

### Features

- AC input range selectable by switch
- · Withstand 300VAC surge input for 5 second
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · Cooling by free air convection
- 1U low profile
- Withstand 5G vibration test
- · LED indicator for power on
- No load power consumption<0.75W</li>
- 100% full load burn-in test
- High operating temperature up to 70°C
- Operating altitude up to 5000 meters (Note.8)
- · High efficiency, long life and high reliability
- 3 years warranty

# Applications

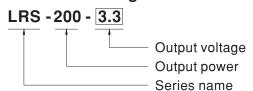
- Industrial automation machinery
- · Industrial control system
- Mechanical and electrical equipment
- · Electronic instruments, equipments or apparatus

# Description

LRS-200 series is a 200W single-output enclosed type power supply with 30mm of low profile design. Adopting the input of 115VAC or 230VAC (select by switch), the entire series provides an output voltage line of 3.3V, 4.2V, 5V, 12V, 15V, 24V, 36V and 48V.

In addition to the high efficiency up to 90%, the design of metallic mesh case enhances the heat dissipation of LRS-200 that the whole series operates from -25 $^{\circ}$ C through 70 $^{\circ}$ C under air convection without a fan. Delivering an extremely low no load power consumption (less than 0.75W), it allows the end system to easily meet the worldwide energy requirement. LRS-200 has the complete protection functions and 5G antivibration capability; it is complied with the international safety regulations such as UL 60950-1. LRS-200 series serves as a high price-to-performance power supply solution for various industrial applications.

