

High Efficiency Compact Housing Power Supply

This high performance single output compact DIN rail PS-C Series, with up-to-date circuit design, possess up to 94% of high efficiency and works within 110 \sim 150% rated output power for up to 3 seconds.

With built-in active PFC function, PS-C Series is a full range AC input switching power supply that fulfills the requirement of EN61000-3-2 for harmonic current. The compact design helps save the precious space on the rail and also makes it up to 50% smaller in size compare to its predecessor model PS-Series. Meanwhile, PS-C also have 5~9% higher efficiency than corresponding models of the PS-Series, which response to the trend of green power with energy saving concept.

Other standard functions include DC OK relay contact, on panel LED indicator, and protection for short-circuit, overload (constant current limiting, shut down if over 3 seconds), over voltage, and over temperature. To fulfill the requirements of marine and semi-conductor related usage, PS-C Series also complies with GL and SEMI F47 norms in addition to UL, CUL and CE certificates. Suitable applications are factory automation, semi-conductor fabrication equipment, marine related installation, and electro-mechanical applications.

- Input voltage range:
- AC inrush current (typical):Cold start:
- DC adjustment range (typical):
- Overload protection (typical):
- Overvoltage protection (typical):
- Over temperature protection:
- Withstand voltage:
- Working temperature:
- Safety standards:
- EMC standards:

88-264V AC: 124-370V DC 65A at 230V AC (PSC-240) 12V: 12-14V, 24V: 24-28V, 48V: 48-55V, 110%-150% rated output power 14-17V for 12V model (PSW-120), 29-33V for 24V model 56-65V for 48V model $95^{\circ}C \pm 5^{\circ}C$ (PSC-120/240); $105^{\circ}C \pm 5^{\circ}C$ I/P-0/P:3KV AC, I/P-FG:1.5KV AC, 0/P-FG:0.5KV AC, -25 to +70°C (-4° to +158°F), refer to output derating curve UL508; EN60950-1 compliant Compliance to EN55022 class B, EN61000-4-2.3,4,5,6,8,11, ENV50204, EN61000-6-2, EN61204-3, heavy Industry level, SEMI F47, GL MIL-HDBK-217K

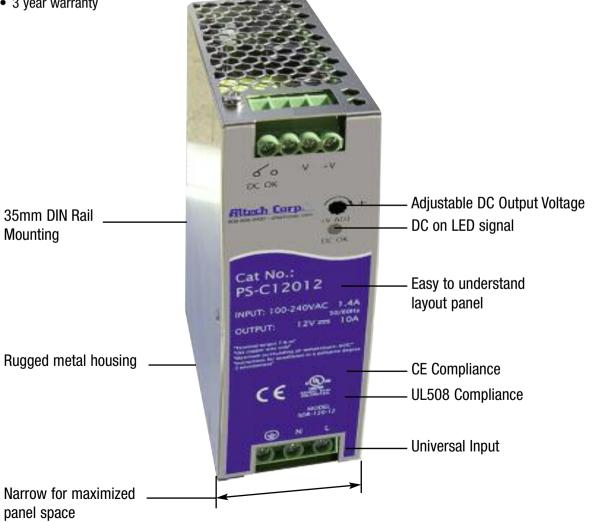
• Military standard:

PS-C Series



Features:

- High efficiency up to 94% and low power dissipation
- Universal AC Input / Full Range
- 150% peak load capability
- Built-in active PFC function, PF>0.93
- Protections: Short circuit / Overload / Overvoltage / Over temperature
- Cooling by free air convection
- Din rail mountable
- · LED indicator for power on
- UL 508 (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



120-480W Single Phase

COMPACT SIZE POWER SUPPLIES



120W Single Output DIN Rail Power Supply

Cat. No.	Output V DC A	Tol. %	Ripple & Noise	Efficiency	NOTES
PS-C12012	12V DC 10A	±1%	100 mVp-p	89%	
PS-C12024	24V DC 5A	±1%	100 mVp-p	91%	
PS-C12048	48V DC 2.5A	±1%	120 mVp-p	91%	



240W Single Output DIN Rail Power Supply

Cat. No.	Output V DC A	Tol. %	Ripple & Noise	Efficiency	NOTES
PS-C24024	24V DC 10A	±1%	100 mVp-р	94%	
PS-C24048	48V DC 5A	±1%	120 mVp-p	94%	



480W Single Output DIN Rail Power Supply

Cat. No.	Output V DC A	Tol. %	Ripple & Noise	Efficiency	NOTES
PS-C48024	24V DC 20A	±1%	100 mVp-p	94%	
PS-C48048	48V DC 10A	±1%	120 mVp-p	94%	



480W Single Output DIN Rail Power Supply

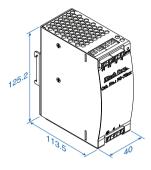
with PFC and Parallel Function (1+7)

Cat. No.	Output V DC A	Tol. %	Ripple & Noise	Efficiency	NOTES
PS-C480P24	24V DC 20A	±1%	100 mVp-р	94%	
PS-C480P48	48V DC 10A	±1%	120 mVp-p	94%	

