

PSC-10 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

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PROTECTION

ENVIRONMENT

SAFETY & EMC

OTHERS

NOTES

Cat. No.	PSC-1005	PSC-1012	PSC-1015	PSC-1024
DC VOLTAGE RATED CURRENT CURRENT RANGE RATED POWER RIPPLE & NOISE (max) VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE LINE REGULATION	5V 2A 0-2.0A 10W 80mVp-P 5-6V ±2.0% ±1.0%	12V 1.0A 0 ~ 1.0A 12 W 120mVp-p 10.8 ~ 13.2V ±1.0% ±1.0%	15V 0.67A 0 ~ 0.67A 10 W 150mVp-p 13.5~ 16.5V ±1.0% ±1.0%	24V 0.42A 0 ~ 0.42A 12 W 150mVp-p 21.6 ~ 26.4V ±1.0% ±1.0%
LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.)	±5.0% < 500ms, <30ms/23 > 30ms/115VAC at for	±3.0% BOVAC; 1000ms/115VAC a ull load	±3.0% at full load	±2.0%
VOLTAGE RANGE FREQUENCY RANGE EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT	85-264VAC / 120-37 ¹ Derating may be needed und 47~63Hz 77% 0.33A/115VAC; 0.21 35A/115V; 70A/230V < 0.25mA/240VAC	der low input voltages. Please che 81% A/230VAC	eck the derating curve for more de	tails.
OVERLOAD PROTECTION OVERVOLTAGE PROTECTION OVER TEMPERATURE PROTECTION OVER CURRENT	6.25~ 7.25V Protection type : Shut down	Output Power e- recovers automatically after far 15.6 ~ 18V o/p voltage, re-power on to recover	19.5 ~ 22.5V	31.2 ~ 36V
WORKING TEMP. WORKING HUMIDITY STORAGE TEMP. / HUMIDITY TEMP. COEFFICIENT VIBRATION	20 ~ 90% RH non-co -40 ~ +85°C; 10 ~ 9 ±0.03% / °C (0 ~ 50°	5% RH		
SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT EMS IMMUNITY	I/P-O/P:3KVAC I/P-FG I/P-O/P, I/P-FG, O/P-F BS/EN55032 (CISPR3 BS/EN61000- 3-2,-3,	,		
DC OK Signal MTBF DIMENSION PACKING CONNECTION COOLING	22.5 x 92 x 100 mm (0.140Kg each / 0.32	load 25°C ambient temp		

- 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

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Mechanical Specification

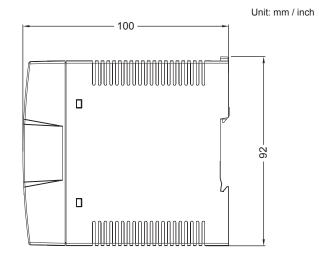
Terminal Pin. No Assign. (TB1)

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

Terminal Pin. No Assign. (TB2)

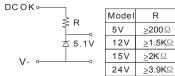
Pin No.	Assignment
4	DC OUTPUT +V
5	DC OUTPUT -V
6	DC OK SIGNAL



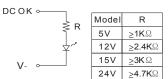


Application of DC OK Active Signal

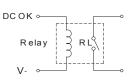








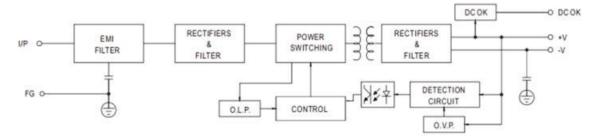
(c)Relay



Model	R
5V	≥120 Ω
12V	≥700 Ω
15V	≥700 Ω
24V	>1.2KΩ

Altech Corp.

Block Diagram



Derating Curve

