





























Features

- · Universal AC input / Full range
- Withstand 300VAC surge input for 5 second
- · Protections: Short circuit / Overload / Over voltage
- · Cooling by free air convection
- · Miniature size and 1U low profile
- Compliance to IEC/BS EN/EN 60335-1(PD3) and IEC/BS EN/EN61558-1, 2-16 for household appliances
- · Operating altitude up to 5000 meters (Note.7)
- · Withstand 5G vibration test
- LED indicator for power on
- No load power consumption<0.3W
- · Over voltage category III
- 100% full load burn-in test
- High operating temperature up to 70°C
- · 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
- Household appliances

■ GTIN CODE

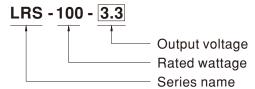
MW Search: https://www.meanwell.com/serviceGTIN.aspx

■ Description

LRS-100 series is a 100W single-output enclosed type power supply with 30mm of low profile design. Adopting the full range 85~264VAC input, the entire series provides an output voltage line of 3.3V, 5V, 12V, 15V, 24V, 36V and 48V.

In addition to the high efficiency up to 91%, the design of metallic mesh case enhances the heat dissipation of LRS-100 that the whole series operates from -30°C through 70°C under air convection without a fan. Delivering an extremely low no load power consumption (less than 0.3W), it allows the end system to easily meet the worldwide energy requirement. LRS-100 has the complete protection functions and 5G antivibration capability; it is complied with the international safety regulations such as TUV BS EN/EN2368-1, BS EN/EN60335-1,BS EN/EN61558-1/-2-16, UL62368-1 and GB4943. LRS-100 series serves as a high price-to-performance power supply solution for various industrial applications.