PARALLEL

SPECIFICATIONS

PS-C120 Series



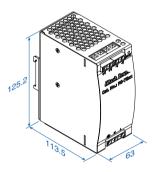
Terminal Pin. No Assign. (TB1)				
Pin No.	Assignment			
1	FG⊜			
2	AC/N			
3	AC/L			

Terminal Pin. No Assign. (TB2)		
Pin No. Assignment		
1,2	Relay Contact	
3	DC OUTPUT -V	
4	DC OUTPUT +V	

Universal Input: 88-264V AC, 124-370V DC full range, 1.4A/115V AC, 0.7A/230V AC Connection: Input - 3 poles, Output - 4 poles screw terminal

Size (WxHxD): 40x125.2x113.5mm (1.57x4.93x4.47 inches) Packaging: 1/box; 1.48lbs / 0.67Kg

PS-C240 Series



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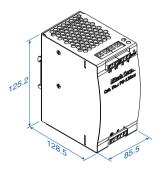
Assignment
FG⊕
AC/N
AC/L

Iermina	Il Pin. No Assign. (TB2)
Pin No.	Assignment
1,2	Relay Contact
3,4	DC OUTPUT -V
5,6	DC OUTPUT +V

Switch select Input: 88-264V AC, 124-370V DC range, 2.6A/115V AC, 1.3A/230V AC

Connection: Input - 3 poles, Output – 6 poles screw terminal Size (WxHxD): 63x125.2x113.5mm (2.48x4.93x4.47 inches) Packaging: 1/box; 2.27lbs / 1.03Kg

PS-C480 Series



Terminal		(TB1)

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

For Parallel Model Terminal Pin, No Assign, (TB1)

		<u> </u>	· ·	
Pin No.	Assignment			
1	FG 🖶			
2	AC/N			
3	AC/L			

Terminal Pin. No Assign. (TB2)

Pin No.	Assignment	
1,2	DC OUTPUT +V	
3,4	DC OUTPUT -V	
5,6	Relay Contact	
7,8	NC	

For Parallel Model

Terminal Pin. No Assign. (TE		
Pin No.	Assignment	
1,2	DC OUTPUT +V	
3,4	DC OUTPUT -V	
5,6	Relay Contact	
7	P+ (current share)*	
8	P- (current share)*	
+ O I		

* Only parallel function.

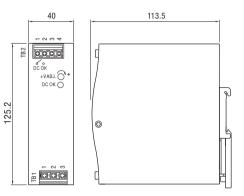
Universal Input: 90-264V AC, 127-370V DC full range, 5A/115V AC, 2.5A/230V AC Connection: Input - 3 poles, Output – 12 poles screw terminal Size (WxHxD): 85.5x125.2x128.5mm (3.37x4.93x5.06 inches) Packaging: 1/box; 3.53lbs / 1.6Kg

