



Dimension: 111*78*30mm



■ Applications :

- LED lighting
- Industrial automation machinery
- Industrial control system
- Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus

■ Features :

- Universal AC input/Full range
- Miniature size and 1U low profile, low weight
- Protections : Short circuit/Overload/Over voltage
- Cooling by free air convection
- No load power consumption < 0.5W
- Operating altitude up to 5000 meters (Note6)
- LED indicator for power on
- 100% full load burn-in test
- High efficiency, long life and high reliability
- 2 years warranty

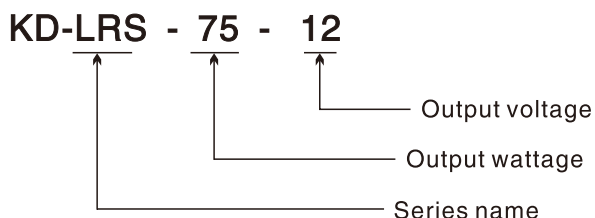
■ Description :

KD-LRS-75 series is a 75W single-output enclosed type power supply with 30mm of low profile design. Adopting the full range 85~264 VAC 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 91%, the design of metallic mesh case enhances the heat dissipation of KD-LRS-75 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-75 has the complete protection functions and 3G anti-vibration capability; it is complied with the international safety regulations such as TUV EN 62368-1 , UL 62368-1 and GB 4943, TUV EN61347-1 , UL 61347-1

KD-LRS-75 series serve as a high price-to-performance power supply solution for various industrial applications.

■ Model Encoding



SPECIFICATION

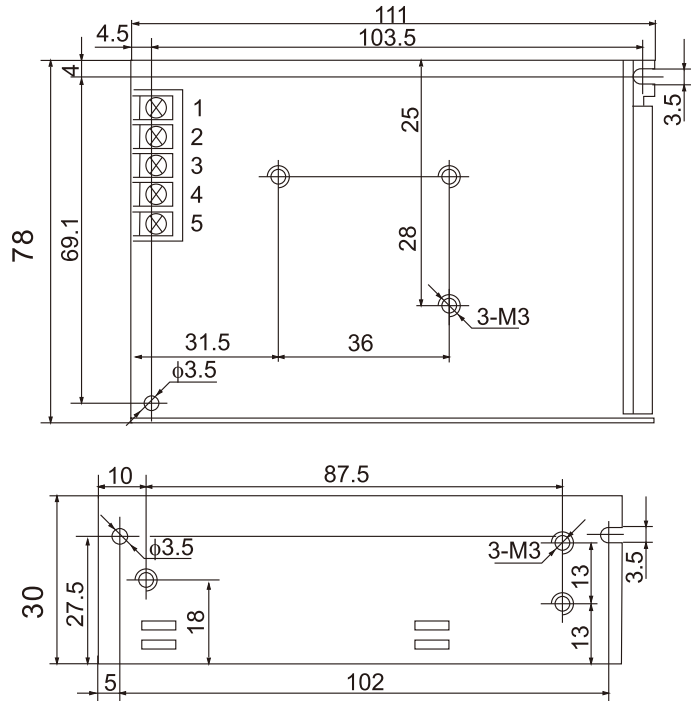
Model		KD-LRS-75-5	KD-LRS-75-12	KD-LRS-75-15	KD-LRS-75-24	KD-LRS-75-36	KD-LRS-75-48	
Output	DC voltage	5V	12V	15V	24V	36V	48V	
	Rated current	10A	6.3A	5A	3.2A	2.1A	1.6A	
	Current range	0~10A	0~6.3A	0~5A	0~3.2A	0~2.1A	0~1.6A	
	Rated power	50W	75.6W	75W	76.8W	75.6W	76.8W	
	Ripple&noise	100mVp-p	120mVp-p	120mVp-p	150mVp-p	200mVp-p	200mVp-p	
	DC voltage ADJ. range	± 10%	± 10%	± 10%	± 10%	± 10%	± 10%	
	Voltage tolerance <small>Note.3</small>	± 3%	± 2%	± 1%	± 1%	± 1%	± 1%	
	Line regulation <small>Note.4</small>	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	
	Load regulation <small>Note.5</small>	± 2%	± 1%	± 0.5%	± 0.5%	± 0.5%	± 0.5%	
	Setup,rise,hold up time	800ms,30ms,55ms/230VAC(full load)						
Input	Voltage range	90~264VAC ,127~373VDC(Withstand 300VAC surge input for 5 second)						
	Frequency range	47~63Hz						
	AC current	1.9A/115VAC 1.2/230VAC						
	Efficiency	86%	88%	88.5%	90%	90.5%	91%	
	Inrush current	Cold start 50A/230VAC						
	leakage current	<0.75mA/240VAC						
Protection	Overload	Rated output power110% ~ 150%Start overload protection						
		Protection type:hiccup mode,auto-recovery after fault condition is removed						
	Over voltage	Rated output voltage 115%~135% Start over voltage protection						
		Protection type:cut off the output,auto-recovery after fault condition is removed						
Environment	Working temperature	-30°C ~ +70°C(Please refer to“derating curve”)						
	Working humidity	20%~90%RH Non-condensing						
	Storage temp& humidity	-40°C ~ +85°C;10%~95%RH Non-condensing						
	Withstand vibration	10~500Hz,3G 10min./1Cycle, Period for 60min, Each axes						
Safety	Withstand voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC						
	Isolation resistance	I/P-O/P,I/P-FG,O/P-FG: 100M Ohms/500VDC/25°C/70%RH						
Standards compliance	Safety standards	Compliance to UL 62368 -1,TUV EN62368-1,UL 61347-1,TUV EN 61347-1						
	EMC emission	Compliance to EN 55032,EN 55015(CISPR22)Class A, GB9254 Class A,EN 55014,EN 61000-3-2,3						
	EMC immunity	Compliance to EN 61000-4-2,3,4,5,6,8,11, EN 55024,EN 61000-6-1						
Others	Dimension	111*78*30 mm (L*W*H)						
	Weight	0.34kg/60pcs/20kg/0.035m³/1.23CUFT						
	MTBF	≥ 705K hrs min. MIL-HDBK-217F(25°C)						

