



PSC-96 Series

Version 2



Features:

- Universal AC input (90-264V AC)
- Protections: Short Circuit / Overload / Overvoltage
- Installed on DIN rail TS35 / 7.5 or 15
- DC OK relay output
- All wiring 105°C long life electrolytic capacitors
- High operation temperature up to 70°C
- Withstands 2G vibration test
- High efficiency, long life and high reliability
- 3 year warranty
- NEC Class 2 compliant
- UL508 (Industrial control equipment) listed

OUTPUT

INPUT

PROTECTION

ENVIRONMENT

SAFETY & EMC

OTHERS

NOTES

Cat. No.	PSC-9612	PSC-9615	PSC-9624	PSC-9648
DC VOLTAGE	12V	15V	24V	48V
RATED CURRENT	7.5A	6A	4A	2A
CURRENT RANGE	0 ~ 7.5A	0 ~ 6.0A	0 ~ 4.0A	0 ~ 2.0A
RATED POWER	90 W	90 W	96 W	96 W
RIPPLE & NOISE (max)	120mVp-p	120mVp-p	150mVp-p	200mVp-p
VOLTAGE ADJ. RANGE	12.0 ~ 15.0V	13.5 ~ 16.5V	22.48 ~ 30.37V	43.2 ~ 52.8V
VOLTAGE TOLERANCE	±1.0%	±1.0%	±1.0%	±1.0%
LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
SETUP, RISE TIME	< 500ms, <30ms/230VAC; 1000ms/115VAC at full load			
HOLD UP TIME (Typ.)	> 30ms/115VAC at full load			
VOLTAGE RANGE	85-264VAC / 120-370VDC Derating may be needed under low input voltages. Please check the derating curve for more details.			
FREQUENCY RANGE	47~63Hz			
EFFICIENCY (Typ.)	83%	86%	88%	88%
AC CURRENT (Typ.)	1.3A/115VAC 0.8A/230VAC			
INRUSH CURRENT (Typ.)	COLD START 30A / 115VAC; 60A / 230VAC			
LEAKAGE CURRENT	< 0.25mA/240VAC			
OVERLOAD PROTECTION	>105%-150% Rated Output Power Protection type: Hiccup Mode- recovers automatically after fault condition is removed			
OVERVOLTAGE PROTECTION	19.5 ~ 21.6V	19.5 ~ 22.5V	31.2 ~ 36V	57.6 ~ 64.8V
OVER TEMPERATURE PROTECTION	Protection type : Shut down o/p voltage, re-power on to recover			
OVER CURRENT	Shut down o/p voltage, re-power on to recover 110%-180%			
WORKING TEMP.	-20 ~ +70°C (Refer to output load derating curve)			
WORKING HUMIDITY	20 ~ 90% 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. each long X,Y, Z axes			
SAFETY STANDARDS	UL508, BS/EN62368-1, NEC Class 2 Compliant			
WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC			
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH			
EMI CONDUCTION & RADIATION	BS/EN55032 (CISPR32) Class B			
HARMONIC CURRENT	BS/EN61000-3-2,-3, EAC TP TC 020			
EMS IMMUNITY	BS/EN61204-3 Class B, CNS13438 Class B			
DC OK Signal	Relay contact (30VDC / 1A, 120VAC / 1A)			
MTBF	200K hrs. min. at full load 25°C ambient temp			
DIMENSION	55 x 92 x 100 mm (WxHxD)			
PACKING	0.40Kg each / 0.9 LBs each / 1 piece / 40 pieces per CTN			
CONNECTION	I/P 3 poles, O/P: 6 poles screw DIN terminal			
COOLING	Free air convection			

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.
3. Tolerance : includes set up tolerance, line regulation and load regulation.
4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."
5. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.
6. The ambient temperature de-rating of 3.5°C /1000m

For the latest on Altech Power Supplies please visit www.altechcorp.com/power.

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Altech Corp.