	PS-C120 S		Features: • High efficiency 91% and lo • 150% peak load capability • Built-in active PFC function	
	Specification		 Protections: Short Circuit / Overtemperature Cooling by free air convect DIN rail mountable 	Overload / Over Voltage /
61 S			 UL 508 (industrial control e EN61000-6-2 (EN50082-2) Built-in DC OK relay contac 100% full load burn-in test 3 year warranty 	industrial immunity level
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 refe		
	RIPPLE & NOISE (max)	100mVp-p	100mVp-p	120mVp-p
			of bandwidth by using a 12 twisted pair-wire terr	
	VOLTAGE ADJ. RANGE	12 ~ 14V	24 ~ 28V	48 ~ 55V
	VOLTAGE TOLERANCE	±1.0%	±1.0%	±1.0%
		Tolerance: includes set up tolerance,		
	LINE REGULATION	±0.5% ±1.0%	±0.5% ±1.0%	±0.5% ±1.0%
	LOAD REGULATION SETUP, RISE TIME	1500ms, 60ms / 230VAC	3000ms, 60ms / 115VAC at full loa	
INPUT	HOLD UP TIME (Typ.)	20ms / 230VAC	20ms / 115VAC at full load	10
	VOLTAGE RANGE	88 ~ 264VAC	124 ~ 370VDC	
	VOLIAGE RANGE		nput voltages, please check the derating curve f	or more detail
	FREQUENCY RANGE	$47 \sim 63$ Hz	iput voltages, please check the defailing curve i	
	POWER FACTOR (Typ.)		15VAC at full load	
	EFFICIENCY (Typ.)	89%	91%	90.50%
	AC CURRENT (Typ.)	1.4A / 115VAC 0.7A / 2		1
	INRUSH CURRENT (Typ.)	35A / 115VAC 70A / 23		
PROTECTION	LEAKAGE CURRENT	\leq 1 mA / 240VAC		
	OVERLOAD	Normally works within 110	~ 150% rated output power for mor	e than 3 seconds and then shut
		down overvoltage		
		≥ 150% rated power, consta	ant current limiting with auto-recove	ery within 3
		•		ry within 3
	OVERVOLTAGE	≥ 150% rated power, consta		ry within 3 56 ~ 65V
		≥ 150% rated power, consta seconds and shut down ove 14 ~ 17V Protection type: Shut down overvoltag	ervoltage after 3 seconds 29 ~ 33V ge, re-power on to recover	
	OVERVOLTAGE OVERTEMPERATURE	≥ 150% rated power, consta seconds and shut down over 14 ~ 17V Protection type: Shut down overvoltag 95°C \pm 5°C (TSW: detect on	ervoltage after 3 seconds 29 ~ 33V ge, re-power on to recover heat sink of power switch)	56 ~ 65V
ENVIRONMENT	OVERTEMPERATURE	≥ 150% rated power, consta seconds and shut down over 14 ~ 17V Protection type: Shut down overvoltag 95°C \pm 5°C (TSW: detect on Protection type: Shut down overvoltag	ervoltage after 3 seconds 29 ~ 33V ge, re-power on to recover heat sink of power switch) ge, re-power automatically after temperature go	56 ~ 65V
ENVIRONMENT	OVERTEMPERATURE DC OK RELAY CONTACT RATINGS (max.)	$\geq 150\% \text{ rated power, consta} \\ \text{seconds and shut down over} \\ 14 \sim 17V \\ \text{Protection type: Shut down overvoltag} \\ 95^{\circ}\text{C} \pm 5^{\circ}\text{C} \text{ (TSW: detect on Protection type: Shut down overvoltag} \\ 60\text{VDC} / 0.3\text{A} 30\text{VDC} / 1 \\ \end{array}$	ervoltage after 3 seconds 29 ~ 33V ge, re-power on to recover heat sink of power switch) ge, re-power automatically after temperature go A 30VAC / 0.5A RESISTIVE LC	56 ~ 65V
ENVIRONMENT	OVERTEMPERATURE	≥ 150% rated power, consta seconds and shut down over 14 ~ 17V Protection type: Shut down overvoltag 95°C \pm 5°C (TSW: detect on Protection type: Shut down overvoltag 60VDC / 0.3A 30VDC / 1 -25 ~ +70°C (Refer to output	ervoltage after 3 seconds 29 ~ 33V ge, re-power on to recover heat sink of power switch) ge, re-power automatically after temperature go A 30VAC / 0.5A RESISTIVE LC it load derating curve)	56 ~ 65V es down IAD
