300W Single Output Supply

LRS-300E Series

■ Features:

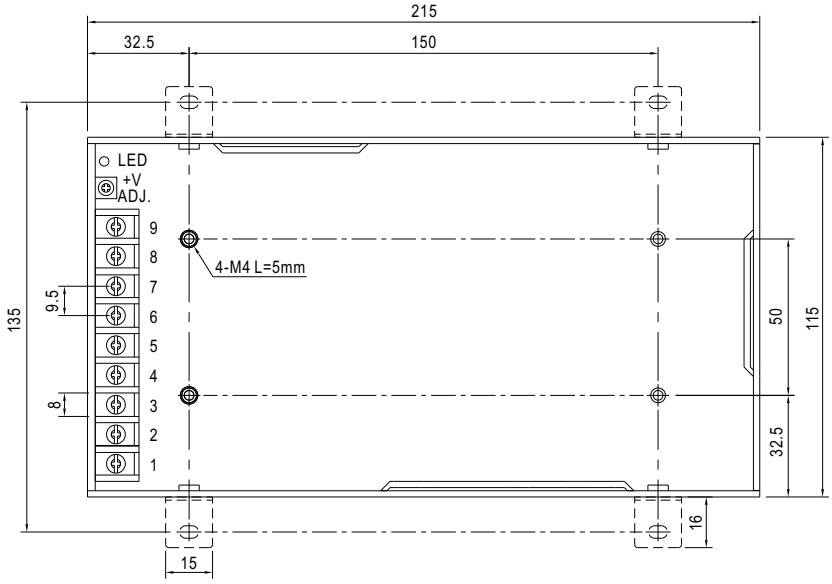
- AC input 180~264VAC
- Protections: Short circuit / Overload / Over voltage
- Natural air cooling
- Only 30mm high
- LED indicator for power on
- Low cost, high reliability
- 100% full load burn-in test
- 1 year warranty

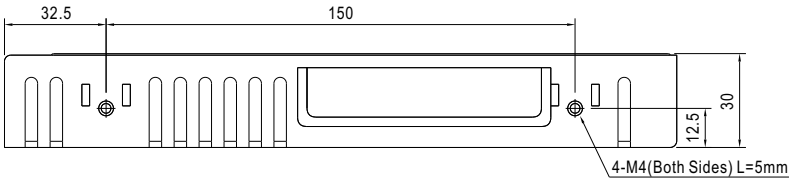
SPECIFICATION

MODEL		LRS-300E-5	LRS-300E-4.2
OUTPUT	DC VOLTAGE	5V	4.2V
	RATED CURRENT	60A	60A
	CURRENT RANGE	0 ~ 60A	0 ~ 60A
	RATED POWER	300W	252W
	MAX. PEAK POWER	300W	252W
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	4.5 ~ 5.5V	3.6 ~ 4.4V
	VOLTAGE TOLERANCE Note.3	±3.0%	±3.0%
	LINE REGULATION	±0.5%	±0.5%
	LOAD REGULATION	±2.0%	±2.0%
	SETUP, RISE TIME	1500ms,50ms/230VAC	
	HOLD UP TIME (Typ.)	16ms/230VAC	
INPUT	VOLTAGE RANGE	180 ~ 264VAC 254 ~ 370VDC	
	FREQUENCY RANGE	47 ~ 63Hz	
	EFFICIENCY (Typ.)	80%	
	AC CURRENT (Typ.)	3.5A/230VAC	
	INRUSH CURRENT (Typ.)	70A/230VAC	
PROTECTION	OVER LOAD	110% ~ 140% rated output power	
		Protection mode: Hiccup mode, recovers automatically after the load fault condition is removed	
	OVER VOLTAGE	5.6 ~ 7V	4.6 ~ 5.4V
		Protection mode: Hiccup mode, recovers automatically after fault condition is removed	
ENVIRON.	WORKING TEMP.	-20 ~ +60℃ (Refer to 'Derating Curve')	
	WORKING HUMIDITY	20 ~ 90% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃, 10 ~ 95% RH	
	TEMP. COEFFICIENT	±0.03%/℃ (0-50℃)	
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes	
SAFETY	SAFETY STANDARDS		
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC	
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃/ 70% RH	
OTHERS	MTBF	235K hrs. MIL-HDBK-217F (25℃)	
	DIMENSION	215*115*30mm (L*W*H)	
	PACKING	0.75Kg;15pcs/12.3Kg/0.78CUFT	
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance: includes set up tolerance, line regulation and load regulation.		

■ Mechanical Specification

Case No.207C Unit:mm



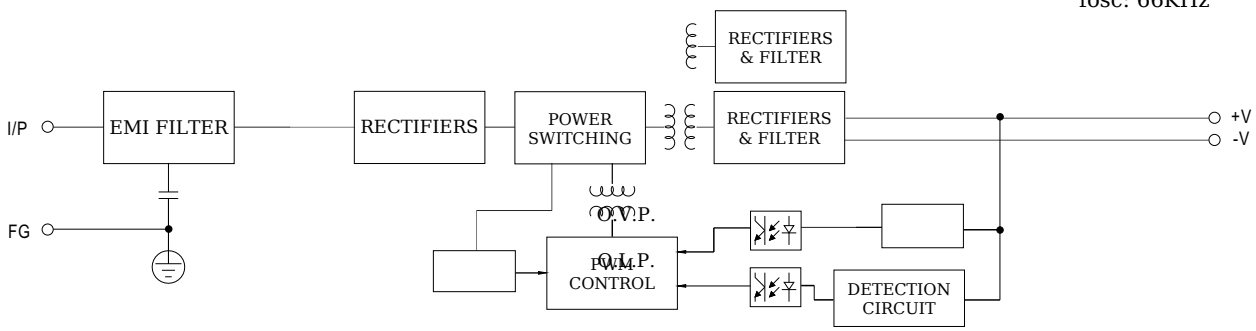


Terminal Pin No. Assignment:

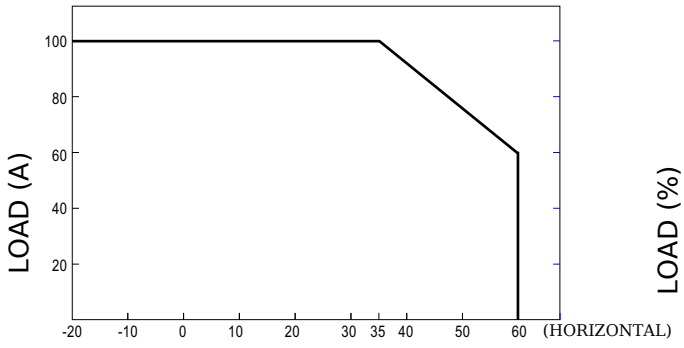
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4~6	DC OUTPUT -V
2	AC/N	7~9	DC OUTPUT +V
3	FG ⏚		

■ Block Diagram

fosc: 66KHz



■ Derating Curve



■ Static Characteristics

