PS-24-6.5A Power Supply



The PS-24-6.5A Power Supply consists of a 24 VDC single output switching power supply and one North American standard power cord.

• Input Voltage: 85~264 VAC; 47~63 Hz

Output Voltage: 24 VDC

Maximum Output Current: 6.5 A

• Dimensions: 159 x 97 x 30 mm

- Power cords for the UK, EU, and Italy can be purchased separately.
- When ordered in conjunction with TE Technology coolers and temperature controllers the interconnection cables are included free of charge.
- See additional pages for base power supply specifications.



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Features

- Universal AC input / Full range
- Withstand 300VAC surge input for 5 second
- No load power consumption<0.5W
- · Miniature size and 1U low profile
- High operating temperature up to 70°C
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · Cooling by free air convection
- Compliance to IEC/EN 60335-1(PD3) and IEC/EN61558-1, 2-16 for household appliances
- Operating altitude up to 5000 meters
- · Withstand 5G vibration test
- · High efficiency, long life and high reliability
- · LED indicator for power on
- Over voltage category III
- · 100% full load burn-in test

Applications

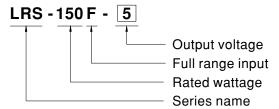
- · Industrial automation machinery
- Industrial control system
- · Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus
- Household appliances

Description

LRS-150F series is a 150W 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 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-150F 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 0.5W), it allows the end system to easily meet the worldwide energy requirement. LRS-150F has the complete protection functions and 5G anti-vibration capability; it is complied with the international safety regulations such as TUV EN60950-1, EN60335-1,EN61558-1/-2-16, UL60950-1 and GB4943. LRS-150F series serves as a high price-to-performance power supply solution for various industrial applications.

■ Model Encoding

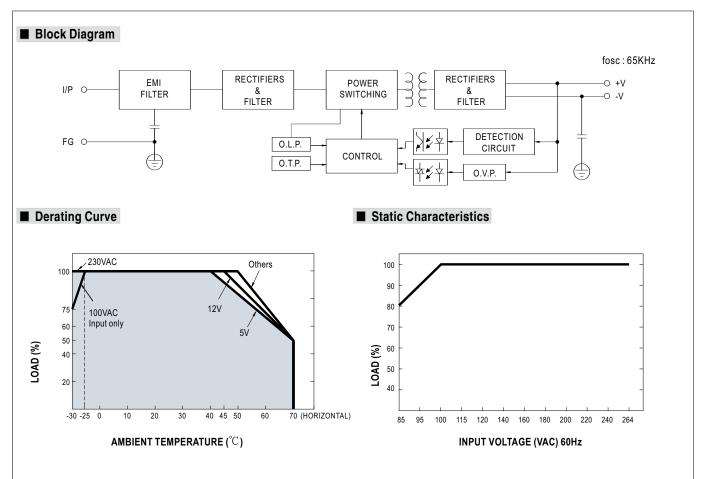




SPECIFICATION

	LRS-150F-24		
DC VOLTAGE	24V		
RATED CURRENT	6.5A		
CURRENT RANGE	0 ~ 6.5A		
RATED POWER	156 W		
RIPPLE & NOISE (max.) Note.2			
VOLTAGE ADJ. RANGE	21.6 ~ 28.8V		
VOLTAGE TOLERANCE Note.3	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.)	16ms/230VAC 12ms/115VAC at full load		
VOLTAGE RANGE	85 ~ 264VAC 120 ~ 370VDC		
FREQUENCY RANGE	47 ~ 63Hz		
EFFICIENCY (Typ.)	89%		
AC CURRENT (Typ.)	3A/115VAC 1.7A/230VAC		
INRUSH CURRENT (Typ.)	COLD STAR 60A/230VAC		
LEAKAGE CURRENT	<0.75mA / 240VAC		
OVER LOAD PROTECTION OVER VOLTAGE	110 ~ 140% rated output power		
	Protection type : Hiccup mode, recovers automatically after fault condition is removed		
	28.8 ~ 33.6V		
OVER VOLINGE	Protection type : Shut down o/p voltage, re-power on to recover		
OVER TEMPERATURE	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			
TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)		
	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes		
OVER VOLTAGE CATEGORY			
SAFETY STANDARDS	UL60950-1, TUV EN60950-1, EN60335-1, EN61558-1/-2-16, CCC GB4943.1, BSMI CNS14336-1, EAC TP TC004, AS/NZS 60950.1(by CB) approved		
WITHSTAND VOLTAGE	GE 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 EN55032 (CISPR32) Class B, EN55014, EN61000-3-2 Class A(≤80% Load),EN61000-3-3, GB/T 9254, BSMI CNS13438, EAC TP TC 020		
EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), heavy industry level, criteria A, EAC TP TC 020		
MTBF	648.6K hrs min. MIL-HDBK-217F (25°C)		
DIMENSION	159*97*30mm (L*W*H)		
PACKING	0.48Kg; 30pcs/15.4Kg/0.75CUFT		
 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 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 http://www.meanwell.com) The ambient temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m (6500ft). 			
	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 OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION OVER VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT specasion. SEMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters not specasion. Semc Immunity MTBF DIMENSION PACKING 1. All parameters not specasion. Semc Immunity MTBF DIMENSION PACKING 1. All parameters not specasion. Semc Immunity MTBF DIMENSION PACKING 1. All parameters not specasion. Semc Immunity MTBF DIMENSION PACKING 1. All parameters not specasion. Semc Immunity MTBF DIMENSION PACKING 1. All parameters not specasion. Semc Immunity MTBF DIMENSION PACKING 1. All parameters not specasion. Semc Immunity MTBF DIMENSION PACKING 1. All parameters not specasion. Semc Immunity MTBF DIMENSION PACKING 1. All parameters not specasion. Semc Immunity MTBF DIMENSION PACKING 1. All parameters not specasion. Semc Immunity MTBF DIMENSION PACKING 1. All parameters not specasion. Semc Immunity MTBF DIMENSION PACKING 1. All parameters not specasion. Semc Immunity MTBF DIMENSION PACKING 1. All parameters not specasion.		

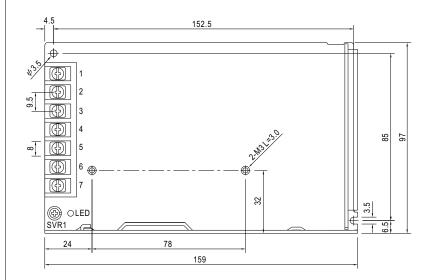


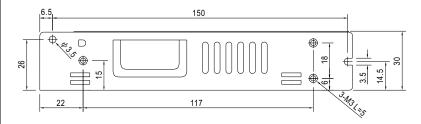




■ Mechanical Specification

Case No.241A 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

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