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	OVERTEMPERATURE DC OK RELAY CONTACT RATINGS (max.) WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION MOUNTING SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	$\geq 150\% rated power, constate seconds and shut down over 14 ~ 17V Protection type: Shut down overvoltag 95°C ± 5°C (TSW: detect on Protection type: Shut down overvoltag 60VDC / 0.3A 30VDC / 1 -25 ~ +70°C (Refer to output Installation clearances: 40mm on top permanently with full power. In case 20 ~ 95% RH non-condensities -40 ~ +85°C, 10 ~ 95% RH ±0.03% / °C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cy Compliance to IEC60068-2-UL508 EN60950-1 compliant I/P-0/P: 3KVAC I/P-FG: 1. I/P-0/P; I/P-FG, 0/P-FG: 210$	ervoltage after 3 seconds 29 ~ 33V ge, re-power on to recover heat sink of power switch) ge, re-power automatically after temperature ge A 30VAC / 0.5A RESISTIVE LC at load derating curve) , 20mm on the bottom, 5mm on the left and riging the adjacent device is a heat source, 15mm clear ing cle, 60 min. each long X,Y, Z axes 6 5KVAC 0/P-FG: 0.5KVAC 0/P-C DOM Ohms/500VDC (25°C; 70% RH)	56 ~ 65V es down AD nt side are recommended when loaded arance 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	$\geq 150\% rated power, constate seconds and shut down over 14 ~ 17V Protection type: Shut down overvoltag 95°C \pm 5°C (TSW: detect on Protection type: Shut down overvoltag 60VDC / 0.3A 30VDC / 1 -25 ~ +70°C (Refer to output Installation clearances: 40mm on top permanently with full power. In case 20 ~ 95% RH non-condensi -40 ~ +85°C, 10 ~ 95% RH \pm0.03% / °C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cy Compliance to IEC60068-2-UL508 EN60950-1 compliant I/P-o/P: 3KVAC I/P-FG: 1. I/P-0/P; JKVAC I/P-FG: 210 Compliance to EN55022 (CIS$	ervoltage after 3 seconds 29 ~ 33V ge, re-power on to recover heat sink of power switch) ge, re-power automatically after temperature ge A 30VAC / 0.5A RESISTIVE LC it load derating curve) , 20mm on the bottom, 5mm on the left and rigit the adjacent device is a heat source, 15mm clear ing cle, 60 min. each long X,Y, Z axes 6 5KVAC 0/P-FG: 0.5KVAC 0/P-E 00M 0hms/500VDC (25°C; 70% RH) SPR22) Class B	56 ~ 65V es down AD nt side are recommended when loaded arance is recommended
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	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	$\geq 150\% rated power, constased of the seconds and shut down over othe seconds and shut down over othe second second$	ervoltage after 3 seconds 29 ~ 33V ge, re-power on to recover heat sink of power switch) ge, re-power automatically after temperature ge A 30VAC / 0.5A RESISTIVE LC it load derating curve) , 20mm on the bottom, 5mm on the left and rigit the adjacent device is a heat source, 15mm clear ing cle, 60 min. each long X,Y, Z axes 6 5KVAC 0/P-FG: 0.5KVAC 0/P-E DOM 0hms/500VDC (25°C; 70% RH) SPR22) Class B 2,-3 2,3,4,5,6,8,11; ENV50204; EN55024 level; criteria A, SEMI F47, GL approx	56 ~ 65V es down AD nt side are recommended when loaded arance is recommended DC OK: 0.5KVAC c; EN61000-6-2; (EN50082-2); wed
	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	$\geq 150\% rated power, constased of the seconds and shut down over othe seconds and shut down over othe second second$	ervoltage after 3 seconds 29 ~ 33V ge, re-power on to recover heat sink of power switch) ge, re-power automatically after temperature ge A 30VAC / 0.5A RESISTIVE LC it load derating curve) , 20mm on the bottom, 5mm on the left and rigit the adjacent device is a heat source, 15mm clear ing cle, 60 min. each long X,Y, Z axes 6 5KVAC 0/P-FG: 0.5KVAC 0/P-E 00M 0hms/500VDC (25°C; 70% RH) SPR22) Class B 2,-3 2,3,4,5,6,8,11; ENV50204; EN55024	56 ~ 65V es down AD nt side are recommended when loaded arance is recommended DC OK: 0.5KVAC s; EN61000-6-2; (EN50082-2); wed
