



## 150W LRS-150 series Single Output Switching Power Supply

### Features:

- AC input range selectable by switch
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage/ Over temperature
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- High operating temperature up to 70°C
- High efficiency, long life and high reliability

SPECIFICATION					
OUTPUT					
Model	<b>LRS-150-12</b>	LRS-150-15	LRS-150-24	LRS-150-36	LRS-150-48
DC Voltage	<b>12V</b>	15V	24V	36V	48V
Rated Current	<b>12.5A</b>	10A	6.5A	4.3A	3.3A
Current Range	<b>0~12.5A</b>	0~10A	0~6.5A	0~4.3A	0~3.3A
Rated Power	<b>150W</b>	150W	156W	154.8W	158.4W
Ripple&Noise	<b>150mVp-p</b>	150mVp-p	200mVp-p	200mVp-p	200mVp-p
VoltageAdj. Range	<b>10.2~ 13.8V</b>	13.5~18V	21.6~28.8V	32.4~39.6V	43.2~52.8V
Voltage Tolerance	<b>±1.0%</b>	±1.0%	±1.0%	±1.0%	±1.0%
Line Regulation	<b>±0.5%</b>	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation	<b>±0.5%</b>	±0.5%	±0.5%	±0.5%	±0.5%
Setup,Rise Time	500ms, 30ms/230VAC 500ms, 30ms/115VAC at full load				
Hold Up Time	40ms/230VAC 35ms/115VAC at full load				
INPUT					
Voltage Range	<b>85 ~ 132VAC / 170 ~264VAC 240 ~ 370VDC(switch on 230VAC)</b>				
Frequency Range	<b>47 ~ 63Hz</b>				
Efficiency	87.5%	88.5%	89%	89%	90%
AC Current	2.8A/115VAC 1.6A/230VAC				
Inrush Current	Cold start 60A/230VAC				
Leakage Current	<0.75mA / 240VAC				
PROTECTION					
Over Load	110 ~ 140% rated output power				
	Protection type: Hiccup mode, recovers automatically after fault condition is removed				
Over Voltage	13.8~16.2V	18.75~21.75V	28.8~33.6V	41.4~48.6V	55.2~64.8V
	Protection type: shut down o/p voltage, re-power on to recover				

<b>ENVIRONMENT</b>	
Working Temp.	-30 ~ +70°C (Refer to “derating curve”)
Working Humidity	20 ~ 90% RH non-condensing
StorageTemp., Humidity	-40 ~ +85°C, 10 ~ 95% RH
Temp. Coefficient	±0.03%/°C (0 ~ 50°C)
Vibration	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes
<b>SAFETY &amp;EMC</b>	
Safety Standards	UL60950-1, TUV EN60950-1, EN60335-1/-2-16, CCC GB4943 approved
Withstand Voltage	I/P-O/P:3.75KVAC 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 EN55022(CISPR22), GB9254 CLASS B, EN55014 EN61000-3-2,-3 class A, EN61000-3-3
EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61000-6-2(EN50082-2), heavy industry level, criteria A
<b>OTHERS</b>	
Dimension	<b>159*97*30mm (L*W*H)</b>
Weight	<b>0.48Kg</b>
Packing	<b>30pcs/carton/15.4kg/0.75CUFT</b>
<b>NOTE</b>	

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12” twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
3. Tolerance: includes set up tolerance, line regulation and load regulation.
4. Line regulation is measured from low line to high line at rated load.
5. Load regulation is measured from 0% to 100% rated load.
6. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meetsEMC directives.
7. 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.