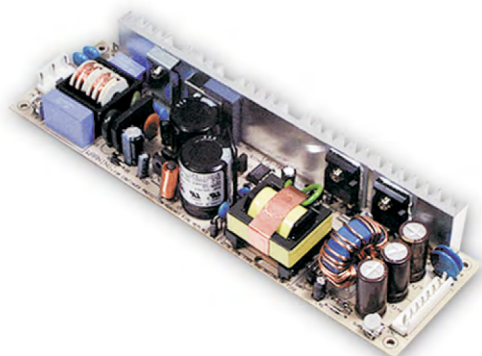


100W Single Output Switching Power Supply

LPS100 series



- 100% Full Load Burn-In Test
- Protections: Short circuit/Over load/Over voltage
- Cooling by free air convection
- Fix switching frequency at 134KHz



Model Number	Output Volts	Output Amps	Ripple & Noise	Min Load	DC Volt Adjust	Volt Tolerance
SINGLE OUTPUT						
LPS100-3.3	3.3 Volts(DC)	20 Amps	150mV pk-pk	0~20Amps	3~3.6Volt(DC)	±3.0%
LPS100-5	5 Volts(DC)	20 Amps	100mV pk-pk	0~20Amps	4.5~5.7Volt(DC)	±3.0%
LPS100-7.5	7.5 Volts(DC)	13.3 Amps	100mV pk-pk	0~13.3Amps	6~9.0Volt(DC)	±2.0%
LPS100-12	12 Volts(DC)	8.4 Amps	100mV pk-pk	0~8.4Amps	10~13.2Volt(DC)	±2.0%
LPS100-13.5	13.5 Volts(DC)	7.5Amps	100mV pk-pk	0~7.5Amps	12~15Volt(DC)	±2.0%
LPS100-15	15 Volts(DC)	6.7 Amps	100mV pk-pk	0~6.7Amps	13.5~18Volt(DC)	±2.0%
LPS100-24	24 Volts(DC)	4.2 Amps	150mV pk-pk	0~4.2Amps(6A 10S)	20~26.4Volt(DC)	±1.0%
LPS100-27	27 Volts(DC)	3.8 Amps	150mV pk-pk	0~3.8Amps	26~32Volt(DC)	±1.0%
LPS100-48	48 Volts(DC)	2.1 Amps	200mV pk-pk	0~3.2Amps	41~56Volt(DC)	±1.0%

100W Single Output Switching Power Supply

LPS100 series

INPUT SPECIFICATIONS

Input Voltage Range	88 ~ 132 VAC / 176~264 VAC auto switch 248~370 Volts(DC)
Frequency Range	47-63 Hz
Inrush Current, typ: (cold start)	30Amps@115VAC / 60Amps@230VAC
Input Current, typ.	2.3Amps@115VAC 1.5Amps@230VAC
Leakage current	< 1mAmps /240VAC
Min Load	See Selection Chart

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Line Regulation	±0.5%
Load Regulation	±2.0%: 3.3~5Volts(DC) ±1.5%: .5~15Volts(DC) ±0.5%: 24~48Volts(DC)
Voltage Tolerance (Note2)	See Selection Chart
Ripple/Noise (Note 1)	See Selection Chart
Hold Up Time,typ @ FL	20mS/230VAC 20mS/115VAC
Setup, Rise Time @ FL	800ms, 50m/230VAC 1200mS, 50mS/115VAC
Over Voltage Protection	3.8 ~ 4.45Volt(DC): 3.3Volts(DC) 5.75 ~ 6.75Volt(DC): 5Volts(DC) 9.4 ~ 10.9Volt(DC): 7.5Volts(DC) 13.8 ~ 16.2Volt(DC): 12Volts(DC) 15.5 ~ 18.2Volt(DC): 13.5Volts(DC) 18 ~ 21Volt(DC): 15Volts(DC) 27.6~ 32.4Volt(DC): 24Volts(DC) 33.7 ~ 39.2Volt(DC): 5Volts(DC) 57.6~ 67.2Volt(DC): 48Volts(DC) Hiccup mode, auto recover
Over Current Protection	105 ~ 140% (+24Volts: above 6.5Amps) rated output power Hiccup mode, auto recover
DC Volt Adjust	See Selection Chart

GENERAL SPECIFICATIONS

Safety	UL60950-1, TUV EN60950-1 Approved
--------	--------------------------------------

Insulation Resistance	≥ 100MΩ / 500Volts(DC)
EMI	Compliance to EN55022B (CISPR22B)
Harmonic Current	Compliance to EN61000-3-2,-3
Efficiency, typ.	69% (LPS-100-3.3) 77% (LPS-100-5/7.5) 79% (LPS-100-12/13.5) 80% (LPS-100-15/24) 81% (LPS-100-27/48)
Isolation	3000VAC Input - Output 1500VAC Input - Ground 500VAC Output - Ground
EMS	Compliance to EN61000-4-2,3,4,5,6,8,11 light Industry Level, Criteria A
Remote ON/OFF	RC+/RC-: 0~0.8Volts(DC)= power On 4~10Volts(DC)= power Off

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-10°C to +60°C (See Derate Curve)
Storage Temperature	-20°C to +85°C, 10~95% RH
Relative Humidity	20~90% RH non cond
Temperature Coefficient	±0.05% / °C (0-50°C)
MTBF	203.6KHrs min,MIL-HDBK-217F(25°C)
Vibration	10~500Hz, 2G10min./1cycle, period for 60min. each along X, Y, Z axes

PHYSICAL SPECIFICATIONS

Size	
Millimeters	222 x 62 x 32
Inches	8.74" x 2.44 " x 1.26 "
Weight	15.87 oz (450g)

NOTE

1. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
2. Tolerance : includes set up tolerance, line regulation and load regulation.
3. If the input range 85V-89V, the output load is changed from 0A-rated load, There will be reduced 20V for 1second (LPS-100-24).
4. Mounting holes M1 and M2 should be grounded for EMI purposes.

