

PSC-20 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-2005	PSC-2012	PSC-2015	PSC-2024
DC VOLTAGE RATED CURRENT CURRENT RANGE RATED POWER RIPPLE & NOISE (max) VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.)	5V 3A 0-3A 15W 80mVp-P 5-6V ±2.0% ±1.0% < 500ms, <30ms/230V/ > 30ms/115VAC at full let	12V 1.67A 0 ~ 1.67A 20 W 120mVp-p 10.8 ~ 13.2V ±1.0% ±1.0% AC; 1000ms/115VAC at fu	15V 1.34A 0 ~ 1.34A 20 W 120mVp-p 13.5~ 16.5V ±1.0% ±1.0% ill load	24V 1.0A 0 ~ 1.0A 24 W 150mVp-p 21.6 ~ 26.4V ±1.0% ±1.0%
VOLTAGE RANGE FREQUENCY RANGE EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT	85-264VAC / 120-370VD	IC ow input voltages. Please check th	ne derating curve for more details	. 84%
OVERLOAD PROTECTION OVERVOLTAGE PROTECTION OVER TEMPERATURE PROTECTION OVER CURRENT	>105%-150% Rated Output Power Protection type: Hiccup Mode- recovers automatically after fault condition is removed $8.4 \sim 9.5 V \hspace{1cm} \hspace{-0.0cm} 15.6 \sim 18 V \hspace{1cm} \hspace{-0.0cm} 23.5 \sim 26.4 V \hspace{1cm} 31.2 \sim 36 V$ Protection type: Shut down o/p voltage, re-power on to recover Shut down o/p voltage, re-power on to recover $110\%-180\%$			
WORKING TEMP. WORKING HUMIDITY STORAGE TEMP. / HUMIDITY TEMP. COEFFICIENT VIBRATION	-20 ~ +70°C (Refer to output load derating curve) 20 ~ 90% RH non-condensing -40 ~ +85°C; 10 ~ 95% RH ±0.03% / °C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min. / 1cycle, 60 min. each long X,Y, Z axes			
SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT EMS IMMUNITY	UL508, BS/EN62368-1, NEC Class 2 Compliant I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH BS/EN55032 (CISPR32) Class B BS/EN61000- 3-2,-3, , EAC TP TC 020 BS/EN61204-3 Class B, CNS13438 Class B			
DC OK Signal MTBF DIMENSION PACKING CONNECTION COOLING	Active signal (See applica 200K hrs. min. at full loa 22.5 x 92 x 100 mm (Wx 0.140Kg each / 0.32 LBs I/P 3 poles, 0/P: 6 poles Free air convection	d 25°C ambient temp HxD) each / 1 piece / 100 piec	ces per CTN	

- 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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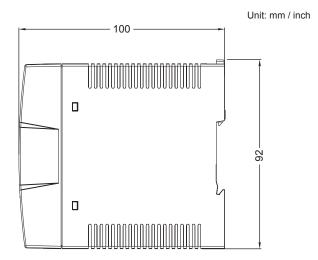
Mechanical Specification

Termina	al Pin. No Assign. (TB1)		
Pin No. Assignment			
1	FG⊕		
2	AC/N		
3	AC/L		

Terminal Pin. No Assign. (TB2)

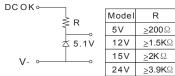
Pin No.	Assignment			
4	DC OUTPUT +V			
5	DC OUTPUT -V			
6	DC OK SIGNAL			



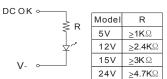


Application of DC OK Active Signal

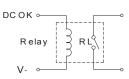




(b)LED



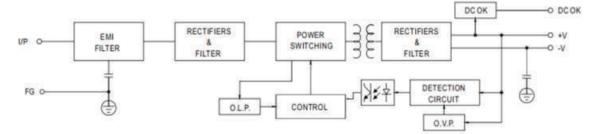
(c)Relay



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

Altech Corp.

Block Diagram



Derating Curve

