

PSW-120 Series Specifications







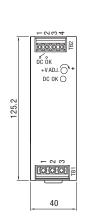


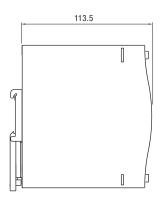
Features:

- \bullet Single and two phase wide input range 180 \sim 550VAC
- Protections: Short Circuit / Overload / Over Voltage / Overtemperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- DIN rail mountable
- UL508 (industrial control equipment) approved
- EN61000-6-2 (EN50082-2) industrial immunity level
- 100% full load burn-in test
- Built-in DC OK relay contact
- 3 year warranty

OUTPUT	Cat. No.	PSW-12012	PSW-12024	PSW-12048	
	DC VOLTAGE	12V	24V	48V	
	RATED CURRENT	10A	5A	2.5A	
	CURRENT RANGE	0 ~ 10A	0 ~ 5A	0 ~ 2.5A	
	RATED POWER	120W	120W	120W	
	RIPPLE & NOISE (max)	120mVp-p	120mVp-p	150mVp-p	
	Ripple & noise are measured at 20MHz of bandwidth by using a 12 twisted pair-wire terminated with a 0.1µF & 47µF parallel capacitor.				
	VOLTAGE ADJ. RANGE	12 ~ 15V	24 ~ 29V	48 ~ 58V	
	VOLTAGE TOLERANCE	±1.5%	±1.0%	±1.0%	
	Tolerance: includes set up tolerance, line regulation and load regulation.				
	LINE REGULATION	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±0.5%	±0.5%	±0.5%	
	SETUP, RISE HOLD UP TIME	2000ms, 70ms, 50ms / 400VAC	2000ms, 70ms, 10ms / 230\	/AC at full load	
INPUT	Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quick may lead to increase of the set up time.				
	VOLTAGE RANGE 180 ~ 550VAC 254 ~ 780VDC				
	FREQUENCY RANGE	47 ~ 63Hz	7. 760720		
	EFFICIENCY (Typ.)	89.5% / 400V	91% / 400V	92% / 400V	
	AC CURRENT	0.55A / 400VAC 1.2A / 230VA		32707 400V	
	INRUSH CURRENT (Typ.)				
PROTECTION	LEAKAGE CURRENT	≤ 3.5 mA / 530VAC			
	ELAMAL CONNENT 5.3.3 IIIA / 330VAC				
	OVERLOAD 105 ~ 130% rated output power				
		Protection type: Constant current limiting, rec	overs automatically after fault condition is	s removed	
	OVERVOLTAGE	16 ~ 18V	31 ~ 37V	60 ~ 67V	
	OVERTEMPERATURE	Protection type: Shut down overvoltage, re-power on to recover $105^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (12V), $110^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (24V) (TSW1) detect on heat sink of power switch transistor;			
		$100^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (48V) (TSW1) detect on heat sink of power diode			
		Protection type: Shut down overvoltage, re-power automatically after temperature goes down			
ENVIRONMENT	DC OK SIGNAL	Relay contact rating (max.): 30V / 1A resistive			
	WORKING TEMP.	-25 ~ +70°C (Refer to output load derating curve)			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
	STORAGE TEMP., HUMIDITY	TY -40 ~ +85°C, 10 ~ 95% RH			
	TEMP. COEFFICIENT				
SAFETY & EMC	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60	o min. each long X,Y, Z axes Mo	ounting clip: Compliance to IEC60068-2	
	SAFETY STANDARDS	UL508 approved			
	IEC60950-1 compliant				
	WITHSTAND VOLTAGE I/P-O/P: 3KVAC I/P-FG:1.5KVAC 0/P-FG:0.5KVAC 0/P-DC 0K:0.5KVAC				
	ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC (25°C; 70% RH)				
		EMI CONDUCTION & RADIATION Compliance to EN55011 (CISPR11), EN55022 (CISPR22), EN61204-3 Class B			
	EMS IMMUNITY	Compliance to EN50011 (Glorini), EN50022 (Glorinaz), EN61204-3; EN61000-6-2; (EN50082-2),			
	EIVIS IIVIIVIOINI I I	heavy industry level; criteria A,			
OTLIEBO		The power supply is considered a component which will installed into a final equipment. The final equipment must be			
OTHERS		re-confirmed that it still meets EMC directives			
	MTBF	268K hrs min. MIL-HDBK-217K	(25°C)		
	DIMENSION	40x125.2x113.5mm (WxHxD)			
	PACKING	0.65Kg; 20pcs / 14Kg / 1.16CUFT			

Mechanical Specification



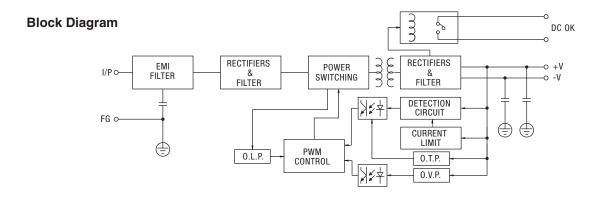


Terminal Pin No. Assignment (TB1)

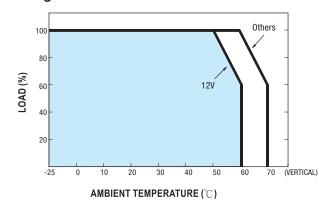
Pin No.	Assignment
1	FG ⊕
2	AC/L2
3	AC/L1

B1) Terminal Pin No. Assignment (TB2)

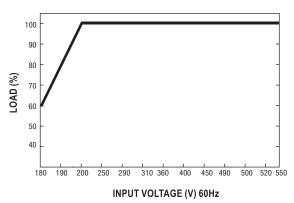
Pin No.	Assignment
1,2	Relay Contact
3	DC OUTPUT -V
4	DC OUTPUT+V



Derating Curve



Static Characteristics



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