

SWITCH MODE POWER SUPPLY

With Mounting Taps, LED, F Port 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

SMPS515RHF Power Supply, Switch Mode, w Mounting Taps, LED, F Port Input Connector, 15 V, 0.5 A

Specifications

Parameters		Unit	SMPS515RHF
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 2012
EMI Standards		--	FCC Part 15B
Energy Efficiency			
International Efficiency Level		--	CEC VI

