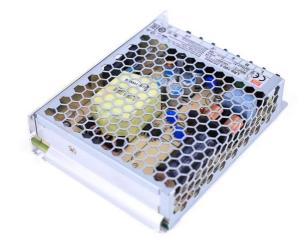


## LRS-100-5









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

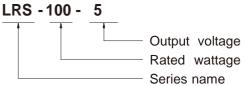
#### Description

LRS-100-5 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-100-5 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-100-5 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





### 100W Single Output Switching Power Supply

## LRS-100-5

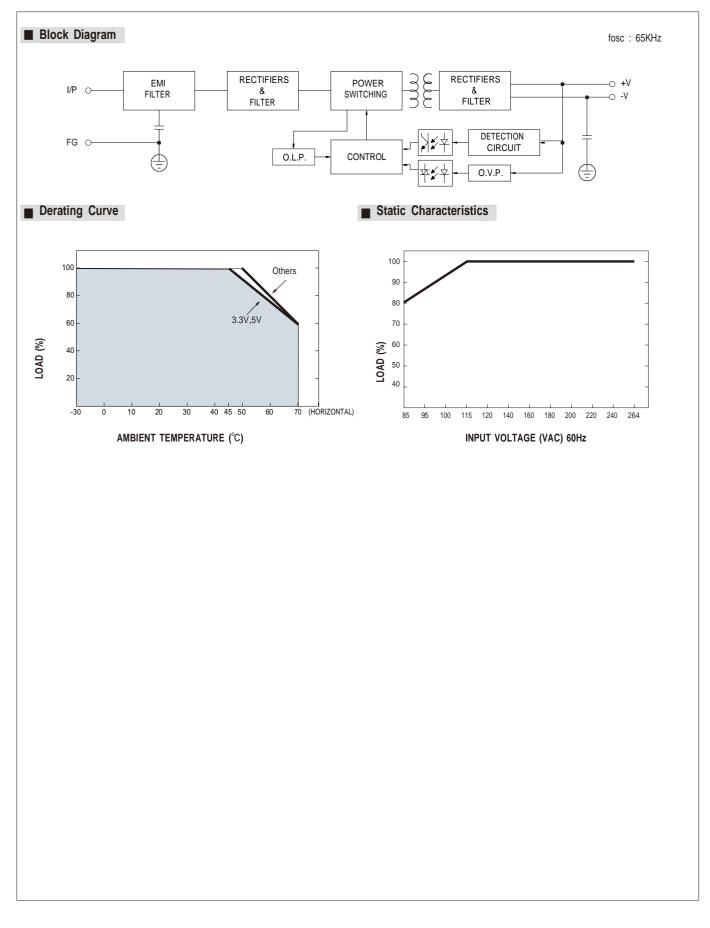
#### SPECIFICATION

	ATION				
MODEL		LRS-100-5			
	DC VOLTAGE	5V			
	RATED CURRENT	18A			
	CURRENT RANGE	0 ~ 18A			
	RATED POWER	90W			
	RIPPLE & NOISE (max.) Note.2	2 100mVp-p			
OUTPUT	VOLTAGE ADJ. RANGE	4.5 ~ 5.5V			
	VOLTAGE TOLERANCE Note.3	±2.0%			
	LINE REGULATION Note.4	±0.5%			
	LOAD REGULATION Note.5	±1.0%			
	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.)	86%			
INPUT	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			
PROTECTION		5.75 ~ 6.75V			
	OVER VOLTAGE	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			
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°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 & EMC (Note 8)	SAFETY STANDARDS	UL 62368-1, TUV BS EN/EN62368-1, BS EN/EN60335-1, BS EN/EN61558-1/-2-16, GB 4943.1, 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(NOTE 9) approved			
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC			
	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)			
OTHERS	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			
OTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance: includes set up tolerance, line regulation and load regulation.</li> <li>Line regulation is measured from low line to high line at rated load.</li> <li>Load regulation is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time.</li> <li>The ambient temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m(6500ft).</li> <li>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)</li> <li>Some model may not have the BIS logo, please contact your MEAN WELL sales for more information.</li> <li>Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</li> </ol>				



### 100W Single Output Switching Power Supply

## LRS-100-5



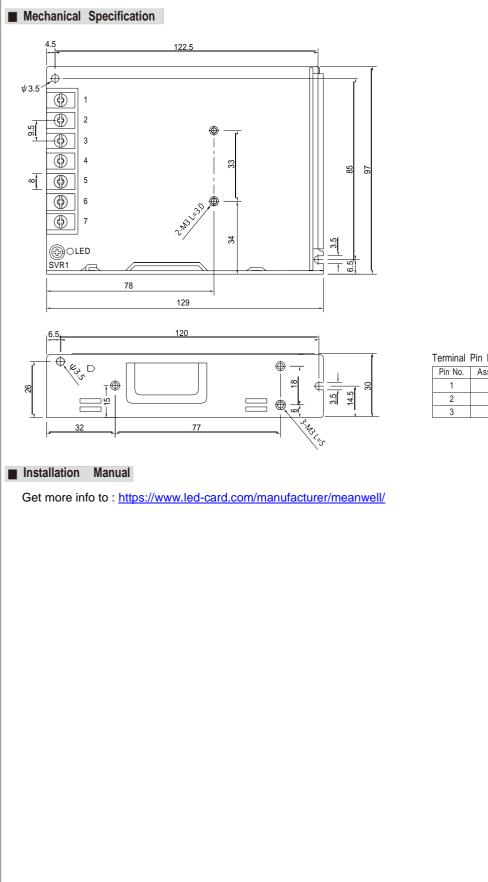


### 100W Single Output Switching Power Supply

# LRS-100-5

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 🗕		