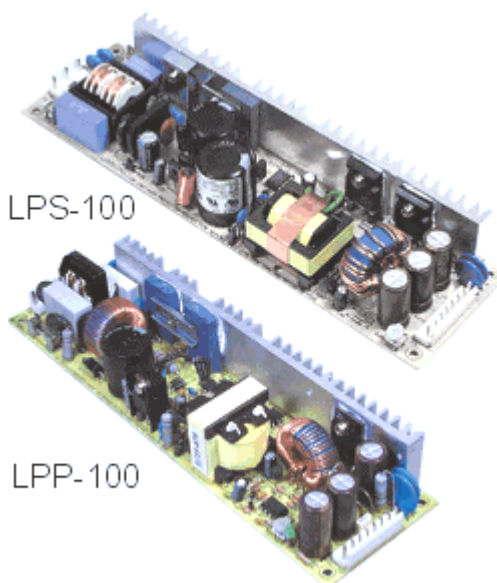




100W

100W Single Output Switching Power Supply

MW LPS-100 series



Features :

- . Low cost, High reliability
- . 105°C output capacitor
- . International AC input range
- . High efficiency, Low working temperature
- . Soft-start circuit, Limiting AC surge current
- . Short circuit, Overload protected
- . Compact size, Light weight
- . 100% full load burn-in test
- . Built-in EMI filter, low ripple noise

. 3 years warranty



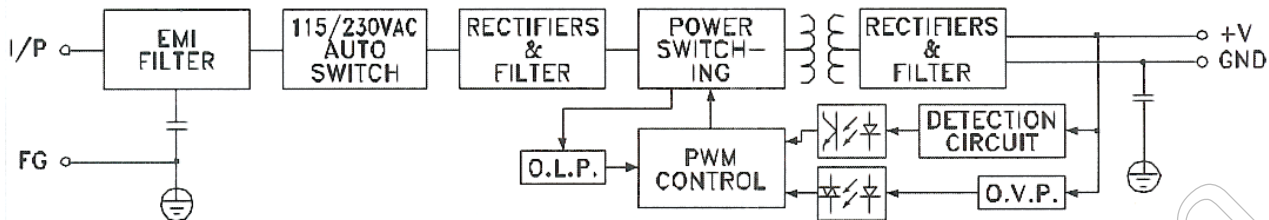
Specification	Model	LPS100 3.3	LPS100 5	LPS100 7.5	LPS100 12	LPS100 13.5	LPS100 15	LPS100 24	LPS100 27	LPS100 48	
DC output voltage		3.3V	5V	7.5V	12V	13.5V	15V	24V	27V	48V	
Output voltage tolerance		±3%	±3%	±2%	±2%	±2%	±2%	±1%	±1%	±1%	
Output rated current		20A	20A	13.3A	8.4A	7.5A	6.7A	4.2A	3.8A	2.1A	
Output current range		0-20A	0-20A	0-13.3A	0-8.5A	0-7.5A	0-6.7A	0-4.2A	0-3.8A	0-2.1A	
Ripple & noise		150mV	100mV	100mV	100mV	100mV	100mV	150mV	150mV	200mV	
Line regulation		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
Load regulation		±2%	±2%	±1.5%	±1.5%	±1.5%	±1.5%	±0.5%	±0.5%	±0.5%	
Rated output power		66W	100W	99.75W	100.8W	101.25W	100.5W	100.8W	102.6W	100.8W	
Efficiency		69%	77%	77%	79%	79%	80%	80%	81%	81%	
DC voltage adjustment (Volt)		3~3.6	4.5~5.7	6~9	10~13.2	12~15	13.5~18	20~26.4	26~32	41~56	
Input voltage range		88~132VAC / 176~264VAC auto switch 47~63Hz ; 248~370VDC									
AC current		2.3A/115V ; 1.5A/230V									
Inrush current		Cold start 30A/115V ; 60A/230V									
Leakage current		<1mA/240VAC									
Over-load protection		105%~140% (+24V:above 6.5A)Type : hiccup shutdown Reset : auto-recovery									
Over-voltage protection		3.8-4.45	5.75-6.75	9.4~10.9	13.8~16.2	15.5~18.2	18~21	27.6~32.4	33.7~39.2	57.6~67.2	
Temperature coefficient		±0.05% /°C (0°~50°C)									
Set-up, Rise, Hold-up time		800ms, 50ms, 20ms,/230VAC ; 1.2s, 50ms, 20ms /115VAC									
Vibration		10~500Hz, 2G 10min./1cycle, period for 60min. Each axes									
Withstand voltage		I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC									
Isolation resistance		I/P-O/P, I/P-FG, O/P-FG: 500VDC / 100MΩ									
Working temp. & humidity		-10°C~60°C (refer to output derating curve), 20%~90% R.H.									
Storage temp. & humidity		-20°C~+85°C, 10%~95% R.H. (non-condensing)									
Dimensions		222 x 62 x 35 mm (Length x Width x Height) PCB only									
Weight		370 gr									
Safety standards		UL1950, TUV EN60950									
EMC standards		CISPR22 (EN55022) class B, IEC1000-2,3,4									

