

DATA SHEET

PFC BASED 250W, MULTIPLE OUTPUT, AC to DC SMPS

- High efficiency, high reliability & Low cost
- Output power up to 250W
- Multiple outputs
- PFC based Universal AC input 85V ~ 300VAC
- 0.99% PFC Guaranteed.
- Built-in EMI filter. Low Ripple & Noise
- Soft start Circuit to limit the AC surge current
- Optional input & output connectors
- Short circuit, Over load protection
- 100% Full load burn-in test



SPECIFICATIONS

PARAMETER	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
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• **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	5		48	VDC
OUTPUT CURRENT	refer to rating chart			30	ADC
OUTPUT POWER	refer to rating chart			250	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	350 x 155 x 120			mm
Construction	Aluminum Casing (as per Custom requirement)				
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		OUTPUT 3		
MODEL NO.	O/P VOLTAGE in VDC	O/P CURRENT in AMPS	O/P VOLTAGE in VDC	O/P CURRENT in AMPS	O/P VOLTAGE in VDC	O/P CURRENT in AMPS	O/P POWER in WATTS
TYPE1	5	30	12	5	-12	1	222
TYPE2	12	10	5	20	-12	1	232
TYPE3	12	20					240
TYPE4	24	10					240
TYPE5	48	5					240

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. Ripple & noise are measured at 20MHz band width using a 12" twisted pair terminated with 0.1uf & 47uf parallel capacitor.
4. Outputs provide up to maximum current, but limited to maximum output power.
5. All dimensions & measurements for reference only.