



**Features :**

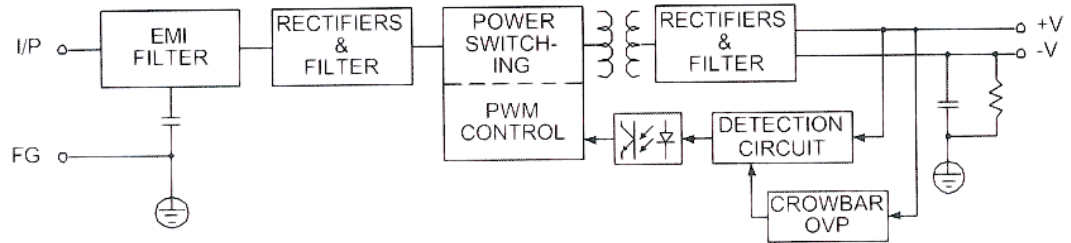
- . Medical safety approved
- . Fix switching frequency at 100 KHz
- . International AC input range / full range
- . Short circuit, over-load, over-voltage protected
- . Approvals : UL / CUL / TUV / CB / CE
- . 100% full load burn-in test
- . Built-in EMI filter, low ripple noise
- . Low leakage current  $\leq 0.3A$
- . High efficiency, Low working temperature
- . Compact size, Low profile
- . Low cost, High reliability



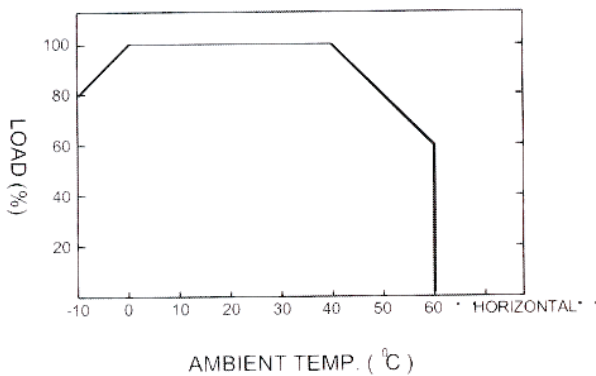
. 3 years warranty

Specifications	Model	MPS30-5	MPS30-12	MPS30-15	MPS30-24	MPS30-27	MPS30-48
DC output voltage		5V	12V	15V	24V	27V	48V
Output voltage tolerance		$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 3\%$	$\pm 2\%$
Output rated current		5A	2.5A	2A	1.2A	1.1A	0.6A
Output current range		0~5A	0~2.5A	0~2A	0~1.2A	0~1.1A	0~0.6A
Ripple & noise		80mV	120mV	150mV	240mV	240mV	240mV
Line regulation		$\pm 1\%$	$\pm 1\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$
Load regulation		$\pm 2\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$
Rated output power		25W	30W	30W	28.8W	29.7W	28.8W
Efficiency		72%	75%	76%	77%	78%	78%
Input voltage range		88~264VAC auto switch 47~63Hz ; 120~370VDC					
AC current		0.8A/115V ; 0.5A/230V					
Inrush current		Cold start 35A/230VAC					
Leakage current		$< 0.3mA/264VAC$					
Over-load protection		Above 105% Type : hiccup shutdown Reset : auto-recovery					
Over-voltage protection		110%~135%					
Over-temperature protection		U1 Tj 135°C typically power shutdown					
Temperature coefficient		$\pm 0.0\%/^{\circ}C (0^{\circ}\sim 50^{\circ}C)$					
Set-up, Rise, Hold-up time		500ms, 30ms, 10ms,/115VAC 500ms, 30ms, 50ms/230VAC					
Vibration		10~500Hz, 2G 10min./1cycle, period for 60min. Each axes					
Withstand voltage		I/P-O/P: 4KVAC I/P-FG: 1.5KVAC O/P-FG: short					
Isolation resistance		I/P-O/P, I/P-FG, O/P-FG: 500VDC / 100M $\Omega$					
Working temp. & humidity		-10°C~+50°C (refer to output derating curve), 20%~90% R.H.					
Storage temp. & humidity		-20°C~+85°C, 10%~95% R.H. ( non-condensing )					
Dimensions		101.6 x 65.8 x 25 mm ( Length x Width x Height ) PCB only					
Weight		150 gr					
Safety standards		UL2601-1, EN6060-1, IEC601-1 approved					
EMC standards		CISPR11 (EN55011), IEC61000-4-2,3,4,5,6,8,11					
Notes:							
-All parameters are specified at 230VAC input, rated load, 25°C & 70% R.H. ambient.							
- Ripple & Noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1yF & 47uF capacitor.							
- Line regulation is measured from low line to high line at rated load.							

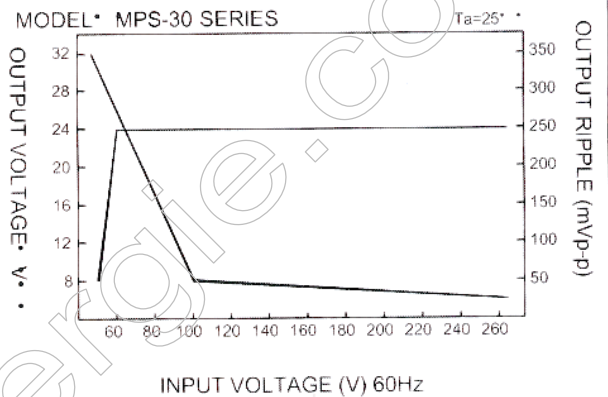
**BLOCK DIAGRAM**



**OUTPUT DERATING**



**STATIC CHARACTERISTICS**



**DIMENSION (mm)**

☒ CONNECTOR PIN NO. ASSIGNMENT

- ☒ CN1 : MOLEX 41791-5
- PIN 1 : FG
- PIN 3 : AC NEUTRAL
- PIN 5 : AC LINE

- ☒ CN2 : MOLEX 41791-4
- PIN 1,2 : DC OUTPUT COM
- PIN 3,4 : DC OUTPUT V+

☒ MATING CONNECTORS

- ☒ CN1,2 MATING CONNECTOR TYPE MOLEX 2139 AND 3069 SERIES OR EQUIVALENT WITH MOLEX 2478 AND 2578 OR EQUIVALENT CRIMP TERMINALS