	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	$\geq 150\% \text{ rated power, constase} \\ \text{seconds and shut down over } \\ 14 ~ 17V \\ \text{Protection type: Shut down overvoltage} \\ 95°C \pm 5°C (TSW: detect on Protection type: Shut down overvoltage) \\ 60VDC / 0.3A 30VDC / 1 \\ -25 ~ +70°C (Refer to output Installation clearances: 40mm on top permanently with full power. In case 1 \\ 20 ~ 95% RH non-condensise \\ -40 ~ +85°C, 10 ~ 95% RH \\ \pm 0.03\% / °C (0 ~ 50°C) \\ 10 ~ 500Hz, 2G 10min./1cy \\ Compliance to IEC60068-2- \\ UL508 \\ EN60950-1 compliant \\ I/P-0/P: 3KVAC I/P-FG: 1. \\ I/P-0/P: 3KVAC I/P-FG: 210 \\ Compliance to EN55022 (Cls Compliance to EN61000-3-2 \\ Compliance to EN61000-4-2 \\ EN61204-3; heavy industry \\ The power supply is considered a com that it still meets EMC directives. \\ \end{cases}$	ervoltage after 3 seconds 29 ~ 33V ge, re-power on to recover heat sink of power switch) ge, re-power automatically after temperature ge A 30VAC / 0.5A RESISTIVE LC ut load derating curve) , 20mm on the bottom, 5mm on the left and rigithe adjacent device is a heat source, 15mm clear ing cle, 60 min. each long X,Y, Z axes 6 5KVAC 0/P-FG: 0.5KVAC 0/P-E 20M 0hms/500VDC (25°C; 70% RH) SPR22) Class B 2,-3 2,3,4,5,6,8,11; ENV50204; EN55024 level; criteria A, SEMI F47, GL appro- nponent which will installed into a final equipment	56 ~ 65V es down AD nt side are recommended when loaded arance is recommended DC OK: 0.5KVAC s; EN61000-6-2; (EN50082-2); wed
	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	≥ 150% rated power, consta seconds and shut down over 14 ~ 17V Protection type: Shut down overvoltag 95°C ± 5°C (TSW: detect on Protection type: Shut down overvoltag 60VDC / 0.3A 30VDC / 1 -25 ~ +70°C (Refer to output Installation clearances: 40mm on top permanently with full power. In case i 20 ~ 95% RH non-condensi -40 ~ +85°C, 10 ~ 95% RH ±0.03% / °C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cy Compliance to IEC60068-2- UL508 EN60950-1 compliant I/P-0/P: 3KVAC I/P-FG: 1. I/P-0/P: 3KVAC I/P-FG: 21 Compliance to EN55022 (CII Compliance to EN55022 (CII Compliance to EN61000-4-2 EN61204-3; heavy industry The power supply is considered a con that it still meets EMC directives. 289.9K hrs min. MIL-HDB	ervoltage after 3 seconds 29 ~ 33V ge, re-power on to recover heat sink of power switch) ge, re-power automatically after temperature ge A 30VAC / 0.5A RESISTIVE LC ut load derating curve) , 20mm on the bottom, 5mm on the left and right the adjacent device is a heat source, 15mm clear ing cicle, 60 min. each long X,Y, Z axes 6 5KVAC 0/P-FG: 0.5KVAC 0/P-E 20M 0hms/500VDC (25°C; 70% RH) SPR22) Class B 2,-3 2,3,4,5,6,8,11; ENV50204; EN55024 level; criteria A, SEMI F47, GL appro- nponent which will installed into a final equipme K-217K (25°C)	56 ~ 65V es down AD nt side are recommended when loaded arance is recommended DC OK: 0.5KVAC s; EN61000-6-2; (EN50082-2); wed
	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	$\geq 150\% \text{ rated power, constase} \\ \text{seconds and shut down over } \\ 14 ~ 17V \\ \text{Protection type: Shut down overvoltage} \\ 95°C \pm 5°C (TSW: detect on Protection type: Shut down overvoltage) \\ 60VDC / 0.3A 30VDC / 1 \\ -25 ~ +70°C (Refer to output Installation clearances: 40mm on top permanently with full power. In case 1 \\ 20 ~ 95% RH non-condensise \\ -40 ~ +85°C, 10 ~ 95% RH \\ \pm 0.03\% / °C (0 ~ 50°C) \\ 10 ~ 500Hz, 2G 10min./1cy \\ Compliance to IEC60068-2- \\ UL508 \\ EN60950-1 compliant \\ I/P-0/P: 3KVAC I/P-FG: 1. \\ I/P-0/P: 3KVAC I/P-FG: 210 \\ Compliance to EN55022 (Cls Compliance to EN61000-3-2 \\ Compliance to EN61000-4-2 \\ EN61204-3; heavy industry \\ The power supply is considered a com that it still meets EMC directives. \\ \end{cases}$	ervoltage after 3 seconds 29 ~ 33V ge, re-power on to recover heat sink of power switch) ge, re-power automatically after temperature ge A 30VAC / 0.5A RESISTIVE LC ut load derating curve) , 20mm on the bottom, 5mm on the left and rig the adjacent device is a heat source, 15mm clea- ing cle, 60 min. each long X,Y, Z axes 6 5KVAC 0/P-FG: 0.5KVAC 0/P-E DOM 0hms/500VDC (25°C; 70% RH) SPR22) Class B 2,-3 2,3,4,5,6,8,11; ENV50204; EN55024 level; criteria A, SEMI F47, GL appro- mponent which will installed into a final equipme- K-217K (25°C) D)	56 ~ 65V es down AD nt side are recommended when loaded arance is recommended DC OK: 0.5KVAC s; EN61000-6-2; (EN50082-2); wed

