

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

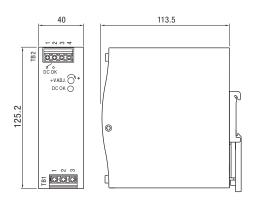
OUTPUT	Cat. No.	PS-C12012	PS-C12024	PS-C12048
	DC VOLTAGE	12V	24V	48V
	RATED CURRENT	10A	5A	2.5A
	CURRENT RANGE	0 ~ 10A	0 ~ 5A	0 ~ 2.5A
	RATED POWER	120W	120W	120W
	PEAK CURRENT	15A	7.5A	3.75A
	PEAK POWER	180W (3 sec.)		
		3 seconds max., please refer to pea	k loading curves	
	RIPPLE & NOISE (max)	100mVp-p	100mVp-p	120mVp-p
		Ripple & noise are measured at 20MHz of bandwic	Ith by using a 12 twisted pair-wire terminated	with a 0.1µF & 47µF parallel capacito
	VOLTAGE ADJ. RANGE	12 ~ 14V	24 ~ 28V	48 ~ 55V
	VOLTAGE TOLERANCE	±1.0%	±1.0%	±1.0%
	VOLIAGE TOLENANGE			±1.070
	LINE DECLI ATION	Tolerance: includes set up tolerance, line regulat	•	0.50/
	LINE REGULATION	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%
	SETUP, RISE TIME		s, 60ms / 115VAC at full load	
NPUT	HOLD UP TIME (Typ.)	20ms / 230VAC 20ms	/ 115VAC at full load	
	VOLTAGE RANGE	88 ~ 264VAC 124 ~	· 370VDC	
	VOLIAGE NAINGE			
		Derating may be needed under low input voltage	es, please check the derating curve for mor	e detail
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	0.93 / 230VAC 0.96 / 115VAC a	t full load	
	EFFICIENCY (Typ.)	89%	91%	90.50%
	AC CURRENT (Typ.)	1.4A / 115VAC 0.7A / 230VAC		
	INRUSH CURRENT (Typ.)	35A / 115VAC 70A / 230VAC		
DOTECTION	(31)			
PROTECTION	LEAKAGE CURRENT	≤ 1 mA / 240VAC		
	OVERLOAD	Normally works within 110 ~ 150%	rated output power for more tha	n 3 seconds and then shut
		down overvoltage		
		> 1500/ roted newer constant ourre	nt limiting with outo recovery wi	thin 2
		≥ 150% rated power, constant curre		thin 3
		seconds and shut down overvoltage	after 3 seconds	
	OVERVOLTAGE			thin 3
	OVERVOLTAGE	seconds and shut down overvoltage	after 3 seconds 29 ~ 33V	
	OVERVOLTAGE OVERTEMPERATURE	seconds and shut down overvoltage $\mid 14 \sim 17V$ Protection type: Shut down overvoltage, re-power section type is the second section of the section of the section of the second section of the	after 3 seconds 29 ~ 33V er on to recover	
		seconds and shut down overvoltage $14\sim17V$ Protection type: Shut down overvoltage, re-pow $95^{\circ}\text{C}\pm5^{\circ}\text{C}$ (TSW: detect on heat sin	after 3 seconds 29 ~ 33V er on to recover k of power switch)	56 ~ 65V
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ENVIRONMENT SAFETY & EMC	OVERTEMPERATURE DC OK RELAY CONTACT RATINGS (max.) WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION MOUNTING SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMI CONDUCTION & RADIATION	seconds and shut down overvoltage 14 \sim 17V Protection type: Shut down overvoltage, re-pown 95°C \pm 5°C (TSW: detect on heat sin Protection type: Shut down overvoltage, re-pown 60VDC / 0.3A 30VDC / 1A -25 \sim +70°C (Refer to output load d Installation clearances: 40mm on top, 20mm on permanently with full power. In case the adjacer 20 \sim 95% RH non-condensing -40 \sim +85°C, 10 \sim 95% RH \pm 0.03% / °C (0 \sim 50°C) 10 \sim 500Hz, 2G 10min./1cycle, 60 r Compliance to IEC60068-2-6 UL508 EN60950-1 compliant I/P-0/P: 3KVAC I/P-FG: 1.5KVAC I/P-O/P, I/P-FG, 0/P-FG: \geq 100M Ohr Compliance to EN55022 (CISPR22) (Compliance to EN61000-3-2,-3 Compliance to EN61000-4-2,3,4,5,6	after 3 seconds 29 ~ 33V er on to recover k of power switch) er automatically after temperature goes dow 30VAC / 0.5A RESISTIVE LOAD erating curve) the bottom, 5mm on the left and right side at device is a heat source, 15mm clearance nin. each long X,Y, Z axes 0/P-FG: 0.5KVAC	see recommended when loaded is recommended
