Features:

- Universal AC input / Full range
- Withstand 300Vac surge input for 5 seconds
- No load power consumption < 0.3W
- Miniature size and 1U Low profile
- High operating temperature up to 70 ℃
- Protections: Short circuit /Over load /Over voltage
- Cooling by free air convection
- Operating altitude up to 5000 meters
- Withstand 5G vibration test
- High efficiency, long life and high reliability
- LED indicator for power on
- 100% full load burn-in test
- 3 years warranty

Specification

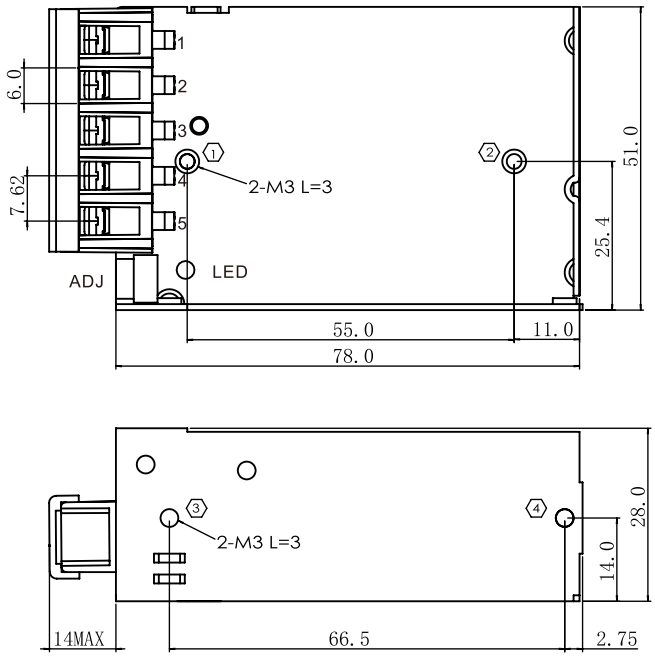
MODEL		LS-25-24
INPUT	VOLTAGE RANGE	85～264Vac 120～370Vdc(refer to 'static characteristic')
	FREQUENCY RANGE	47～63Hz
	EFFICIENCY(Typ.)	88%
	AC CURRENT(Typ.)	0.6A/115Vac 0.4A/230Vac
	INRUSH CURRENT(Typ.)	50A/230Vac (cold start)
	LEAKAGE CURRENT	<0.75mA/240Vac
OUTPUT	DC VOLTAGE	24V
	RATED CURRENT	1.05A
	CURRENT RANGE	0～1.05A
	RATED POWER	25.2W
	RIPPLE&NOISE(max.)	120mVp-p
	VOLTAGE ADJ.RANGE	21.6～28.8V
	VOLTAGE TOLERANCE	±1%
	LINE REGULATION	±0.5%
	LOAD REGULATION	±0.5%
	SETUP, RISE TIME	1000ms,30ms/230Vac 2000ms,30ms/115Vac at full load
	HOLD UP TIME(Typ.)	30ms/230Vac 12ms/115Vac at full load
PROTECTION	OVER LOAD	110%～150% rated output power
		Protection type: Hiccup mode, recovers automatically after fault condition is removed
	OVER VOLTAGE	28.8~33.6V
		Protection type: Hiccup mode ,.recovers automatically after fault condition is removed
ENVIRONIMENT	WORKING TEMP	-30～+70℃ (Refer to 'derating curve')
	WORKING HUMIDITY	20～90% RH non-condensing
	STORAGE TEMP,HUMIDITY	-40～+85℃, 10～95% RH non-condensing
	TEMP. COEFFICIENT	±0.03%/℃ (0～50℃)
	VIBRATION	10～500Hz, 5G 10min./1 cycle, period for 60 min. each along X、Y、Z axes

