





■ Features

- Universal AC input / Full range (Withstand 300VAC surge input for 5 seconds)
- Built-in active PFC function
- High efficiency up to 91%
- · Design against rain splash
- Protections: Short circuit / Overload / Over voltage/ Over temperature
- Cooling by free air convection
- · LED indicator for power on
- · Low cost, high reliability
- 100% full load burn-in test
- 3 years warranty

Applications

- LED strip lighting
- · LED channel letters
- LED moving sign

■ Description

ERPF-400 series is a 400W single output enclosed type AC/DC power surply with the active PFC design. It adopts an aluminum case and the interior is semi-potted, protecting the internal electronic components from rain splash and dust. With the complete protection functions, ERPF-400 is suitable for the applications such as outdoor LED channel letters, billboard, commercial signs, etc.

Model Encoding ERPF - 400 - 24 Output voltage(12V/24V/48V) Output wattage Series name

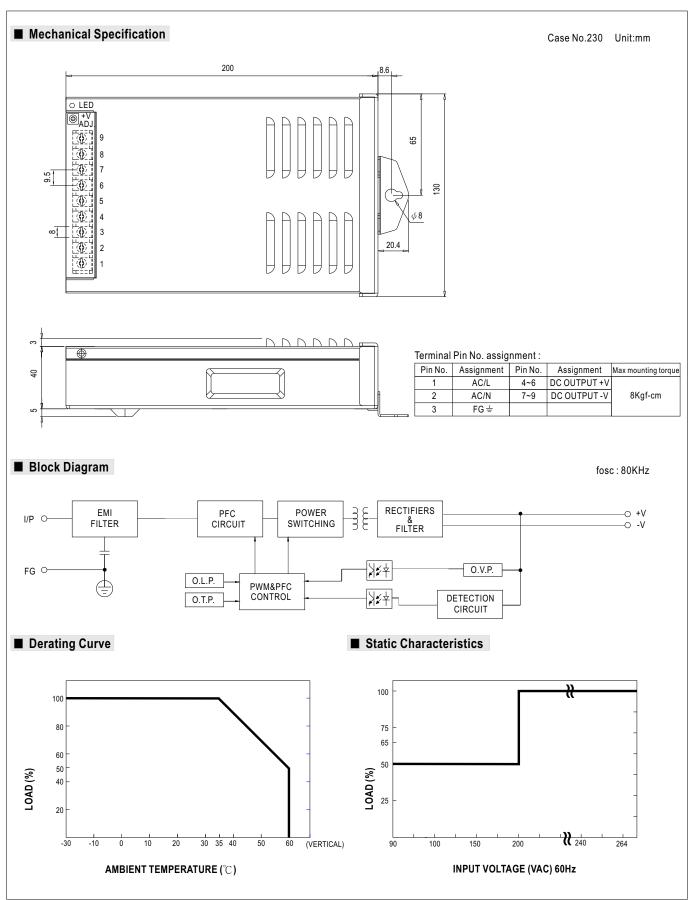
400W Single Output Switching Power Supply

ERPF-400 series

SPECIFICATION

MODEL		ERPF-400-12	ERPF-400-24	ERPF-400-48	
	DC VOLTAGE	12V	24V	48V	
ОИТРИТ	RATED CURRENT	30A	16.7A	8.3A	
	CURRENT RANGE Note.5	0 ~ 30A	0 ~ 16.7A	0~8.3A	
	RATED POWER	360W	400.8W	398.4W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	240mVp-p	
	VOLTAGE ADJ. RANGE	10.8 ~ 13.2V	21.6 ~ 26.4V	43.2 ~ 52.8V	
	VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME	2000ms, 100ms/230VAC; 3000ms, 100ms/115VAC at full load			
	HOLD UP TIME (Typ.)	10ms/230VAC; 10ms/115VAC at full load			
INPUT	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR (Typ.)	PF≧0.95/230VAC, PF≧0.98/115VAC			
	EFFICIENCY (Typ.)	89%	90%	91%	
	AC CURRENT (Typ.)	2.5A/230VAC 3A/115VAC	90 /0	3170	
	INRUSH CURRENT (Typ.)	cold start 45A/115VAC, 90A/230VAC			
	LEAKAGE CURRENT	<1mA / 240VAC			
PROTECTION	LEARAGE CURRENT	105 ~ 135% rated output power			
	OVER LOAD	Protection type: Constant current limiting, recovers automatically after fault condition is removed			
	SHORT CIRCUIT	Protection type: Constant current limiting, recovers automatically after fault condition is removed Protection type: Constant current limiting, recovers automatically after fault condition is removed			
	SHOKI CIRCUII	,			
	OVER VOLTAGE	13.8 ~ 16.2V	27.6 ~ 32.4V	55.2 ~ 64.8V	
		Protection type: Shut down O/P voltage, re-power on to recover			
	OVER TEMPERATURE	Shut down O/P voltage, recovers automatically after temperature goes down			
ENVIRONMENT	WORKING TEMP.	-30 ~ +60°C (Refer to output load derating curve)			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-30 ~ +85℃, 10 ~ 95% RH			
	TEMP. COEFFICIENT	±0.1%/°C (0~35°C)			
	VIBRATION	10 ~ 500Hz, 3G 10min./1cycle, 60min. each along X, Y, Z axes			
SAFETY & EMC (Note.6)	SAFETY STANDARDS	CCC GB4943.1-2011 approved			
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC / 25°C / 70% RH			
	EMC EMISSION	Compliance to EN55022 (CISPR22) class A, GB9254 class A, GB17625.1; EN61000-3-2			
	EMC IMMUNITY	Compliance to EN61000-4-5; light industry level, criteria A			
OTHERS	MTBF	233.422Khrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	220.4*130*48mm (L*W*H)			
	PACKING	1.1Kg; 9pcs / 11Kg / 0.63CUFT			
NOTE	Ripple & noise are measure Tolerance : includes set up t Derating may be needed un- Please refer to "Static Chara The power supply is conside a 450mm*450mm metal plat	ly mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. d at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. der low input voltages. Please check the static characteristics for more details. acteristics". ared a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on the with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to lease refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com).			

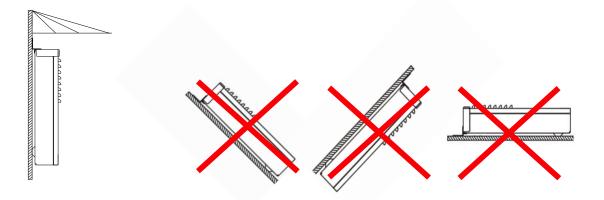






■ Installation

- 1.ERPF-400 is designed for outdoor application and should be installed in the place with shelter.
- 2.ERPF-400 should be installed in an upright position, leaning forward, backward or lay flat are not allowed



Correct installation method

Faulty installation methods

3. For heat dissipation, at least 20cm installation distance around the PSU should be kept, shown as below:

