

























■ 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

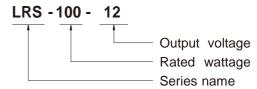
Description

LRS-100-12 series is a 100W single-output enclosed type power supply with 30mm of low profile design. Adopting the full range 85~264VAC input.

In addition to the high efficiency up to 91%, the design of metallic mesh case enhances the heat dissipation of LRS-100-12 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-100-12 has the complete protection functions and 5G anti- vibration 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 GB 4943. 1. LRS-100 series serves as

a high price-to-performance power supply solution for various industrial applications.

■ Model Encoding

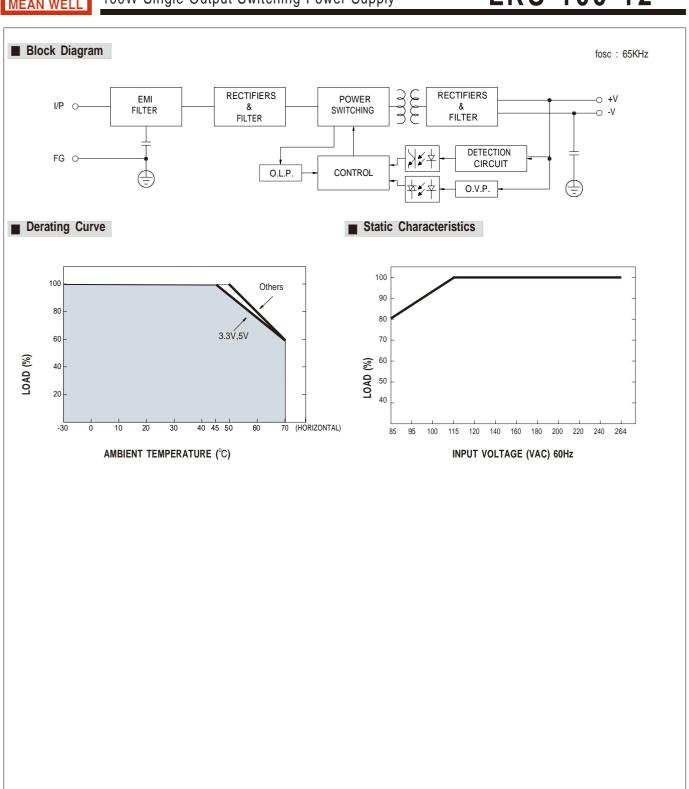




SPECIFICATION

DC VOLTAGE	LRS-100-12			
DC VOLTAGE	12V			
	12V			
RATED CURRENT	8.5A			
CURRENT RANGE	0 ~ 8.5A			
RATED POWER	102W			
RIPPLE & NOISE (max.) Note.2	.2 120mVp-p			
VOLTAGE ADJ. RANGE	10.2 ~ 13.8V			
VOLTAGE TOLERANCE Note.3	±1.0%			
LINE REGULATION Note.4	±0.5%			
LOAD REGULATION Note.5	±0.5%			
SETUP, RISE TIME	500ms, 30ms/230VAC 500ms,30ms/115VAC at full load			
HOLD UP TIME (Typ.)	55ms/230VAC 10ms/115VAC at full load			
VOLTAGE RANGE	85 ~ 264VAC 120 ~ 373VDC (Withstand 300VAC surge for 5sec. Without damage)			
FREQUENCY RANGE	47 ~ 63Hz			
EFFICIENCY (Typ.)	88%			
AC CURRENT (Typ.)	1.9A/115VAC 1.2A/230VAC			
INRUSH CURRENT (Typ.)	COLD START 50A/230VAC			
LEAKAGE CURRENT	<0.75mA / 240VAC			
	110 ~ 150% rated output power			
OVER LOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed			
	13.8 ~ 16.2V			
OVER VOLTAGE	Protection type : Shut down o/p voltage, re-power on to recover			
WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")			
	20 ~ 90% RH non-condensing			
	÷			
·	±0.03%/°C (0 ~ 50°C)			
	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes			
VIBICATION	III; Compliance to BS EN/EN61558, BS EN/EN50178, BS EN/EN60664-1, BS EN/EN62477-1; altitude up to			
OVER VOLTAGE CATEGORY III; Compilance to BS EN/EN61558, BS EN/EN50178, BS EN/EN60664-1, BS EN/EN62477-1; 2000 meters				
CAFETY OTANDARDO	UL 62368-1, TUV BS EN/EN62368-1, BS EN/EN60335-1, BS EN/EN61558-1/-2-16, GB 4943.1,			
SAFETY STANDARDS	BSMI CNS15598-1, EAC TP TC 004,S/NZS62368.1(by CB),KC K60950-1(for LRS-100-12/24 only),			
WITHCTAND VOLTAGE	BIS IS13252(Part1): 2010/IEC 60950-1: 2005(NOTE 9) approved I/P-O/P:4KVAC			
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, GB17625.1,GB/T 9254.1, BSMI CNS15936, EAC TP TC 020,KC KN32,KN35(for LRS-100-12/24 only)			
EMC IMMUNITY	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)			
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			
 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Line regulation is measured from low line to high line at rated load. Load regulation is measured from 0% to 100% rated load. Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time. The ambient temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m(6500ft). The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to EMI testing of component power supplies. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) Some model may not have the BIS logo, please contact your MEAN WELL sales for more information. Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 				
	RATED POWER RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE 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 speced in the special section of the special section is measured. In the proper supply is considered in the proper supply in the proper sup			

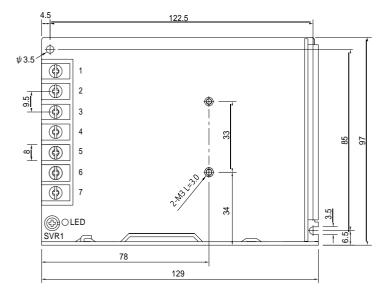


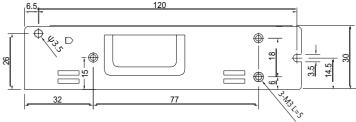




■ Mechanical Specification

Case No.238A Unit:mm





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

Get more info to : https://www.led-card.com/manufacturer/meanwell/