Notes:

- All parameters are specified at 230VAC input, rated load, 25°C & 70% R.H. ambient.
- Tolerance include set up tolerance, line regulation, load regulation
- 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.
- If short or overload condition continues more than 10 seconds, it will damage the components
- Mounting holes M1 & M2 should be grounded for EMI purposes

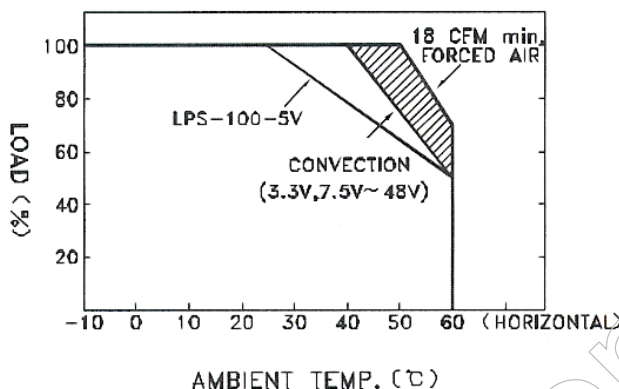


BLOCK DIAGRAM

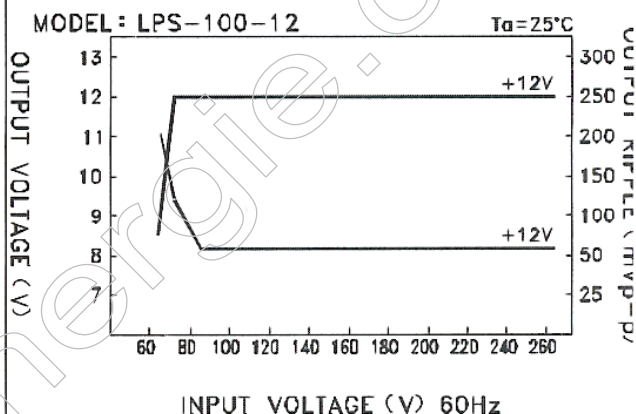


fosc : 135KHz

OUTPUT DERATING



STATIC CHARACTERISTICS



DIMENSION (mm)

- ☒ TERMINAL PIN NO. ASSIGNMENT
 - ☒ CN1 : JST B5P-VH
PIN 1,3,5 : AC INPUT
 - ☒ CN2 : JST B8P-VH
PIN 1,2,3,4 : DC OUTPUT +V
PIN 5,6,7,8 : DC OUTPUT -V

- ☒ MATING CONNECTORS
 - ☒ CN1,2 MATING CONNECTOR TYPE
JST VHR SERIES OR EQUIVALENT WITH
JST SVH-21T-P1.1 OR EQUIVALENT
CRIMP TERMINALS.

