

## 18W 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 F18L16 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 18W 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	F18L16-120150SP	
Output	DC Voltage	12V
	Rated Current	1.5A
	Current Range	0 ~ 1.5A
	Rated Power	18W
	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.)	85%
	AC current(Typ.)	0.6A max @100 ~ 240Vac
	(Typ.) Surge(Typ.) current	COLD START 30A/100Vac 40A/240Vac
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

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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 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	
Electromagnetic compatible immunity	Voltage Flicker	EN61000-3-3	-----	
	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	
	Conducted	EN61000-4-6	Level 3, criteria A	
	Magnetic Field	EN61000-4-8	Level 4, criteria A	
	Voltage Dips and interruptions	EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods	
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)		
	Size(W*H*D)	68*42*28mm		
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.			