■ Model Encoding

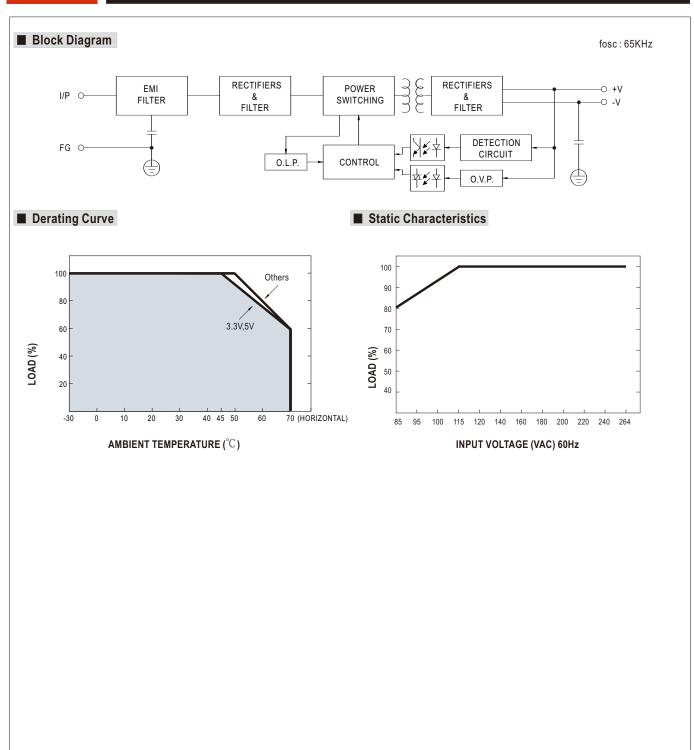




SPECIFICATION

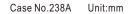
	LRS-100-3.3	LRS-100-5	LRS-100-12	LRS-100-15	LRS-100-24	LRS-100-36	LRS-100-48	
DC VOLTAGE	3.3V	5V	12V	15V	24V	36V	48V	
RATED CURRENT	20A	18A	8.5A	7A	4.5A	2.8A	2.3A	
CURRENT RANGE	0 ~ 20A	0 ~ 18A	0 ~ 8.5A	0 ~ 7A	0 ~ 4.5A	0 ~ 2.8A	0 ~ 2.3A	
RATED POWER	66W	90W	102W	105W	108W	100.8W	110.4W	
RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	120mVp-p	120mVp-p	150mVp-p	200mVp-p	200mVp-p	
, ,	2.97 ~ 3.6V	4.5 ~ 5.5V	10.2 ~ 13.8V	13.5 ~ 18V		32.4 ~ 39.6V	43.2 ~ 52.8V	
	±3.0%	±2.0%	±1.0%	±1.0%		±1.0%	±1.0%	
			±0.5%				±0.5%	
							±0.5%	
		,				1	_ = 0.070	
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		000/	000/	00.50/	000/	00 50/	040/	
()1 /		1		88.5%	90%	90.5%	91%	
	100.000							
LEAKAGE CURRENT	<0.75mA / 240VAC							
OVER LOAD PROTECTION OVER VOLTAGE	110 ~ 150% rated output power							
	Protection type	: Hiccup mode, r	ecovers automat	-	1	oved		
	3.8 ~ 4.45V	5.75 ~ 6.75V	13.8 ~ 16.2V	18.75 ~ 21.75\	28.8 ~ 33.6V	41.4 ~ 48.6V	55.2 ~ 64.8\	
OVERVOLIAGE	Protection type : Shut down o/p voltage, re-power on to recover							
WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")							
WORKING HUMIDITY	20 ~ 90% RH non-condensing							
STORAGE TEMP., HUMIDITY	$^{\prime}$ -40 ~ +85 $^{\circ}$ C , 10 ~ 95% RH non-condensing							
TEMP. COEFFICIENT	±0.03%/°C (0~50°C)							
VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes							
OVER VOLTAGE CATEGORY	III; Compliance to BS EN/EN61558, BS EN/EN50178, BS EN/EN60664-1, BS EN/EN62477-1; altitude up to 2000 meters							
SAFETY STANDARDS	UL 62368-1, TUV BS EN/EN62368-1, BS EN/EN60335-1, BS EN/EN61558-1/-2-16,CCC GB4943.1, BSMI CNS15598-1, EAC TP TC 004,S/NZS62368.1(by CB),KC K60950-1(for LRS-100-12/24 only), BIS IS13252(Part1): 2010/IEC 60950-1: 2005 approved							
WITHSTAND VOLTAGE	I/P-O/P:4KVAC	I/P-FG:2KVAC	O/P-FG:1.25	KVAC				
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH							
EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN55014, BS EN/EN61000-3-2,-3, GB/T 9254, BSMI CNS15936, EAC TP TC 020,KC KN32,KN35(for LRS-100-12/24 only) Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61000-6-2 (BS EN/EN50082-2),BS EN/EN55035, heavy industry level, EAC TP TC 020,KC KN32,KN35(for LRS-100-12/24 only)							
EMC IMMUNITY						EN55035,		
MTBF	3348.9K hrs min. Telcordia SR-332 (Bellcore); 677.4Khrs min. MIL-HDBK-217F (25°C)							
DIMENSION	129*97*30mm (L*W*H)							
PACKING	0.34Kg; 40pcs/14.6Kg/0.92CUFT							
Ripple & noise are measures. Tolerance: includes set up 4. Line regulation is measures. Load regulation is measures. Length of set up time is mitime. The ambient temperature is mounting the unit on a 36 mounting t	ured at 20MHz of p tolerance, line ed from low line ed from 0% to 1 neasured at cold derating of 5°C/idered a compor 10mm*360mm m	bandwidth by us regulation and lo to high line at rate 00% rated load. first start. Turning 1000m is needed lent which will be etal plate with 1m	sing a 12" twisted ad regulation. ed load. g ON/OFF the portion of the portion of thickness.	pair-wire termin wer supply very tude greater that nal equipment. A	quickly may lead a 2000m(6500ft). All the EMC tests ent must be re-cc	& 47uf parallel can be a to increase of the are been execute on firmed that it still	e set up ed by ill meets	
	RATED CURRENT CURRENT RANGE RATED POWER RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION Note.4 LOAD REGULATION Note.5 SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE FREQUENCY RANGE EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT OVER LOAD OVER VOLTAGE WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION OVER VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT spec 2. Ripple & noise are measur 5. Load regulation is measur 6. Length of set up time is m time. 7. The ambient temperature 8. The power supply is cons mounting the purit on an se EMC directives. For guida	RATED CURRENT 20A CURRENT RANGE 0 ~ 20A RATED POWER 66W RIPPLE & NOISE (max.) Note.2 100mVp-p VOLTAGE ADJ. RANGE 2.97 ~ 3.6V VOLTAGE TOLERANCE Note.3 ±3.0% LINE REGULATION Note.4 ±0.5% LOAD REGULATION Note.5 ±2.0% SETUP, RISE TIME 500ms, 30ms/2: HOLD UP TIME (Typ.) 55ms/230VAC VOLTAGE RANGE 85 ~ 264VAC FREQUENCY RANGE 47 ~ 63Hz EFFICIENCY (Typ.) 84.5% AC CURRENT (Typ.) 1.9A/115VAC INRUSH CURRENT (Typ.) COLD START 5 LEAKAGE CURRENT (Typ.) 10 ~ 150% rate Protection type WORKING TEMP30 ~ +70°C (Received on the color of the colo	RATED CURRENT 20A	RATED CURRENT 20A	RATED CURRENT 20A 18A 8.5A 7A	RATED CURRENT 20A	RATED CURRENT 20A	

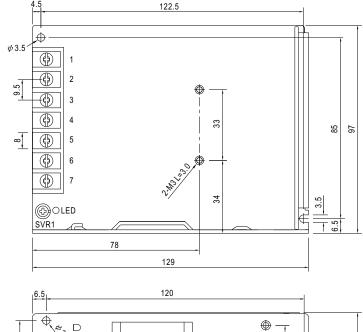


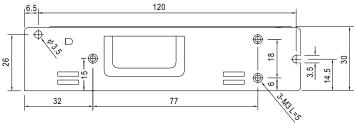




■ Mechanical Specification







Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4,5	DC OUTPUT -V
2	AC/N	6,7	DC OUTPUT +V
3	FG ≟		

■ Installation Manual

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