# **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

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35mm DIN Rail	DC OK	Adjustable DC Output Voltage DC on LED signal
Mounting	Cat No.:	Easy to understand layout panel
Description in	PS-C12012	
Rugged metal housing	Tanan and the second se	CE Compliance
	CE en	UL508 Compliance
	peiel	Universal Input
Narrow for maximized panel space		

# 120-480W Single Phase

COMPACT SIZE POWER SUPPLIES



# **120W Single Output DIN Rail Power Supply**

Cat. No.	Output	Tol.	Ripple &	Efficiency	NOTES
	V DC A	<b>\</b> %	Noise		
PS-C12012	12V DC 10	0A ±1%	100 mVp-р	89%	
PS-C12024	24V DC 5	5A ±1%	100 mVp-р	91%	
PS-C12048	48V DC 2.	5A ±1%	120 mVp-p	91%	

# 240W Single Output DIN Rail Power Supply

Cat. No.	Outpi V DC	ut 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

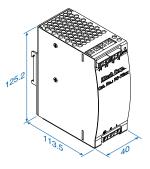
with PFC and Parallel Function (1+7)

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

# **SPECIFICATIONS**

# Altech Corp.

# **PS-C120 Series**



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

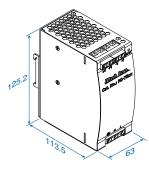
AC/L

3

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**



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

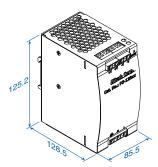
#### Terminal Pin. No Assign. (TB2)

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 Pin. No Assign. (TB1)

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

### For Parallel Model

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	DC OUTPUT +V	

1,2	DC OUTPUT +V
3,4	DC OUTPUT -V
5,6	Relay Contact
7,8	NC

For Parallel Model Terminal Pin. No Assign. (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)*

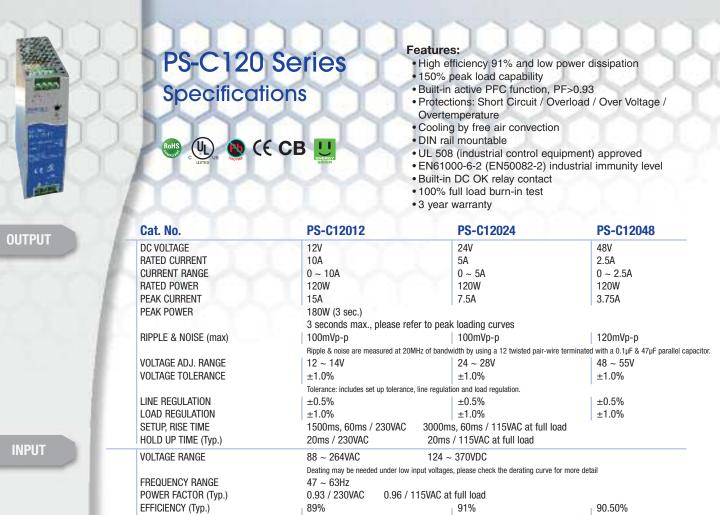
\* Only parallel function.

