

PS-C240 Series Specifications













Features:

- High efficiency 94% 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-C24024	PS-C24048
	DC VOLTAGE	24V	48V
	RATED CURRENT	10A	5A
	CURRENT RANGE	0 ~ 10A	0 ~ 5A
	RATED POWER	240W	240W
	PEAK CURRENT	15A	7.5A
	PEAK POWER	360W (3 sec.)	
		3 seconds max., please refer to peak load	ing curves
	RIPPLE & NOISE (max)	100mVp-p	120mVp-p
			ing a 12 twisted pair-wire terminated with a 0.1µF & 47µF parallel capacito
	VOLTAGE ADJ. RANGE	24 ~ 28V	48 ~ 55V
		=: =*:	±1.0%
	VOLTAGE TOLERANCE	±1.0%	
		Tolerance: includes set up tolerance, line regulation and	
	LINE REGULATION	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%
	SETUP, RISE TIME	1500ms, 60ms / 230VAC 3000ms, 60n	ns / 115VAC at full load
INPUT	HOLD UP TIME (Typ.)	20ms / 230VAC 20ms / 115	/AC at full load
	VOLTAGE RANGE	88 ~ 264VAC 124 ~ 370V	
	VOLIAGE NANGE		
	EDECHENCY DANCE	Derating may be needed under low input voltages, pleas	se cneck the derating curve for more detail
	FREQUENCY RANGE	47 ~ 63Hz	
	POWER FACTOR (Typ.)	0.93 / 230VAC 0.99 / 115VAC at full lo	ad
	EFFICIENCY (Typ.)	94%	
		After 30 minutes of burn-in.	
	AC CURRENT (Typ.)	2.6A / 115VAC 1.3A / 230VAC	
	INRUSH CURRENT (Typ.)	33A / 115VAC 65A / 230VAC	
PROTECTION	LEAKAGE CURRENT	≤ 1 mA / 240VAC	
HOTEOTION	1		
	OVERLOAD	Normally works within 110 ~ 150% rated	output power for more than 3 seconds and then shut
		down overvoltage with auto-recovery	
		≥ 150% rated power, constant current lim	iting with auto-
		recovery within 2 seconds and shut down	overvoltage after 2 seconds
	OVERVOLTAGE	29 ~ 33V	56 ~ 65V
	012.1102.1102	Protection type: Shut down overvoltage with auto-recov	
	OVERTEMPERATURE	$95^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (TSW: detect on heat sink of p	
ENVIRONMENT	OVERTIENT ETIATORIE		
ENVIRONIVIENT		Protection type: Shut down overvoltage, re-power auton	natically after temperature goes down
	DC OK RELAY CONTACT RATINGS (max.)	60VDC / 0.3A 30VDC / 1A 30VAC / (D.5A RESISTIVE LOAD
	WORKING TEMP.	$-25 \sim +70^{\circ}$ C (Refer to output load derating	a curve)
		20 1700 (Horor to output load dorating	
		Installation algoropoos: 40mm on top, 20mm on the bot	
			tom, 5mm on the left and right side are recommended when loaded
	WODKING HIMIDITY	permanently with full power. In case the adjacent device	tom, 5mm on the left and right side are recommended when loaded
	WORKING HUMIDITY	permanently with full power. In case the adjacent device $20\sim95\%\ RH\ non-condensing$	tom, 5mm on the left and right side are recommended when loaded
	STORAGE TEMP., HUMIDITY	permanently with full power. In case the adjacent device $20\sim95\%$ RH non-condensing $-40\sim+85^{\circ}C,10\sim95\%$ RH	tom, 5mm on the left and right side are recommended when loaded
		permanently with full power. In case the adjacent device $20\sim95\%\ RH\ non-condensing$	tom, 5mm on the left and right side are recommended when loaded
	STORAGE TEMP., HUMIDITY	permanently with full power. In case the adjacent device $20\sim95\%$ RH non-condensing $-40\sim+85^{\circ}C,10\sim95\%$ RH	tom, 5mm on the left and right side are recommended when loaded is a heat source, 15mm clearance is recommended.
SAFETY & EMC	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	permanently with full power. In case the adjacent device $20\sim95\%$ RH non-condensing $-40\sim+85^{\circ}\text{C},\ 10\sim95\%$ RH $\pm0.03\%$ / $^{\circ}\text{C}$ (0 $\sim50^{\circ}\text{C}$) $10\sim500\text{Hz},\ 26\ 10\text{min./1cycle},\ 60\ \text{min. ea}$	tom, 5mm on the left and right side are recommended when loaded is a heat source, 15mm clearance is recommended.
SAFETY & EMC	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION MOUNTING	permanently with full power. In case the adjacent device $20\sim95\%$ RH non-condensing $-40\sim+85^{\circ}\text{C}$, $10\sim95\%$ RH $\pm0.03\%$ / $^{\circ}\text{C}$ (0 $\sim50^{\circ}\text{C}$) $10\sim500\text{Hz}$, 26 10min./1cycle , 60 min. ex Compliance to IEC60068-2-6	tom, 5mm on the left and right side are recommended when loaded is a heat source, 15mm clearance is recommended.
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SAFETY & EMC	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION MOUNTING SAFETY STANDARDS	permanently with full power. In case the adjacent device $20\sim95\%$ RH non-condensing $-40\sim+85^{\circ}\text{C}$, $10\sim95\%$ RH $\pm0.03\%$ / $^{\circ}\text{C}$ ($0\sim50^{\circ}\text{C}$) $10\sim500\text{Hz}$, $26~10\text{min./1}$ cycle, $60~\text{min. ex}$ Compliance to IEC60068-2-6 UL508 EN60950-1 compliant	tom, 5mm on the left and right side are recommended when loaded is a heat source, 15mm clearance is recommended. ach long X,Y, Z axes
SAFETY & EMC	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION MOUNTING SAFETY STANDARDS WITHSTAND VOLTAGE	permanently with full power. In case the adjacent device $20 \sim 95\%$ RH non-condensing $-40 \sim +85^{\circ}\text{C}$, $10 \sim 95\%$ RH $\pm 0.03\%$ / $^{\circ}\text{C}$ (0 $\sim 50^{\circ}\text{C}$) $10 \sim 500\text{Hz}$, 2G 10min./1cycle , $60\text{ min. excompliance}$ to IEC60068-2-6 UL508 EN60950-1 compliant I/P-O/P: 3KVAC I/P-FG: 1.5KVAC 0/P-	tom, 5mm on the left and right side are recommended when loaded is a heat source, 15mm clearance is recommended. ach long X,Y, Z axes -FG: 0.5KVAC
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SAFETY & EMC	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION MOUNTING SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	permanently with full power. In case the adjacent device $20 \sim 95\%$ RH non-condensing $-40 \sim +85^{\circ}\text{C}$, $10 \sim 95\%$ RH $\pm 0.03\%$ / $^{\circ}\text{C}$ (0 $\sim 50^{\circ}\text{C}$) $10 \sim 500\text{Hz}$, 2G 10min./1cycle , $60\text{ min. excompliance}$ to IEC60068-2-6 UL508 EN60950-1 compliant I/P-0/P: 3KVAC I/P-FG: 1.5KVAC 0/P-I/P-0/P, I/P-FG, 0/P-FG: $\geq 100\text{M}$ 0 hms / 5	tom, 5mm on the left and right side are recommended when loaded is a heat source, 15mm clearance is recommended. ach long X,Y, Z axes -FG: 0.5KVAC
SAFETY & EMC	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION MOUNTING SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMI CONDUCTION & RADIATION	permanently with full power. In case the adjacent device $20 \sim 95\%$ RH non-condensing $-40 \sim +85^{\circ}\text{C}$, $10 \sim 95\%$ RH $\pm 0.03\%$ / $^{\circ}\text{C}$ ($0 \sim 50^{\circ}\text{C}$) $10 \sim 500\text{Hz}$, 2G 10min./1cycle , $60\text{ min. excompliance}$ to IEC60068-2-6 UL508 EN60950-1 compliant I/P-0/P: 3KVAC I/P-FG: 1.5KVAC 0/P-I/P-0/P; I/P-FG, 0/P-FG: $\geq 100\text{M}$ 0 mms / 5 Compliance to EN55022 (CISPR22) Class Compliance to EN61000-3-2,-3	tom, 5mm on the left and right side are recommended when loaded is a heat source, 15mm clearance is recommended. ach long X,Y, Z axes -FG: 0.5KVAC
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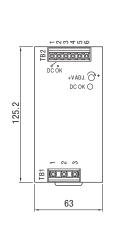
Mechanical Specification

