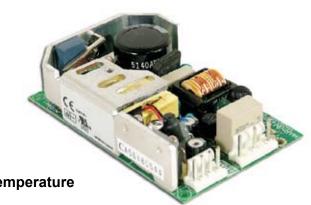
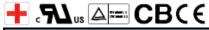


FEATURES

- Low Cost
- High Reliability
- 3 Year Warranty
- Low Leakage Current 0.3mA
- Universal AC Input / Full Range
- Fixed Switching Frequency at 100KHz
- Protections: Short Circuit /Overload /Over Voltage /Over Temperature





SPECIFICATIONS: PSMPS30 Series	
	sed on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.
	serve the right to change specifications based on technological advances.
INPUT SPECIFICATIONS	00 000000 1 311 (407 070)(00)
Input Voltage	88 – 264VAC auto switch (127 – 370VDC)
Input Frequency	47 to 63Hz
AC Current (typical)	0.8A @ 115VAC / 0.5A @ 230VAC
Inrush Current	30A @ 230VAC cold start
Leakage Current	Less than 0.3mA @ 264VAC
OUTPUT SPECIFICATIONS	
Output Voltage	See Table
Output Voltage Tolerance	±3% for all models except PSMPS-30-48 (±2%)
Output Power	See Table
Line Regulation	±1% max.
Load Regulation	±1% for all models except PSMPS-30-5 (±2%)
Output Current	See Table
Ripple & Noise (20MHz BW)	See Table
Setup, Rise Time	500ms and 30ms @ 230VAC and full load / 500ms and 30ms @ 115VAC and full load
Hold-Up Time	70ms @ 230VAC and full load / 12 ms @ 115VAC and full load.
Temperature Coefficient	±0.03%/°C (0~50°C)
PROTECTION	
Over Voltage Protection	Protection Type: Shutdown output voltage, re-power on to recover
•	Above 105% rated output power.
Overload Protection	Protection Type: Hiccup mode, recovers automatically after fault condition is removed.
Over Temperature Protection	Protection Type: Shutdown output voltage, recovers automatically after temperature goes down.
·	Tj 135°C typically (U1) Detect on main control IC.
GENERAL SPECIFICATIONS	
Switching Frequency (fixed)	100KHz
Efficiency	See Table
Isolation Voltage	4000VAC (Input to Output), 1500VAC (Input to FG), SHORT (Output to FG)
Isolation Resistance	100MΩ / 500VDC (Input to Output), 100MΩ / 500VDC (Input to FG)
ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature	-10°C to +60°C (refer to derating curve)
Storage Temperature	-20°C to +85°C
Operating Humidity (non-condensing)	20% to 90% RH
Storage Humidity (non-condensing)	10% to 95% RH
Vibration	10~500Hz, 2G 10min./1cycle, Period for 60 minutes each along X, Y, and Z axes.
MTBF	547,000 hours min. (According to MIL-HDBK-217) at 25°C
PHYSICAL SPECIFICATIONS	
Weight	150g
Dimensions	101.6(L) x 65.8(W) x 23.5(H) mm
SAFETY & EMC	1
Safety Standards	UL2601-1, TUV EN60601-1, IEC601-1 Approved
EMI Conduction & Radiation	Compliance to EN55011 (CISPR11) Class B
Harmonic Current	Compliance to EN61000-3-2,-3
EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN60601-1-2, Medical level, criteria
EIVIO IIIIIIUIIILY	Compilance to End 1000-4-2,3,4,3,0,0,11, Env30/204, Env30/24, Env30/0011-1-2, Medical level, Criteria



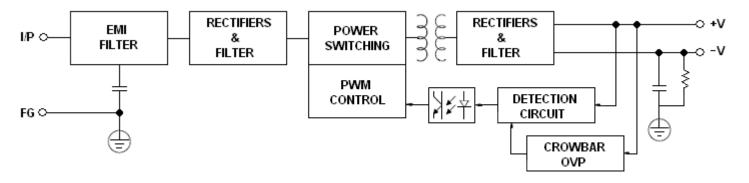
OUTPUT VOLTAGE / CURRENT RATING CHART

Model	Input Voltage	Output Voltage	Output Current	Ripple & Noise	Output Power	Efficiency
PSMPS-30-5		5 VDC	5A	80mV	25W	72%
PSMPS-30-12		12 VDC	2.5A	120mV	30W	75%
PSMPS-30-15	88~264VAC 120~370VDC	15 VDC	2A	150mV	30W	76%
PSMPS-30-24		24 VDC	1.2A	240mV	28.8W	77%
PSMPS-30-27		27 VDC	1.1A	240mV	29.7W	78%
PSMPS-30-48		48 VDC	0.6A	240mV	28.8W	78%

NOTES

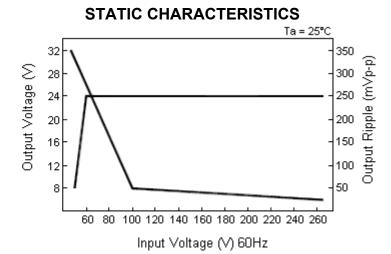
- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load, and 25°C ambient temperature.
- 2. Ripple & noise is measured at 20MHz bandwidth by using a 12" twisted pair-wire terminated with a 0.1μf and 47μF parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. The power supply is considered a component, which will be installed into final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

BLOCK DIAGRAM



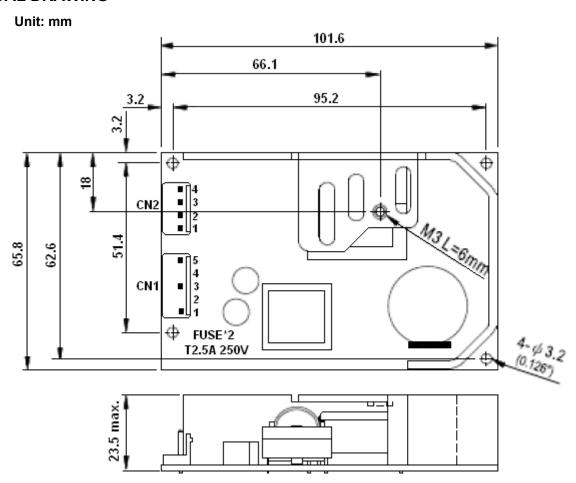
DERATING CURVE 100 80 90 40 -10 0 10 20 30 40 50 60 (HORIZONTAL)

Ambient Temperature (°C)





MECHANICAL DRAWING



AC Input Connector (CN1): Molex 5277-02 or equivalent

Pin. No	Assignment	Mating Housing	Terminal
1,2	-V	Molex 2139	Molex 2478
3,4	+V	or equivalent	or equivalent

DC Output Connector (CN2): Molex 41791-5 or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	FG		Molex 2478 or equivalent
2,4	No Pin	Molex 2139	
3	AC/N	or equivalent	
5	AC/L		