	OVERTEMPERATURE DC OK RELAY CONTACT RATINGS (max.) WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION MOUNTING SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT	seconds and shut down overvoltage $14 \sim 17V$ Protection type: Shut down overvoltage, re-pown $95^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (TSW: detect on heat sin Protection type: Shut down overvoltage, re-pown $60VDC / 0.3A$ $30VDC / 1A$ $-25 \sim +70^{\circ}\text{C}$ (Refer to output load d Installation clearances: 40mm on top, 20mm on permanently with full power. In case the adjacer $20 \sim 95\%$ RH non-condensing $-40 \sim +85^{\circ}\text{C}$, $10 \sim 95\%$ RH $\pm 0.03\% / ^{\circ}\text{C}$ (0 $\sim 50^{\circ}\text{C}$) $10 \sim 500\text{Hz}$, 26G 10min./1cycle, 60 r Compliance to IEC60068-2-6 UL508 EN60950-1 compliant $1/P-O/P$: 3KVAC $1/P-FG$: 1.5KVAC $1/P-O/P$: 1.5KVAC $1/P-O/P$: 1.5KVAC $1/P-O/P$: 1.5KVAC	after 3 seconds 29 ~ 33V er on to recover k of power switch) er automatically after temperature goes dow 30VAC / 0.5A RESISTIVE LOAD erating curve) the bottom, 5mm on the left and right side at device is a heat source, 15mm clearance nin. each long X,Y, Z axes 0/P-FG: 0.5KVAC	see recommended when loaded is recommended
SAFETY & EMC	OVERTEMPERATURE DC OK RELAY CONTACT RATINGS (max.) WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION MOUNTING SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT	seconds and shut down overvoltage 14 \sim 17V Protection type: Shut down overvoltage, re-pown 95°C \pm 5°C (TSW: detect on heat sin Protection type: Shut down overvoltage, re-pown 60VDC / 0.3A 30VDC / 1A -25 \sim +70°C (Refer to output load d Installation clearances: 40mm on top, 20mm on permanently with full power. In case the adjacer 20 \sim 95% RH non-condensing -40 \sim +85°C, 10 \sim 95% RH \pm 0.03% / °C (0 \sim 50°C) 10 \sim 500Hz, 2G 10min./1cycle, 60 r Compliance to IEC60068-2-6 UL508 EN60950-1 compliant I/P-0/P: 3KVAC I/P-FG: 1.5KVAC I/P-O/P: 3KVAC I/P-G: 2100M Ohr Compliance to EN55022 (CISPR22) (Compliance to EN61000-3-2, -3 Compliance to EN61000-4-2, 3, 4, 5, 6 EN61204-3; heavy industry level; cr The power supply is considered a component which is the simple supply is considered a component which is the simple supply is considered a component which is the simple supply is considered a component which is the simple supply is considered a component which is the simple supply is considered a component which is the simple supply is considered a component which is the simple supply is considered a component which is the simple supplement the supplement is considered a component which is the simplement is considered and component is considered and component which is the simplement is considered and component which is the simplement is con	after 3 seconds 29 ~ 33V er on to recover k of power switch) er automatically after temperature goes dow 30VAC / 0.5A RESISTIVE LOAD erating curve) the bottom, 5mm on the left and right side at device is a heat source, 15mm clearance nin. each long X,Y, Z axes 0/P-FG: 0.5KVAC	are recommended when loaded is recommended 3: 0.5KVAC 61000-6-2; (EN50082-2);