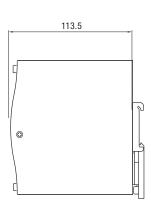
Terminal Pin No. Assignment (TB1)

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

Terminal Pin No. Assignment (TB2)

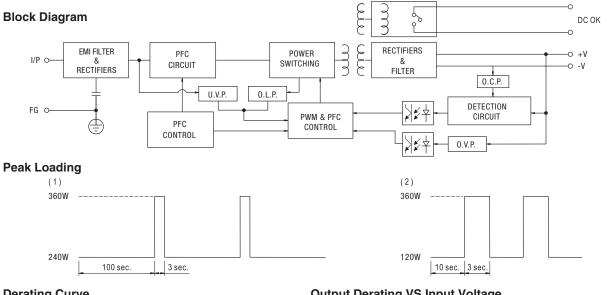
Pin No.	Assignment
1,2	Relay Contact
3,4	DC OUTPUT +V
5,6	DC OUTPUT -V





DC OK Relay Contact

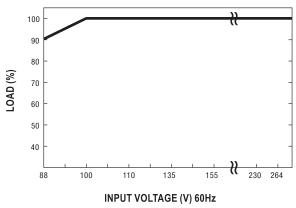
Contact Close	When the output voltage reaches the adjusted output voltage.
Contact Open	When the output voltage drop below 90% output voltage.
Contact Ratings (max.)	30V/1A resistive load





150 For typ. 3sec. 112.5 LOAD (%) 100 Continuous 75 60 -25 10 20 60 70 (VERTICAL) AMBIENT TEMPERATURE (°C)

Output Derating VS Input Voltage



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