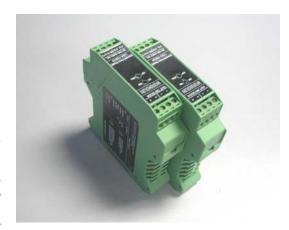


LI24 Series

24W, SINGLE OUTPUT DIN-RAIL POWER SUPPLIES

LI24 is a series of DIN-Rail green power supplies with high efficiency and excellent price/performance ratio provided by MORNSUN. This series provide stability and high immunity against electrical disturbance for loads in industrial process controls, machine tools and other equipment exposed to a difficult industrial environment. Compact size, light weight, standard Din Rail installation(35mm) are other features of these power supplies, which saves a lot of space for your design. Build-in large capacitor provides for you enough hold-up time.



PRODUCT FEATURES

- 1 Standard Din Rail installation
- 2 AC and DC all in one (input from the same terminal)
- 3 Universal input voltage:85VAC to 264VAC
- 4 Output voltage adjustable
- 5 Low ripple & noise
- 6 Input under voltage lockout
- 7 Overload and short-circuit protection

- 8 Efficiency: 85% typ
- 9 Heat dissipation: natural
- 10 Switching frequency: 60-100kHz
- 11 MTBF>200,000 hours
- 12 Meet product standards of industrial class
- 13 Redundancy Module
- 14 3-year product warranty

MODEL LIST						
Model	Output power	Input voltage range	Output voltage/current (Vo/Io)	Ripple & noise	Efficiency	
LI24-10B05		100 - 240VAC	5V/4000mA	50mV	75	
LI24-10B12	24W	(85 - 264VAC)			85	
LI24-10B24		50/60Hz	24V/1000mA		87	

Notes

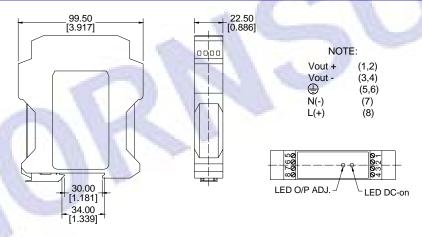
- 1. Ripple and Noise were measured by a method with twisted-pair wires;
- 2. Unless otherwise specified, all specifications above are measured at rated input voltage and rated output load, TA=25°C, humidity < 75%.;
- 3. All specifications stated in this datasheet are subject to the above listed models only. For specifications of non-standard models, please contact our technical support team directly.

GENERAL SPECIFICATIONS		
Temperature operating: storage: power derating above 55°C:	-10°C to +70°C max -25°C to +85°C max 3.75% /°C	
humidity	95% max	
Temperature coefficient	0.02%/ °C	
Switching frequency	60 - 100KHZ	
Efficiency	85% typ.	
Isolation voltage	Input/Output 3000VAC	
MTBF	200,000h @ 25°C	
EMI	EN55022, level B FCC Part 15, level B	
EMS Electrostatic discharge ESD RF field susceptibility Electrical fast transients/bursts on mainsline Surge	IEC/EN 61000-4-2 4kV/8kV IEC/EN 61000-4-3 3V/m IEC/EN 61000-4-4 1kV IEC/EN 61000-4-5 level 3 1kV/2kV	
Safety standards	UL 60950, IEC 60950, EN 60950	
Safety approval	UL 60950, IEC 60950, EN 60950	
Safety class	Class 1	
Case protection	IP 20	
Mounting	35mm DIN-Rail	

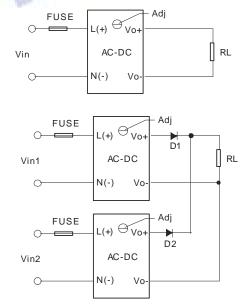
INPUT SPECIFICATIONS				
Input voltage range	100 - 240VAC(85 - 264V/ 140 - 340VDC(120 - 370)	,		
Input frequency	47 - 63Hz	47 - 63Hz		
Input current(full load)	115VAC 450mA	230VAC 220mA		
Inrush(<2ms)	115VAC 16A	230VAC 30A		
Input under voltage lockout	80VAC (±10%)	80VAC (±10%)		
External fuse(recommended)	3.15A/250V slow blow			

OUTPUT SPECIFICATIONS		
Output voltage		Regulate range(TYP.)
	LI24-10B05	5.0 - 5.5VDC
	LI24-10B12	12 - 14VDC
	LI24-10B24	24 - 28VDC
Load variation (10% - 90%)		±1%
Output ripple & noise(peak-peak) 20M	l Bandwidth	50mV typ.
Short circuit protection		Continuous and auto resume
Over current protection		
	LI24-10B05	4.4A typ.
	LI24-10B12	2.4A typ.
	LI24-10B24	1.3A typ.
Over voltage protection		
	LI24-10B05	6.5V max
	LI24-10B12	20V max
	LI24-10B24	30V max
Hold-up time Vin=230Vac		80ms typ.

OUTLINE DIMENSIONS (Unit:mm)



TYPICAL APPLICATION



General Application

- 1. Vin: 85 264VAC or 120 370VDC;
- Adj: Adjusting terminal of output voltage. Users can adjust any load freely within the range of output voltage according to your own need.

Parallel connec

tion Application

- Two same Din Rail power supplies are in use of parallel connection application, Vin1 and Vin2 are both 85-264VAC or 120-370VDC;
- Adj: Adjusting terminal of output voltage. Users can adjust any load freely within the range of output voltage according to your own need.
- When AC-DC2's output voltage is a little lower than AC-DC1's, AC-DC2 is becoming a spare power supply for load, as Vin1 is off or AC-DC1 is in fault.
- When Vin1 and Vin2 are supplying power to Din Rail power supply alternately, Din Rail power supply will work alternately and supply power to load sostenuto.