SAFETY & EMC	OVERTEMPERATURE DC OK RELAY CONTACT RATINGS (max.) WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION MOUNTING SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT	seconds and shut down overvoltage 14 \sim 17V Protection type: Shut down overvoltage, re-powe 95°C \pm 5°C (TSW: detect on heat sin Protection type: Shut down overvoltage, re-powe 60VDC / 0.3A 30VDC / 1A -25 \sim +70°C (Refer to output load destablished installation clearances: 40mm on top, 20mm on permanently with full power. In case the adjacer 20 \sim 95% RH non-condensing -40 \sim +85°C, 10 \sim 95% RH \pm 0.03% / °C (0 \sim 50°C) 10 \sim 500Hz, 2G 10min./1cycle, 60 or Compliance to IEC60068-2-6 UL508 EN60950-1 compliant I/P-0/P; 3KVAC I/P-FG: 1.5KVAC I/P-O/P, I/P-FG, 0/P-FG: \geq 100M Ohr Compliance to EN55022 (CISPR22) (Compliance to EN61000-3-2,-3 Compliance to EN61000-4-2,3,4,5,6 EN61204-3; heavy industry level; cr	after 3 seconds 29 ~ 33V er on to recover k of power switch) er automatically after temperature goes dow 30VAC / 0.5A RESISTIVE LOAD erating curve) the bottom, 5mm on the left and right side at device is a heat source, 15mm clearance nin. each long X,Y, Z axes 0/P-FG: 0.5KVAC	are recommended when loaded is recommended 3: 0.5KVAC 61000-6-2; (EN50082-2);
SAFETY & EMC	OVERTEMPERATURE DC OK RELAY CONTACT RATINGS (max.) WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION MOUNTING SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT EMS IMMUNITY	seconds and shut down overvoltage 14 ~ 17V Protection type: Shut down overvoltage, re-powe 95°C ± 5°C (TSW: detect on heat sin Protection type: Shut down overvoltage, re-powe 60VDC / 0.3A 30VDC / 1A -25 ~ +70°C (Refer to output load d Installation clearances: 40mm on top, 20mm on permanently with full power. In case the adjacer 20 ~ 95% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH ±0.03% / °C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, 60 r Compliance to IEC60068-2-6 UL508 EN60950-1 compliant I/P-O/P: 3KVAC I/P-FG: ≥100M Ohr Compliance to EN55022 (CISPR22) (Compliance to EN61000-3-2,-3 Compliance to EN61000-4-2,3,4,5,6 EN61204-3; heavy industry level; cr The power supply is considered a component withat it still meets EMC directives.	after 3 seconds 29 ~ 33V er on to recover k of power switch) er automatically after temperature goes dow 30VAC / 0.5A RESISTIVE LOAD erating curve) the bottom, 5mm on the left and right side at device is a heat source, 15mm clearance nin. each long X,Y, Z axes 0/P-FG: 0.5KVAC	are recommended when loaded is recommended 3: 0.5KVAC 61000-6-2; (EN50082-2);
SAFETY & EMC	OVERTEMPERATURE DC OK RELAY CONTACT RATINGS (max.) WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION MOUNTING SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT EMS IMMUNITY	seconds and shut down overvoltage 14 \sim 17V Protection type: Shut down overvoltage, re-pown 95°C \pm 5°C (TSW: detect on heat sin Protection type: Shut down overvoltage, re-pown 60VDC / 0.3A 30VDC / 1A -25 \sim +70°C (Refer to output load d Installation clearances: 40mm on top, 20mm on permanently with full power. In case the adjacer 20 \sim 95% RH non-condensing -40 \sim +85°C, 10 \sim 95% RH \pm 0.03% / °C (0 \sim 50°C) 10 \sim 500Hz, 2G 10min./1cycle, 60 r Compliance to IEC60068-2-6 UL508 EN60950-1 compliant I/P-O/P: 3KVAC I/P-FG: 1.5KVAC I/P-O/P; 3KVAC I/P-FG: \geq 100M Ohr Compliance to EN55022 (CISPR22) (Compliance to EN61000-3-2,-3 Compliance to EN61000-4-2,3,4,5,6 EN61204-3; heavy industry level; cr The power supply is considered a component withat it still meets EMC directives.	after 3 seconds 29 ~ 33V er on to recover k of power switch) er automatically after temperature goes dow 30VAC / 0.5A RESISTIVE LOAD erating curve) the bottom, 5mm on the left and right side at device is a heat source, 15mm clearance nin. each long X,Y, Z axes 0/P-FG: 0.5KVAC	are recommended when loaded is recommended 3: 0.5KVAC 61000-6-2; (EN50082-2);
