of Max. current and 0.5 A/us rise up / drop down test (Min)		ms	10
General				
Environmental Conditions - Operating				
Temperature		°C (°F)	-40 to +60 (-40 to +140)	
Relative Humidity		%	5 to 95	
Altitude		m	Sea level to 2,000	
Vibration		mm	1.0, 10 to 55 Hz, 15 minutes per cycle for each axis (X, Y, Z)	
Cooling		--	Natural convection cooling	
Reliability & Safety				
MTBF	When the power supply is operating within the limits of this specification		--	At least 100,000 hours @ 60 °C
Surge Protection		--	Withstand B3 surge 6kV, 3kA at AC input Conforms to ANSI/SCTE 81 2008	
EMI Standards		--	FCC Part 15B	
Energy Efficiency				
International Efficiency Level		--	CEC VI	