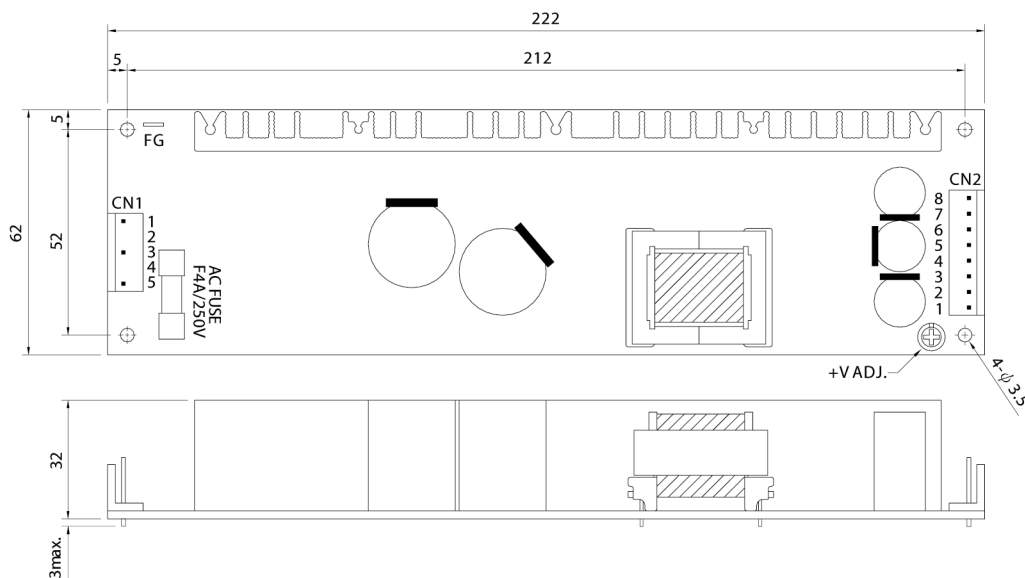
All specifications are typical at nominal input, full load, and 25°C unless otherwise noted

100W Single Output Switching Power Supply

LPS100 series

Mechanical Specification

Unit:mm



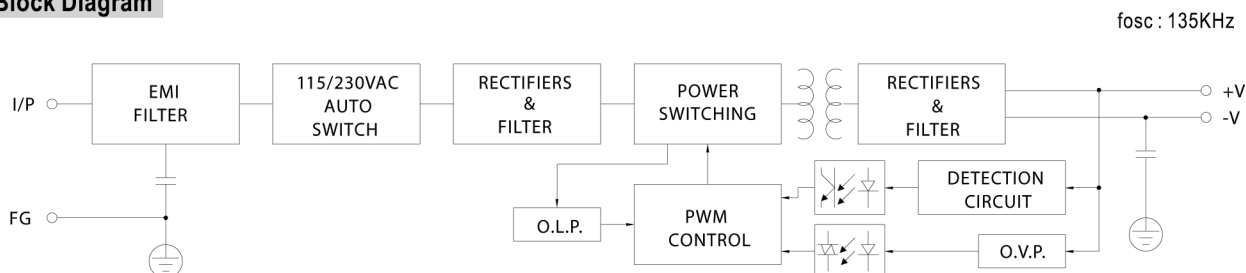
AC Input Connector (CN1) : JST B5P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	FG $\equiv$	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2,4	No pin		
3	AC/N		
5	AC/L		

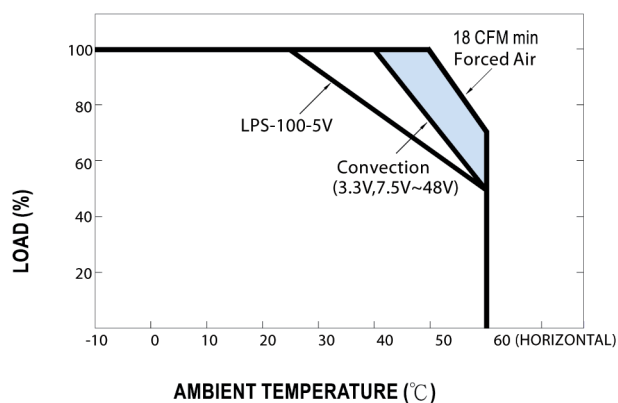
DC Output Connector (CN2) : JST B8P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,2,3,4	+V	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
5,6,7,8	-V		

Block Diagram



■ Derating Curve



■ Static Characteristics (12V)