Terminal	Pin No. Assignment (TB1)
Pin No	Assignment

1 11110.	noorginnoin	
1	FG 🖶	
2	AC/N	
3	AC/L	

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

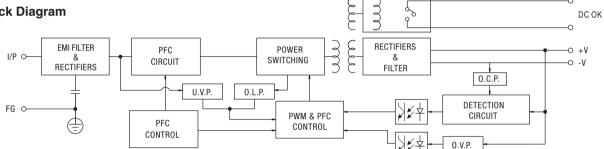


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DC OK Relay Contact

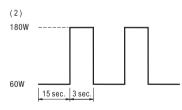
ĺ	Contact Close	ontact Close When the output voltage reaches the adjusted output voltage.		
	Contact Open	When the output voltage drop below 90% output voltage.		
	Contact Ratings (max.)	30V/1A resistive load		

Block Diagram

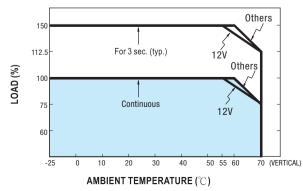


Peak Loading

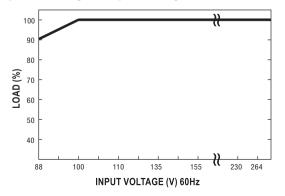




Derating Curve



Output Derating VS Input Voltage

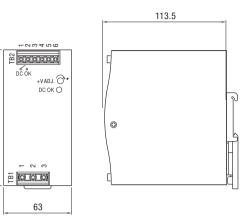


	PS-C240 S Specification	S B	 150% pea Built-in ac Protection Overtemp Cooling by DIN rail m UL 508 (ir EN61000 Built-in D0 	y free air convection
			• 3 year wa	rranty
UTPUT	Cat. No.	PS-C24024		PS-C24048
	DC VOLTAGE	24V		48V
	RATED CURRENT	10A		5A
	CURRENT RANGE	0 ~ 10A		0 ~ 5A
	RATED POWER	240W		240W
	PEAK CURRENT	15A		7.5A
	PEAK POWER	360W (3 sec.)		
		3 seconds max., please refer	to peak loadi	<u> </u>
	RIPPLE & NOISE (max)	100mVp-p		120mVp-p
			of bandwidth by usi	ng a 12 twisted pair-wire terminated with a 0.1µF & 47µF parallel capacitor.
	VOLTAGE ADJ. RANGE	24 ~ 28V		48 ~ 55V
	VOLTAGE TOLERANCE	±1.0%		±1.0%
	LINE REGULATION	Tolerance: includes set up tolerance, lir $\pm 0.5\%$	ne regulation and	±0.5%
	LOAD REGULATION	±0.5% ±1.0%		±1.0%
	SETUP, RISE TIME		3000ms 60m	s / 115VAC at full load
NPUT	HOLD UP TIME (Typ.)	20ms / 230VAC		AC at full load
	VOLTAGE RANGE	88 ~ 264VAC	124 ~ 370VE	
	VULIAGE NANGE			
	FREQUENCY RANGE	$47 \sim 63$ Hz	out voitages, pieas	e check the derating curve for more detail
	POWER FACTOR (Typ.)		VAC at full loa	he
	EFFICIENCY (Typ.)	94%		
		After 30 minutes of burn-in.		
	AC CURRENT (Typ.)	2.6A / 115VAC 1.3A / 23	OVAC	
	INRUSH CURRENT (Typ.)	33A / 115VAC 65A / 23		
ROTECTION	LEAKAGE CURRENT	\leq 1 mA / 240VAC		
	OVERLOAD	Normally works within 110 ~	150% rated	output power for more than 3 seconds and then shut
	OVERVOLTAGE	down overvoltage with auto- \geq 150% rated power, constar recovery within 2 seconds an 29 ~ 33V	recovery nt current limi nd shut down	ting with auto- overvoltage after 2 seconds 56 ~ 65V
		Protection type: Shut down overvoltage $O_{5}^{\circ}C + S_{5}^{\circ}C$ (TSW) dotoot on b		-
NVIRONMENT	OVERTEMPERATURE	$95^{\circ}C \pm 5^{\circ}C$ (TSW: detect on h	•	
INVIRUNIVIENT		Protection type: Shut down overvoltage		, , ,
	DC OK RELAY CONTACT RATINGS (max.)	60VDC / 0.3A 30VDC / 1A	30VAC / 0	.5A RESISTIVE LOAD
	WORKING TEMP.	-25 ~ +70°C (Refer to output	load derating	i curve)
				om, 5mm on the left and right side are recommended when loaded
			-	is a heat source, 15mm clearance is recommended.
	WORKING HUMIDITY	20 ~ 95% RH non-condensin	ıg	
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH		
		$\pm 0.03\%$ / °C (0 ~ 50°C)	lo 60 min	ah lang X V 7 ayaa
ACETV & EMC	VIBRATION	10 ~ 500Hz, 2G 10min./1cyc		CHIONY A, Y, Z AXES
AFETY & EMC	MOUNTING	Compliance to IEC60068-2-6	1	
	SAFETY STANDARDS	UL508		
		EN60950-1 compliant		
	WITHSTAND VOLTAGE	I/P-0/P: 3KVAC I/P-FG: 1.5		
	ISOLATION RESISTANCE EMI CONDUCTION & RADIATION	I/P-O/P, I/P-FG, O/P-FG: ≥100 Compliance to EN55022 (CIS		
			,	1
	HARMONIC CURRENT EMS IMMUNITY	Compliance to EN61000-3-2, Compliance to EN61000-4-2		ENV50204; EN55024; EN61000-6-2; (EN50082-2),
		EN61204_2 hoavy inductory l	uvui, unitend P	x_1 , y_2 , y_1 , y_2 , y_1 , y_2 ,
		EN61204-3; heavy industry le		installed into a final equipment. The final equipment must be
THERS			ponent which will	installed into a final equipment. The final equipment must be
THERS		The power supply is considered a com re-confirmed that it still meets EMC dir	ponent which will rectives.	installed into a final equipment. The final equipment must be
THERS	MTBF	The power supply is considered a com re-confirmed that it still meets EMC dir 169.3K hrs min. MIL-HDBK	rectives. C-217K (25°C)	installed into a final equipment. The final equipment must be
THERS		The power supply is considered a com re-confirmed that it still meets EMC dir	ponent which will rectives. (-217K (25°C))	installed into a final equipment. The final equipment must be

Terminal Pin No. Assignment (TB1)			
Pin No.	Assignment		
1	FG 🖶		
2	AC/N		
3	AC/L		

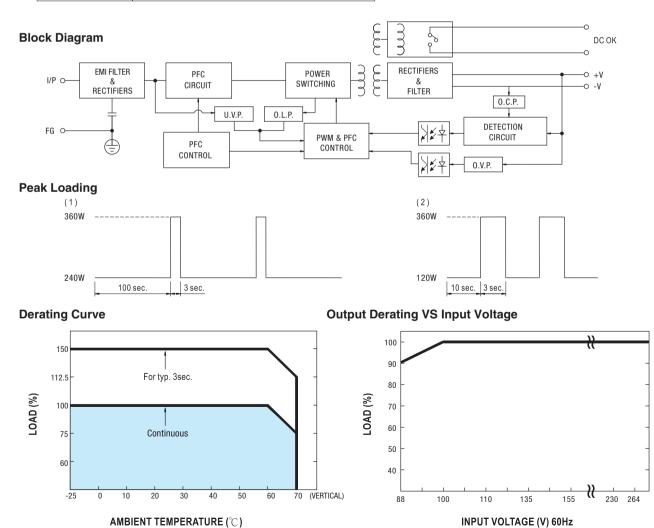
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Pin No.	Assignment		
1,2	Relay Contact		
3,4	DC OUTPUT +V		
5,6	DC OUTPUT -V		



