

24W Wall Mount Power Supply Adapter

Features:

- Small low profile package
- No-load consumption<0.1W, Meet DOE VI
- Isolation level: Class II
- Protections: Short circuit/overload/overvoltage
- RoHS、Reach compliance
- LED indicator function optional
- Hi Anti-thunder, Hi ESD protection, Hi-Rel

Application:

- Ethernet devices
- Portable tool
- Audio, Video player
- STB, Network devices
- Charger/PD charger

Description:

The F24L9/F24L15 series model is a wall-mounted power adapter with a plastic shell design, which can effectively prevent users from electrical hazards. Its working efficiency meets the latest energy efficiency requirements. It can work safely and effectively in an ambient temperature of 0°C to 40°C. It has complete protection function and is also in line with the relevant certification of electronic information & audio and video(IEC60950、IEC60065、IEC62368). It uses 24W shell, and 24# wire to be compatible with level 5 or 6 energy efficiency. The lightning strike meets 4KV. EMC is designed with Y-cap.



MODEL	F24L9-120200SP	F24L15-120200SP	
Output	DC Voltage	12V	
	Rated Current	2A	
	Current Range	0 ~ 2A	
	Rated Power	24W	
	Ripple & Noise (max.)remark 2	120mVp-p	
	Voltage regulation rage	11.4 ~ 12.6V	
	Voltage accuracy remark 3	±5.0%	
	linear adjustment rate	±1.0%	
	Load Stability	±3.0%	
	Start and rise time	2000ms, 80ms/230VAC 3000ms, 80ms/115VAC(Full load)	
Retention time(Typ.)	20ms/230VAC 10ms/115VAC(Full load)		
Input	Voltage range	90 ~ 264VAC(277VAC accessible, compatible with 300VAC in India high)	
	Frequency range	47 ~ 63Hz	
	Stand-by power consumption	100mW	
	Efficiency(Typ.)	86.2%	
	AC current(Typ.)	0.6A max @100 ~ 240Vac	
	(Typ.) Surge(Typ.) current	COLD START 30A/100Vac	
Protection	Overload	110~145% rated output power Hiccup mode: output voltage<50%, recovers automatically after fault condition is removed.Constant current mode: output 50%<voltage < 100%, recovers automatically after fault condition is removed.	
	Overvoltage	18 ~ 24V	
	Protection Type: Turn off the output, through the PWM control chip built-in VDD voltage clamping		

MODEL	F24L9-120200SP	F24L15-120200SP			
Environment	Working TEMP	0 ~ +40°C (45°C can work)			
	Working Humidity	20 ~ 95% RH, non-condensing			
	Storage Temp.& humidity	-20 ~ +75°C, 20 ~ 95% RH, non-condensing			
	Temperature coefficient	±0.03%/°C (0 ~ 50°C)			
	Vibration resistance	10 ~ 500Hz, 1G 10min/cycle, X, Y, Z 30min for each			
	Operating altitude	5000m			
	Withstand voltage(Hi-Pot)	I/P-O/P:3KVAC			
	Insulation resistance	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH			
Electromagnetic compatible	Electromagnetic compatible emission	Parameter	Standard	Test Level / Note	
		Conducted	EN55032(CISPR32), FCC Part 15B	Class B	
		Radiated	EN55032(CISPR32), FCC Part 15B	Class B	
		Harmonic Current	EN61000-3-2	Class A	
	Voltage Flicker	EN61000-3-3	-----		
	Electromagnetic compatibility immunity	EN55035, EN61000-6-2, EN61204-3			
		Parameter	Standard	Test Level /Note	
		ESD	EN61000-4-2	Level 3, 15KV air; Level 2, 8KV contact, criteria A	
		Radiated Susceptibility	EN61000-4-3	Level 3, criteria A	
		EFT/Burest	EN61000-4-4	Level 3, criteria A	
Surge		EN61000-4-5	Level 4, 4KV/L-N, criteria A		
Safety	Safety Standards	IEC/EN60950、60065、62368			
		Safety type “●”Indicates that it is currently certified, “◎”Indicates that the applicant meet the certification requirement but not	CB	●	●
			CE+LVD	●	●
			BIS	◎	◎
			UL/CUL	●	●
			GS	●	●
			PSE	◎	◎
			PSB	◎	◎
			CCC	◎	◎
			RCM	◎	◎
BSMI	◎		◎		
IRAM	◎		◎		
KC	●		●		
SABS	◎		◎		
SASO	◎		◎		
EAC	◎		◎		
B-MARK	◎		◎		
SII	◎	◎			
BR	◎	◎			
Other	MTBF	≥100K hrs. MIL-HDBK-217F (25°C)			
	尺寸(W*H*D)	73.5*50.4*33mm			
Remark	1. All specifications and parameters shall be measured at the input of 230VAC, rated load and ambient temperature of 25°C unless otherwise specified. 2. Ripple and noise measurement method: capacitance of 0.1uF and 47uF in parallel at the terminal and the measurement is performed under the 20MHZ bandwidth. 3. Accuracy: includes setting error, linear adjustment rate and load adjustment rate. 4. The power supply adapter is an independent component, but the final adapter still needs to be confirmed in connection with the electromagnetic compatibility of the terminal equipment.				