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

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

Accessories



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ENVIRONMENT

SAFETY & EMC

**OTHERS** 

Voltage Adj. Range	12 ~ 14V		24 ~ 28V		48 ~ 55V
VOLTAGE TOLERANCE	±1.0%		±1.0%		±1.0%
LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.)	Tolerance: includes set up tolera ±0.5% ±1.0% 1500ms, 60ms / 230VA0 20ms / 230VAC	C 3000r	tition and load regulation $\pm 0.5\%$ $\pm 1.0\%$ ns, 60ms / 115VA( s / 115VAC at full I	C at full load	±0.5% ±1.0%
VOLTAGE RANGE	88 ~ 264VAC		~ 370VDC	ouu	
FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT	Deating may be needed under lo 47 ~ 63Hz 0.93 / 230VAC 0.96 89% 1.4A / 115VAC 0.7A		es, please check the der	ating curve for more de	<sup>tail</sup>
OVERLOAD	Normally works within 1 down overvoltage $\geq$ 150% rated power, co seconds and shut down 14 ~ 17V	nstant curr	ent limiting with a		
OVERTEMPERATURE	Protection type: Shut down over $95^{\circ}C \pm 5^{\circ}C$ (TSW: detect Protection type: Shut down over	on heat sir	nk of power switch	,	
DC OK RELAY CONTACT RATINGS (max.)	60VDC / 0.3A 30VDC	; / 1A	30VAC / 0.5A RES	SISTIVE LOAD	
WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION MOUNTING	$\begin{array}{l} -25 & +70^{\circ}\text{C} \; (\text{Refer to of} \\ \text{Installation clearances: 40mm of} \\ \text{permanently with full power. In } \\ 20 & -95\% \; \text{RH non-cond} \\ -40 & +85^{\circ}\text{C}, 10 & -95\% \\ \pm 0.03\% \; / \; ^{\circ}\text{C} \; (0 & -50^{\circ}\text{C}) \\ 10 & -500\text{Hz}, 2\text{G} \; 10\text{min}. \\ \text{Compliance to IEC60068} \end{array}$	n top, 20mm of case the adjace ensing RH (1cycle, 60	n the bottom, 5mm on th	e, 15mm clearance is r	
SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT EMS IMMUNITY	I/P-0/P, I/P-FG, 0/P-FG: Compliance to EN55022 Compliance to EN61000 Compliance to EN61000 EN61204-3; heavy indus	(CISPR22) -3-2,-3 -4-2,3,4,5, stry level; c a component v	ms/500VDC (25°C; Class B 6,8,11; ENV50204 riteria A, SEMI F47	; EN55024; EN610 , GL approved	
MTBF DIMENSION PACKING	289.9K hrs min. MIL-H 40x125.2x113.5mm (Wx 0.67Kg; 20pcs / 14.4Kg All parameters NOT specially me	(HxD) / 1.16CUFT	T	t, rated load and 25°C o	f ambient temperature.

# Altech Corp.

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## **Mechanical Specification**

Assig

FG 🕀

AC/N

AC/L

Pin No.

1

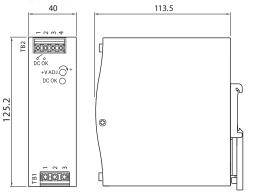
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3

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

nment	Pin No.
)	1,2
	3
	4

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



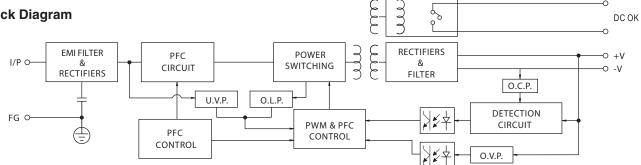
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Accessories

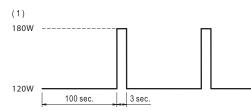
## **DC OK Relay Contact**

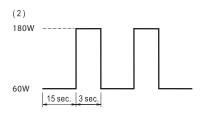
Contact Close	When the output voltage reaches the adjusted output voltage.
Contact Open	When the output voltage drop below 90% output voltage.
Contact Ratings (max.)	30V/1A resistive load

### **Block Diagram**

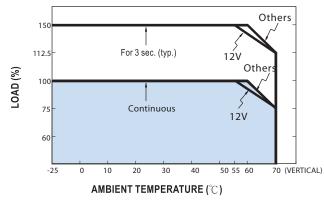


### **Peak Loading**

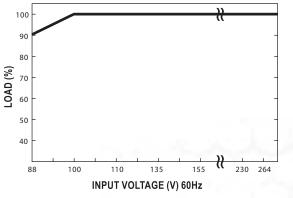




## **Derating Curve**



## **Output Derating VS Input Voltage**



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