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	



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

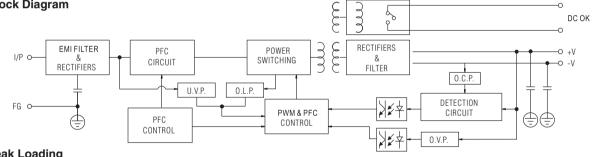
	PS-C480 S Specifications	s s	 150% peak Built-in activ Protections: Overtemperation Cooling by f Built-in constant DIN rail moutility UL 508(indu EN61000-6- Built-in DC 0 	ree air convection stant current limiting circuit untable Istrial control equipment) approved 2(EN50082-2) industrial immunity level DK relay contact ad burn-in test
OUTPUT	Cat. No.	PS-C48024	o year warre	PS-C48048
	DC VOLTAGE	24V		
	RATED CURRENT CURRENT RANGE RATED POWER PEAK CURRENT PEAK POWER RIPPLE & NOISE (max)	20A 0 ~ 20A 480W 30A 720W (3 sec.) 3 seconds peak power max 100mVp-p	-	48V 10A 0 ~ 10A 480W 15A e output power should not exceed the rate power 120mVp-p a 12 twisted pair-wire terminated with a 0.1µF & 47µF parallel capacitor.
			12 of ballowidal by doing	
INPUT	VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.)	$\begin{array}{c} 24 \sim 28V\\ \pm 1.2\%\\ \text{Tolerance: includes set up tolerance}\\ \pm 0.5\%\\ \pm 1.0\%\\ 1500\text{ms}, 150\text{ms} / 230\text{VAC}\\ 14\text{ms} / 230\text{VAC} \text{ at full load} \end{array}$	3000ms, 15	48 ~ 55V $\pm 1.0\%$ d regulation. $\pm 0.5\%$ $\pm 1.0\%$ Oms / 115VAC at full load
	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 3		
	FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.)	Derating may be needed under low 47 ~ 63Hz 0.94 / 230VAC 0.99 / 1 94% After 30 minutes of burn-in	input voltages, please o	check the derating curve for more detail
PROTECTION	AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT	5A / 115VAC 2.5A / 23 40A / 115VAC 80A / 23 ≤ 0.8 mA / 240VAC		
	OVERLOAD	down overvoltage with auto	o-recovery tant current limitir econds	utput power for more than 3 seconds and then shut ng with auto-recovery within 2 seconds and shut 56 ~ 65V
		Protection type: Shut down overvolts 105° C (TCW) detected		
	OVERTEMPERATURE	105°C ± 5°C (TSW: detect of Protection type: Shut down overvolts	•	
ENVIRONMENT	DC OK RELAY CONTACT RATINGS (max.)	60VDC / 0.3A; 30VDC / 1A;		
	WORKING TEMP.	$-25 \sim +70^{\circ}$ C (Refer to outp	•	
SAFETY & EMC	WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION MOUNTING		e the adjacent device is sing H cycle, 60 min. each	, 5mm on the left and right side are recommended when loaded a heat source, 15mm clearance is recommended. n long X,Y, Z axes
	SAFETY STANDARDS	UL508		
OTHERS	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT EMS IMMUNITY	EN61204-3; heavy industry	100M Ohms/500V CISPR22) Class B -2,-3 -2,3,4,5,6,8,11; E y level; criteria A, t omponent which will ins	NV50204; EN55024; EN61000-6-2; (EN50082-2),
	MTBF	112.9K hrs min. MIL-HDI	-	
	DIMENSION PACKING	85.5x125.2x128.5mm (Wx 1.6Kg; 8pcs / 13.8Kg / 0.9	HxD) CUFT	30V AC input, rated load and 25°C of ambient temperature.
		,		1. 3

							Ŀ		128.5	
					Ì	DC 0K		c D		
Terminal	Pin No. Assignment (TB1)	Terminal	Pin No. Assignme	nt (TB2)						L
Pin No.	Assignment	Pin No.	Assignment		5		- 4			N
1	FG 🖶	1,2	DC OUTPUT +V		125.2			٥		
2	AC/N	3,4	DC OUTPUT -V							4
3	AC/L	5,6	Relay Contact	1		O DC OK O*+V ADJ		\		Π
		7,8	NC	1		- 0 00				
					<u> </u>			d		Ľ
	Polov Contact					85.5				

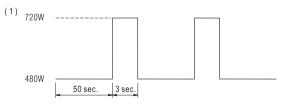
DC OK Relay Contact

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

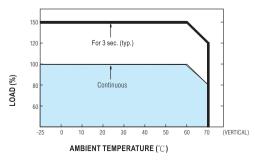




Peak Loading



Derating Curve

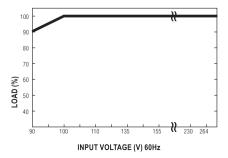


Output Derating VS Input Voltage

15 sec. 3 sec.