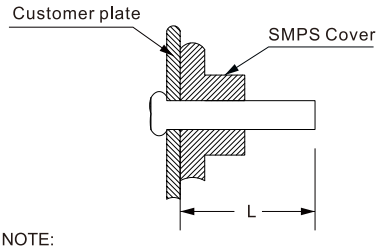
Safety and electromagnetic compatibility	Safety standards	Refer to UL62368-1,TUV EN62368-1,CCC GB4943.1		
	Withstand voltage and isolation resistance	I/P-O/P: 3KVac; 100MΩ / 500Vdc / 25℃ / 70%RH		
		I/P-FG: 2KVac; 100MΩ / 500Vdc / 25℃ / 70%RH		
		O/P-FG: 0.5KVac; 100MΩ / 500Vdc / 25℃ / 70%RH		
	Electromagnetic compatibility emission	**Parameter**	**Standard**	**Test Level / Note**
		Conducted emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 ,GB9254.1	Class B
		Radiated emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 ,GB9254.1	Class B
		Harmonic current	BS EN/EN61000-3-2,GB17625.1	Class A
		Voltage flicker	BS EN/EN61000-3-3	----
	Electromagnetic compatibility immunity	BS EN/EN55035		
		Parameter	**Standard**	**Test Level /Note**
		ESD	BS EN/EN61000-4-2	Level 4, 8KV air, Level 2, 4KV contact, criteria A
		RF field susceptibility	BS EN/EN61000-4-3	Level 3, criteria A
		EFT bursts	BS EN/EN61000-4-4	Level 3, criteria A
		Surge susceptibility	BS EN/EN61000-4-5	Level 3, 1KV/L-N, 2KV/L/N-FG criteria A
		Conducted susceptibility	BS EN/EN61000-4-6	Level 3, criteria A
		Magnetic field immunity	BS EN/EN61000-4-8	Level 4, criteria A
		Voltage dips and interruptions	BS EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods , >95% interruptions 250 periods
OTHERS	MTBF	≥760Khrs MIL-HDBK-217F(25℃)		
	DIMENSION	78*51*28mm(L*W*H)		
	PACKING	0.18Kg; 60pcs/ 11.8Kg/ 0.58 CUFT		

NOTE

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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. 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.
7. The ambient temperature derating of 5℃/1000m is needed for operating altitude great than 2000m(6500ft).
8. 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.

Mechanical specification





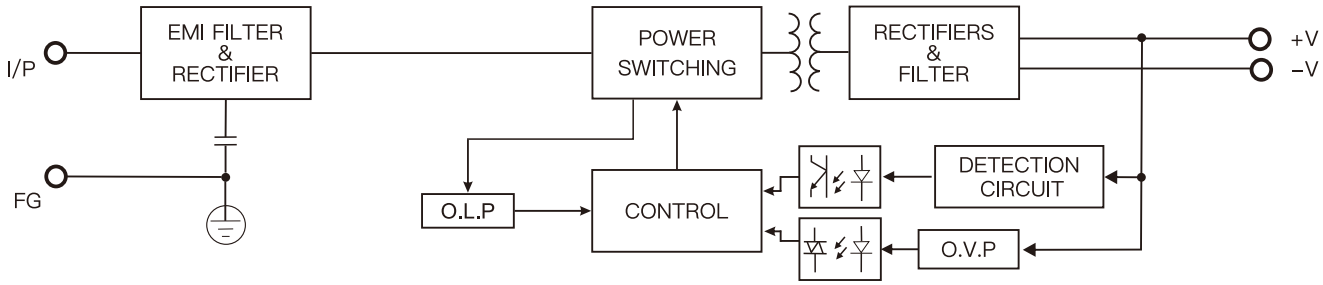
NOTE:
Unit: mm
ADJ:Output adjustable resistor
Torque:M3, 0.5N • m Max
TOL: ±1.00

Position No.	Screw Size	L max	Torque max
1-2	M3	3mm	0.4N • m
3-4			

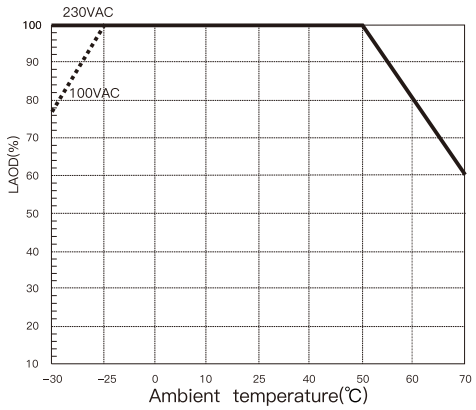
Screw Terminal

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT –
2	AC/N	5	DC OUTPUT +
3	FG		

Block diagram



Derating curve



Static characteristics