

PS-C120 Series Specifications









Features:

- High efficiency 91% and low power dissipation
- 150% peak load capability
- Built-in active PFC function, PF>0.93
- 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.	PS-C12012	PS-C12024	PS-C12048	
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	
PEAK CURRENT	15A	7.5A	3.75A	
		7.JA	3.73A	
PEAK POWER	180W (3 sec.)			
	3 seconds max., please refer to pe			
RIPPLE & NOISE (max)	100mVp-p	100mVp-p	120mVp-p	
	Ripple & noise are measured at 20MHz of bandv	vidth by using a 12 twisted pair-wire tern	ninated with a 0.1µF & 47µF parallel capacit	
VOLTAGE ADJ. RANGE	12 ~ 14V	24 ~ 28V	48 ~ 55V	
VOLTAGE TOLERANCE	±1.0%	±1.0%	±1.0%	
VOEITIGE TOLLIN WOL	Tolerance: includes set up tolerance, line regul		=1.070	
LINE DECLILATION			1 . O E0/	
LINE REGULATION	±0.5%	±0.5%	±0.5%	
LOAD REGULATION	±1.0%	±1.0%	±1.0%	
SETUP, RISE TIME	1500ms, 60ms / 230VAC 3000	ms, 60ms / 115VAC at full loa	ad	
HOLD UP TIME (Typ.)	20ms / 230VAC 20m	is / 115VAC at full load		
VOLTAGE RANGE				
VULIAUE NANUE		~ 370VDC		
	Derating may be needed under low input voltages, please check the derating curve for more detail			
FREQUENCY RANGE	47 ~ 63Hz			
POWER FACTOR (Typ.)	0.93 / 230VAC	at full load		
EFFICIENCY (Typ.)	89%	91%	90.50%	
AC CURRENT (Typ.)	1.4A / 115VAC 0.7A / 230VAC	1 - 1 - 1	1	
(31 /				
INRUSH CURRENT (Typ.)				
LEAKAGE CURRENT	≤ 1 mA / 240VAC			
OVERLOAD	Normally works within 110 ~ 1509	% rated output power for mor	e than 3 seconds and then shu	
	down overvoltage			
	≥ 150% rated power, constant cur	rent limiting with auto-recove	ery within 3	
	seconds and shut down overvoltage		,	
OVERVOLTAGE	14 ~ 17V	29 ~ 33V	56 ~ 65V	
UVERVULIAGE		The state of the s	30 ~ 03V	
	Protection type: Shut down overvoltage, re-por			
OVERTEMPERATURE	$95^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (TSW: detect on heat si			
	Protection type: Shut down overvoltage, re-por	wer automatically after temperature go	es down	
DC OK RELAY CONTACT RATINGS (max.)	60VDC / 0.3A 30VDC / 1A	30VAC / 0.5A RESISTIVE LO	AD	
WORKING TEMP.	-25 ~ +70°C (Refer to output load	derating curve)		
WORKING ILIVIF.	•	,		
	Installation clearances: 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded			
	permanently with full power. In case the adjac	ent device is a heat source, 15mm clea	arance is recommended	
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 pach long V V 7 avas		
		IIIII. each long x, t, z axes		
MOUNTING	Compliance to IEC60068-2-6			
SAFETY STANDARDS	UL508			
	EN60950-1 compliant			
WITHCTAND VOLTACE	· ·			
WITHSTAND VOLTAGE	I/P-O/P: 3KVAC			
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: ≥100M Oh			
EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22)	Class B		
HARMONIC CURRENT	Compliance to EN61000-3-2,-3			
EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204; EN55024; EN61000-6-2; (EN50082-2);			
EMO MINUMITI	EN61204-3; heavy industry level; criteria A, SEMI F47, GL approved			
	The power supply is considered a component which will installed into a final equipment. The final equipment must be re-confirm that it still meets EMC directives.			
MTBF	289.9K hrs min. MIL-HDBK-217k	((25°C)		
DIMENSION	40x125.2x113.5mm (WxHxD)			
	, , ,	т		
PACKING	0.67Kg; 20pcs / 14.4Kg / 1.16CUF			
	, , ,		and 25°C of ambient temperature.	

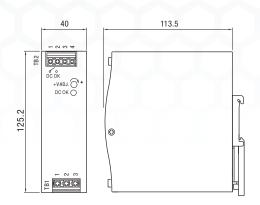


Mechanical Specification

Pin No.	Assignment
1	FG ⊕
2	AC/N
3	AC/L

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

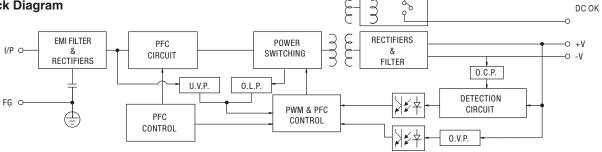
Pin No.	Assignment	
1,2	Relay Contact	
3	DC OUTPUT -V	
4	DC OUTPUT+V	



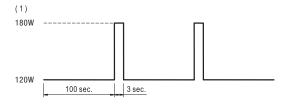
DC OK Relay Contact

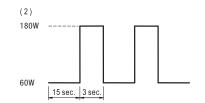
Contact Close	When the output voltage reaches the adjusted output voltage.
Contact Open	When the output voltage drop below 90% output voltage.
Contact Ratings (max.)	30V/1A resistive load

Block Diagram

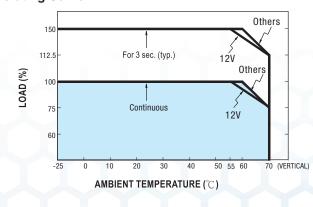


Peak Loading

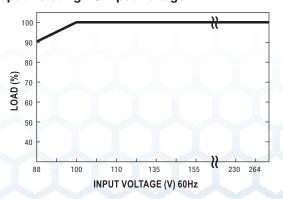




Derating Curve



Output Derating VS Input Voltage



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

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