

DATA SHEET

Multiple Output 12W AC to DC SMPS

- High efficiency, high reliability & Low cost
- Maximum Output power of 12W
- Multiple outputs
- Universal AC input 85V ~ 300VAC
- Built-in EMI filter. Low Ripple & Noise
- Soft start Circuit to limit the AC surge current
- Optional input & output connectors
- Compact, light weight and low profile design
- Short circuit, Over load protection
- 100% Full load burn-in test



SPECIFICATIONS

PARAMETER	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
• INPUT CHARACTERISTICS					
Input Voltage		85		300	VAC
Input Frequency		47		63	Hz
Input Current					A (rms)
Safety ground leakage current	@230VAC, 50Hz			0.75	mA
• OUTPUT CHARACTERISTICS					
Output Voltage	Refer to rating chart	3.3		12	VDC
Output Current	Refer to rating chart				ADC
Output Power	Refer to rating chart			12	Watts
Ripple & Noise		1% Peak to Peak Maximum			
Over Current Protection	Output protected for short circuit conditions				
Temperature Coefficient	±0.04% / °C maximum				
MTBF	50,000 hours, optional				
• ENVIRONMENTAL CHARACTERISTICS					
Operating temperature		0		+40	°C
Storage temperature		-20		+85	°C
Relative humidity	Non-condensing	5		95	%
De-rating	From 100% @ +40°C de-rating linear to 50% @ +70°C				
• GENERAL SPECIFICATIONS					
Efficiency		70			%
Hold-up time				8	Sec
Line regulation			±1		%
Load regulation			±5		%
Dimension	L x W x H	144 x 65 x 28			mm
Construction	Open Frame				
Insulation resistance	50M ohm minimum from output to ground				

EMI requirement	Meets conduction limits of FCC part 15 class B & CISPR 22 class B
Inrush current	80A maximum at 25°C ambient temperature
Isolation between I/P & O/P	3KVAC

RATING CHART						
		OUTPUT 1		OUTPUT 2		
MODEL NO.	AC INPUT VOLTAGE	O/P VOLTAGE in VDC	O/P CURRENT in AMPS	O/P VOLTAGE in VDC	O/P CURRENT in AMPS	TOTAL O/P POWER in WATTS
TYPE1	85V~300V	3.3	2	5	1	11.6
TYPE2	85V~300V	5	1	12	0.5	11
TYPE3	85V~300V	5	2	3.3	0.5	11.65
TYPE4	85V~300V	5	1	3.3	1	8.3

NOTES:

1. All parameters are specified at 230VAC input, rated load at 25°C ambient.
2. Tolerance includes set up tolerance, line regulation and load regulation.
3. All Outputs require Minimum Load of 10% to meet the Specifications.
4. Ripple & noise are measured at 20MHz bandwidth using a 12" twisted pair terminated with 0.1uf & 47uf parallel capacitor.
5. Outputs provide up to maximum current, but limited to maximum output power.
6. Mounting holes should be grounded for EMI purposes.
- 7.** All dimensions & measurements for reference only.