(2) _{720W}

240W

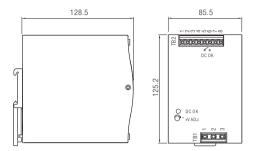


PARAL	PS-C480P With Parallel Fu Specifications	unction S	 150% peak Built-in activ Protections: Overtempera Cooling by f Built-in cons DIN rail mou Current shar UL 508(indu EN61000-6- Built-in DC 0 	ree air convection tant current limiting circuit intable ring up to 380W (1+7) strial control equipment)approved 2(EN50082-2) industrial immunity level DK relay contact ad burn-in test		
OUTPUT	Cat. No.	PS-C480P24		PS-C480P48		
	DC VOLTAGE	24V		48V		
	RATED CURRENT	20A		10A		
	CURRENT RANGE	0 ~ 20A		0 ~ 10A		
	RATED POWER	480W		480W		
	PEAK CURRENT	30A		15A		
	PEAK POWER	720W (3 sec.)				
		3 seconds peak power max. and th	ne average output power	should not exceed the rate power		
	RIPPLE & NOISE (max)	100mVp-p		120mVp-p		
		Ripple & noise are measured at 20M	Hz of bandwidth by using	a 12 twisted pair-wire terminated with a 0.1µF & 47µF parallel capacitor.		
	VOLTAGE ADJ. BANGE	24 ~ 28V		48 ~ 55V		
	VOLTAGE TOLERANCE	±1.2%		±1.0%		
		Tolerance: includes set up tolerance	e, line regulation and loa			
	LINE REGULATION	±0.5%	.,	±0.5%		
	LOAD REGULATION	±1.0%		±1.0%		
INPUT	SETUP, RISE, HOLD UP TIME	1500ms, 150ms, 14ms / 2	230VAC 3000	ms, 150ms / 115VAC at full load		
	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 3	370VDC			
	FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.)	47 ~ 63Hz 0.94 / 230VAC 0.99 / 1 94% After 30 minutes of burn-in.	115VAC at full load	heck the derating curve for more detail		
	AC CURRENT (max.)	5A / 115VAC 2.5A / 230VAC 40A / 115VAC 80A / 230VAC				
PROTECTION	INRUSH CURRENT (Typ.) LEAKAGE CURRENT	40A / 115VAC 80A / 23 ≤ 0.6 mA / 240VAC	BUVAC			
FNOTEGHON	OVERLOAD			the structure for more than 0 accords and then shut		
ENVIRONMENT	OVERLOAD OVERVOLTAGE OVERTEMPERATURE CURRENT SHARING DC OK RELAY CONTACT RATINGS (max.)	down overvoltage with aut	to-recovery stant current limitir seconds tage with auto-recovery on heat sink of po tage, re-power automatium	wer switch) cally after temperature goes down		
	WORKING TEMP.	-25 ~ +70°C (Refer to out)	,			
SAFETY & EMC	WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION MOUNTING	Installation clearances: 40mm on to	op, 20mm on the bottom the the adjacent device is using H cycle, 60 min. each	, 5mm on the left and right side are recommended when loaded a heat source, 15mm clearance is recommended.		
	SAFETY STANDARDS	UL508				
OTHERS	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT EMS IMMUNITY	EN60950-1 compliant I/P-0/P: 3KVAC I/P-FG: ⊃ I/P-0/P, I/P-FG, 0/P-FG: ≥ Compliance to EN55022 ((Compliance to EN61000-3 Compliance to EN61000-4 EN61204-3; heavy industr	100M Ohms/500V CISPR22) Class B 8-2,-3 I-2,3,4,5,6,8,11; El ry level; criteria A, 3	NV50204; EN55024; EN61000-6-2; (EN50082-2),		
	MTBF	112.9K hrs min. MIL-HD	BK-217K (25°C)			
	DIMENSION	85.5x125.2x128.5mm (WxHxD)				
	PACKING	1.6Kg; 8pcs / 13.8Kg / 0.9				
		All parameters NOT specially menti	ioned are measured at 2	30V AC input, rated load and 25°C of ambient temperature.		

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	DC OUTPUT +V
3,4	DC OUTPUT -V
5,6	Relay Contact
7	P+ (current share)
8	P- (current share)



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 (1)

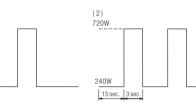
720W

480W

50 sec.

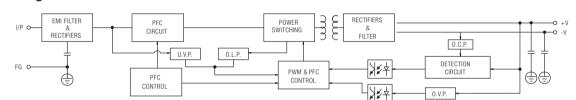
3 sec.

C 3 Š



DC OK

Block Diagram



- DC OK P+ P-

PSU

+ - DC OK P+ P-

PSU

+ - DC OK P+ P-

PSU

Function Diagram

1. Current sharing

(1)Parallel operation is available by connecting the units shown as below (P+,P- are connected mutually in parallel): (2)The voltage difference among each output should be minimized that less than 2% is required. (3)The total output current must not exceed the value determined

by the following equation (Output current at parallel operation)

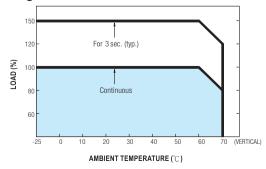
=(The rated current per unit) x (Number of unit) x 0.9.

(4) In parallel operation 8 units is the maximum, please consult

the manufacture for other applications. (5) When in parallel operation, the minimum output load should

be greater than 3% of total output load. (Min. load > 3% rated current per unit x number of unit)

Derating Curve



Output Derating VS Input Voltage

- DC OK P+ P-

PSU

DC OK P+ P-

PSU

- DC OK P+ P-

PSU

- DC OK P+ P-

PSU

LOAD

DC OK P+ P-

PSU