### Model Encoding

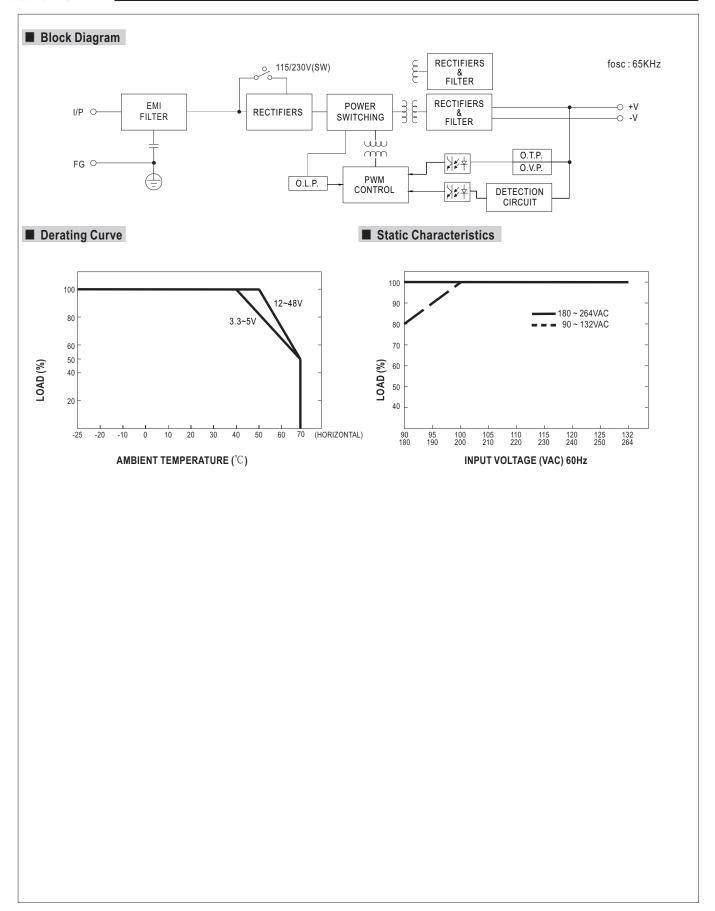




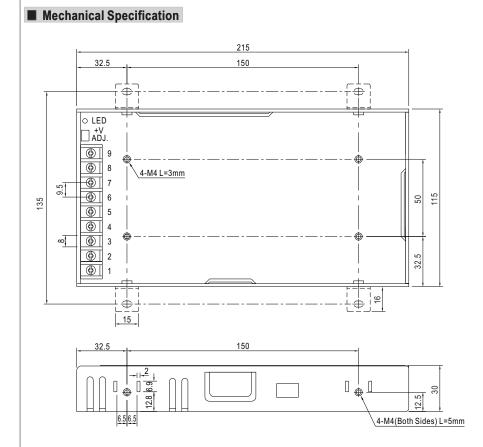
### SPECIFICATION

MODEL		LRS-200-3.3	LRS-200-4.2	LRS-200-5	LRS-200-12	LRS-200-15	LRS-200-24	LRS-200-36	LRS-200-48	
	DC VOLTAGE	3.3V	4.2V	5V	12V	15V	24V	36V	48V	
	RATED CURRENT	40A	40A	40A	17A	14A	8.8A	5.9A	4.4A	
	CURRENT RANGE	0 ~ 40A	0 ~ 40A	0 ~ 40A	0 ~ 17A	0 ~ 14A	0 ~ 8.8A	0 ~ 5.9A	0 ~ 4.4A	
	RATED POWER	132W	168W	200W	204W	210W	211.2W	212.4W	211.2W	
ОИТРИТ	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	
	VOLTAGE ADJ. RANGE	2.97 ~ 3.6V	3.6 ~ 4.4V	4.5 ~ 5.5V	10.2 ~ 13.8V	13.5 ~ 18V	21.6 ~ 28.8V	32.4 ~ 39.6V	43.2 ~ 52.8V	
	VOLTAGE TOLERANCE Note.3	±3.0%	±4.0%	±3.0%	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION Note.4	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION Note.5	±2.5%	±2.5%	±2.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME	1300ms, 50m		1300ms,50ms	s/115VAC at fu	III load				
	HOLD UP TIME (Typ.)	16ms/230VAC 12ms/115VAC at full load								
	VOLTAGE RANGE	90 ~ 132VAC / 180 ~ 264VAC by switch								
	FREQUENCY RANGE	47 ~ 63Hz								
	EFFICIENCY (Typ.)	83%	86%	87%	87.5%	88%	89.5%	89.5%	90%	
INPUT	AC CURRENT (Typ.)		1		01.570	0070	03.576	00.070	30 /0	
	INRUSH CURRENT (Typ.)	4A/115VAC 2.2A/230VAC								
	LEAKAGE CURRENT	COLD STAR 60A/115VAC 60A/230VAC								
	LEARAGE CURRENT	<2mA/240VAC								
	OVER LOAD	110 ~ 140% rated output power  Protection type: Hiccup mode, recovers automatically after fault condition is removed								
		•								
PROTECTION	OVER VOLTAGE	3.8 ~ 4.45V	1 1		13.8 ~ 16.2V		28.8 ~ 33.6V	41.4 ~ 46.8V	55.2 ~ 64.8V	
	OVED TEMPEDATURE	Protection type: Hiccup mode, recovers automatically after fault condition is removed								
	OVER TEMPERATURE	Hiccup mode, recovers automatically after fault condition is removed								
ENVIRONMENT	WORKING TEMP.	-25 ~ +70°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY									
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)								
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes								
SAFETY	SAFETY STANDARDS	UL60950-1, BSMI CNS14336-1, EAC TP TC 004 approved								
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC								
	ISOLATION RESISTANCE	c., , c., c, c c c c c c c c c c c c c.								
	EMC EMISSION	Compliance to BSMI CNS13438, EAC TP TC 020								
	EMC IMMUNITY	Compliance to EAC TP TC 020								
OTHERS	MTBF	347.5K hrs min. MIL-HDBK-217F ( $25^{\circ}$ C)								
	DIMENSION	215*115*30mm (L*W*H)								
	PACKING	0.66Kg; 15pc	s/10.9Kg/0.780	CUFT						
NOTE	Ripple & noise are mea     Tolerance : includes set     Line regulation is measu     Load regulation is measu     Length of set up time is time.  7.The 150% peak load cal for over 1 second and verified.	ecially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. asured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. It up tolerance, line regulation and load regulation. It up to 100% rated load. It is measured from 0% to 100% rated load. It is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up upability is built in for up to 1 second for 12~48V.LRS-200 will enter hiccup mode if the peak load is delivered will recover once it resumes to the rated current level(115VAC/230VAC).								









Unit:mm

Case No. 207

#### Terminal Pin No. Assignment:

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

## **■** Installation Manual

Please refer to : http://www.meanwell.com/manual.html