Note: 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 ambient temperature derating of 5°C/1000 m is needed for operating altitude greater than 2000m(6500ft)
- 7.The power supply is considered as a component which will be installed into a finalequipment.The final equipment must be re-confirmed that it still meets EMC directives.For guidance on how to perform these EMC tests.

Mechanical specification

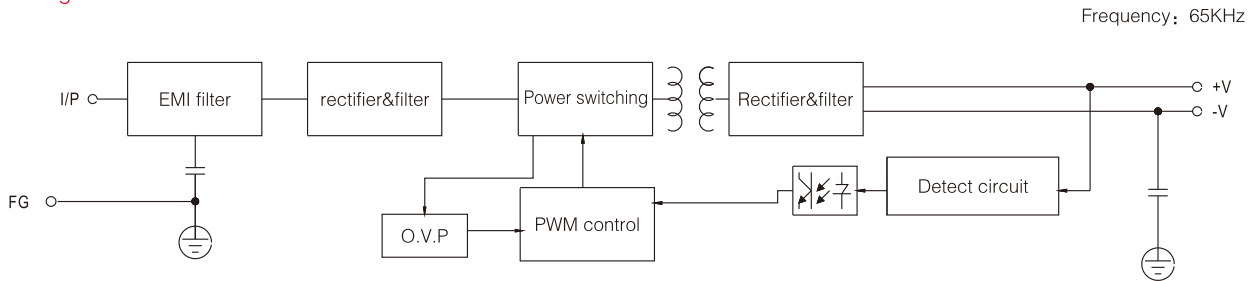
Unit:mm



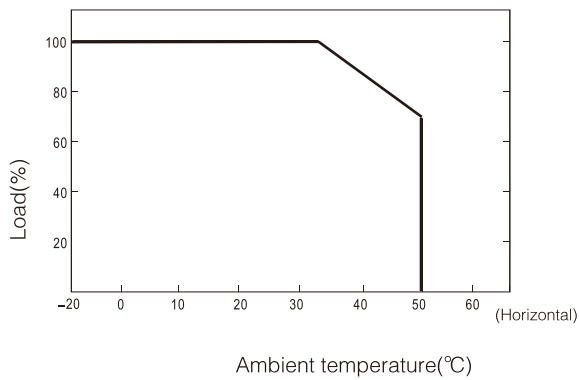
Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT -V
2	AC/N	5	DC OUTPUT +V
3	FG \perp		

Block diagram



Derating curve



Static characteristic