	OVERTEMPERATURE DC OK RELAY CONTACT RATINGS (max.) WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION MOUNTING SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT EMS IMMUNITY MTBF DIMENSION	seconds and shut down overvoltage 14 ~ 17V Protection type: Shut down overvoltage, re-pown 95°C ± 5°C (TSW: detect on heat sin Protection type: Shut down overvoltage, re-pown 60VDC / 0.3A 30VDC / 1A -25 ~ +70°C (Refer to output load d Installation clearances: 40mm on top, 20mm on permanently with full power. In case the adjacer 20 ~ 95% RH non-condensing -40 ~ +85°C, 10 ~ 95% RH ±0.03% / °C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, 60 r Compliance to IEC60068-2-6 UL508 UL508 UR9-G, 0/P-FG: ≥100M Ohr Compliance to EN55022 (CISPR22) (Compliance to EN61000-3-2,-3 Compliance to EN61000-4-2,3,4,5,6 EN61204-3; heavy industry level; cr The power supply is considered a component what it still meets EMC directives. 289.9K hrs min. MIL-HDBK-217K 40x125.2x113.5mm (WxHxD)	after 3 seconds 29 ~ 33V er on to recover k of power switch) er automatically after temperature goes dow 30VAC / 0.5A RESISTIVE LOAD erating curve) the bottom, 5mm on the left and right side at device is a heat source, 15mm clearance nin. each long X,Y, Z axes 0/P-FG: 0.5KVAC	are recommended when loaded is recommended 3: 0.5KVAC 61000-6-2; (EN50082-2);
SAFETY & EMC	OVERTEMPERATURE DC OK RELAY CONTACT RATINGS (max.) WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION MOUNTING SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT EMS IMMUNITY	seconds and shut down overvoltage 14 \sim 17V Protection type: Shut down overvoltage, re-pown 95°C \pm 5°C (TSW: detect on heat sin Protection type: Shut down overvoltage, re-pown 60VDC / 0.3A 30VDC / 1A -25 \sim +70°C (Refer to output load d Installation clearances: 40mm on top, 20mm on permanently with full power. In case the adjacer 20 \sim 95% RH non-condensing -40 \sim +85°C, 10 \sim 95% RH \pm 0.03% / °C (0 \sim 50°C) 10 \sim 500Hz, 2G 10min./1cycle, 60 r Compliance to IEC60068-2-6 UL508 EN60950-1 compliant I/P-O/P: 3KVAC I/P-FG: 1.5KVAC I/P-O/P; 3KVAC I/P-FG: \geq 100M Ohr Compliance to EN55022 (CISPR22) (Compliance to EN61000-3-2,-3 Compliance to EN61000-4-2,3,4,5,6 EN61204-3; heavy industry level; cr The power supply is considered a component withat it still meets EMC directives.	after 3 seconds 29 ~ 33V er on to recover k of power switch) er automatically after temperature goes dow 30VAC / 0.5A RESISTIVE LOAD erating curve) the bottom, 5mm on the left and right side at device is a heat source, 15mm clearance nin. each long X,Y, Z axes 0/P-FG: 0.5KVAC 0/P-DC 0kms/500VDC (25°C; 70% RH) Class B 6,8,11; ENV50204; EN55024; EN6 iteria A, SEMI F47, GL approved ich will installed into a final equipment. The	sare recommended when loaded is recommended 3: 0.5KVAC 51000-6-2; (EN50082-2); final equipment must be re-confirment

Mechanical Specification

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

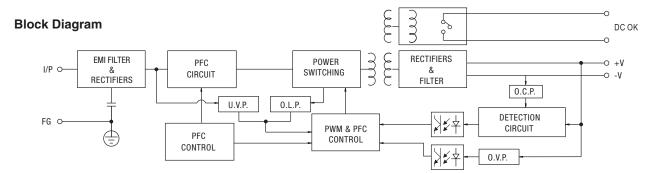
Pin No.	Assignment
1	FG ⊕
2	AC/N
3	AC/L

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

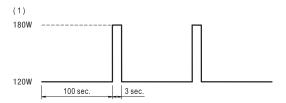


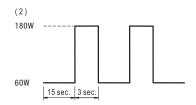
DC OK Relay Contact

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

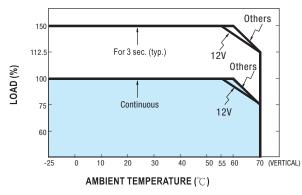


Peak Loading

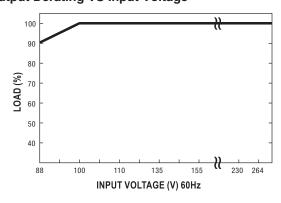




Derating Curve



Output Derating VS Input Voltage



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