



PSW-480 Series Specifications



Features:

- Single and two phase wide input range 180~550VAC
- High efficiency 93% and low power dissipation
- Protections: Short Circuit / Overload / Over Voltage / Overtemperature
- Cooling by free air convection
- DIN rail mountable
- UL 508(industrial control equipment) approved
- EN61000-6-2 (EN50082-2) industrial immunity level
- Built-in DC OK relay contact
- 100% full load burn-in test
- 3 year warranty

OUTPUT

INPUT

PROTECTION

ENVIRONMENT

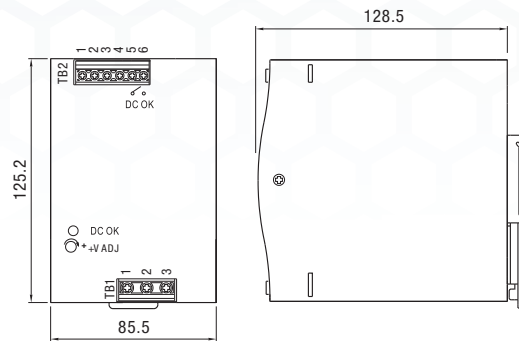
SAFETY & EMC

OTHERS

Cat. No.	PSW-48024	PSW-48048
DC VOLTAGE	24V	48V
RATED CURRENT	20A	10A
CURRENT RANGE	0 ~ 20A	0 ~ 10A
RATED POWER	480W	480W
RIPPLE & NOISE (max)	100mVp-p	150mVp-p
VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 55V
VOLTAGE TOLERANCE	±1.0%	±1.0%
LINE REGULATION	±0.5%	±0.5%
LOAD REGULATION	±1.0%	±1.0%
SETUP, RISE, HOLD UP TIME	800ms, 150ms, 18ms / 400VAC	2000ms, 150ms, 16ms / 230VAC at full load
VOLTAGE RANGE	180 ~ 550VAC 254 ~ 780VDC	
FREQUENCY RANGE	47 ~ 63Hz	
EFFICIENCY (Typ.)	92%	93%
AC CURRENT	1.6A / 400VAC 4A / 230VAC	
INRUSH CURRENT (Typ.)	COLD START 50A	
LEAKAGE CURRENT	≤ 3.5 mA / 530VAC	
OVERLOAD	105 ~ 130% rated output power	
OVERVOLTAGE	29 ~ 33V	56 ~ 65V
OVERTEMPERATURE	95°C ± 5°C (TSW) detect on heat sink of power switch	
DC OK RELAY CONTACT RATINGS (max.)	60VDC / 0.3A; 30VDC / 1A; 30VAC / 0.5A resistive load	
WORKING TEMP.	-30 ~ +70°C (Refer to output load derating curve)	
WORKING HUMIDITY	20 ~ 95% RH non-condensing	
STORAGE TEMP., HUMIDITY	-40 ~ +85°C; 10 ~ 95% RH	
TEMP. COEFFICIENT	±0.03% / °C (0 ~ 50°C)	
VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60 min. each long X,Y, Z axes	
MOUNTING	Compliance to IEC60068-2-6	
SAFETY STANDARDS	UL508 approved IEC 60950-1 compliant Design refer to GL	
WITHSTAND VOLTAGE	I/P-O/P: 3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC	
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC (25°C; 70% RH)	
EMI CONDUCTION & RADIATION	EN55022 (CISPR22), EN61204-3 Class B	
HARMONIC CURRENT	Compliance to EN61000-3-2,-3	
EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204; EN 55024; EN61000-6-2; (EN50082-2); EN61204-3; heavy industry level; criteria A approved;	
MTBF	112.8K hrs min. MIL-HDBK-217K (25°C)	
DIMENSION	85.5x125.2x128.5mm (WxHxD)	
PACKING	1.7Kg; 8pcs / 14.6Kg / 0.9CUFT	

All parameters NOT specially mentioned are measured at 400VAC input, rated load and 25°C of ambient temperature.

Mechanical Specification

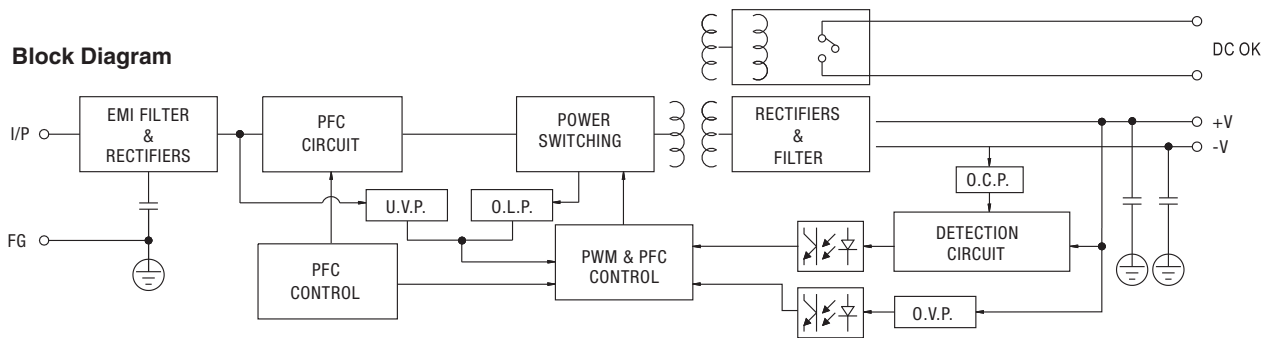


Terminal Pin No. Assignment (TB1) Terminal Pin No. Assignment (TB2)

Pin No.	Assignment
1	FG ⊕
2	AC/L2
3	AC/L1

Pin No.	Assignment
1,2	DC OUTPUT +V
3,4	DC OUTPUT -V
5,6	Relay Contact

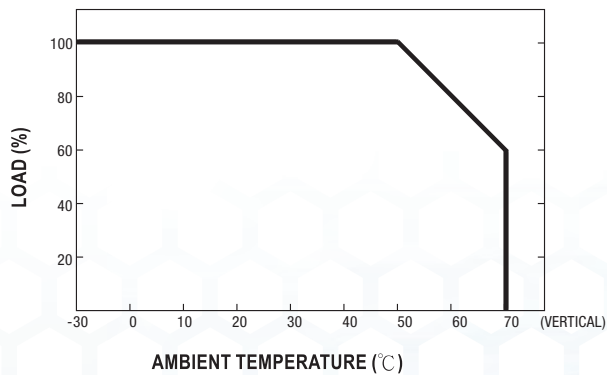
Block Diagram



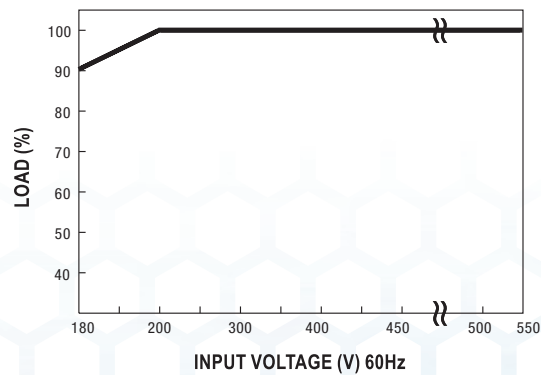
DC OK Relay Contact

Contact Close	PSU turns on / DC OK.
Contact Open	PSU turns off / DC Fail.
Contact Ratings (max.)	30V/1A resistive load.

Derating Curve



Output Derating VS Input Voltage



Note: All dimensions are in millimeters, to convert to inches multiply by 0.03937.