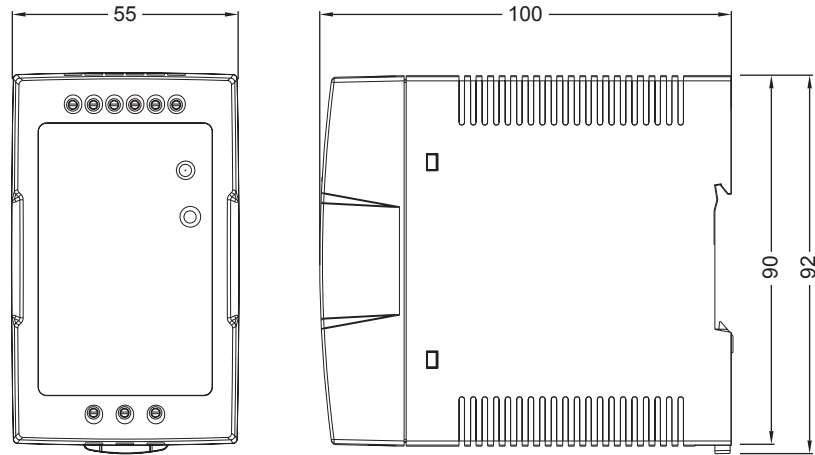
Mechanical Specification

Terminal Pin. No Assign. (TB1)

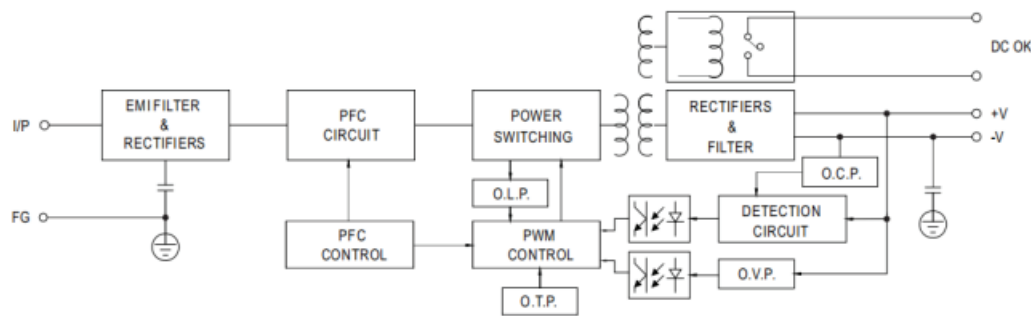
Pin No.	Assignment
1	FG ⊕
2	AC/N
3	AC/L

Terminal Pin. No Assign. (TB2)

Pin No.	Assignment
1,2	DC OUTPUT +V
3,4	DC OUTPUT -V
5,6	DC OK RELAY CONTACT



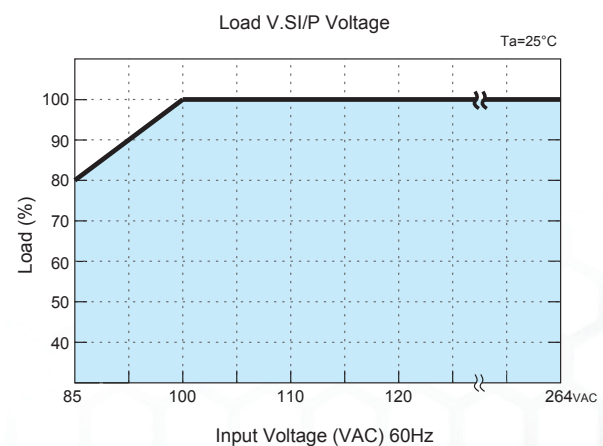
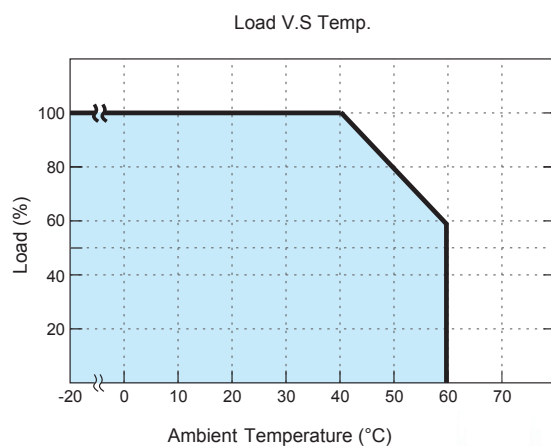
Block Diagram



DC OK Relay Contact

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

Derating Curve



Slimline
single phase

Low Profile
single phase

Industrial Metal Case
single phase

Industrial Metal Case
three phase

High Efficiency
compact housing

Accessories