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# PSB-180 Series (2 Phase)

# **Specifications**



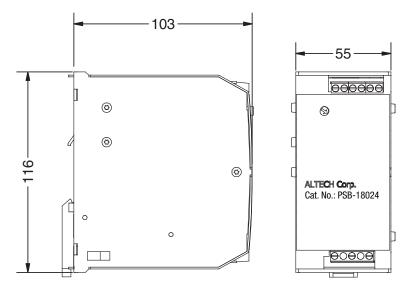
## Features:

- Multiple overload/ short circuit protection modes
- Efficiency above 91%
- Small size
- DIN rail mountable
- Cooling by free air convection
- UL508 (industrial control equipment) approved
- EN60950-1
- Built-in DC OK relay contact
- 3 year warranty

OUTPUT	Cat. No.	PSB-18024
	DC VOLTAGE	24 V
	RATED CURRENT	7.5 A
	CURRENT RANGE	0 - 7.5 A
	RATED POWER	180 W
	RIPPLE & NOISE (max)	100 mVp-p
	VOLTAGE ADJ. RANGE	Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a $0.1\mu$ F & 47 $\mu$ F parallel capacitor. 22 V ~ 27 V
	VOLTAGE TOLERANCE	-0.03
	VOLIAGE TOLLAANGE	Tolerance: includes set up tolerance, line regulation and load regulation.
	START UP WITH STRONG LOAD	$\leq$ 50,000 µF
	CURRENT SHORT CIRCUIT Icc	16 A
		Max 2 sec.: Hiccup mode
		Permanent: Continuous mode
	<b>DISSIPATION POWER LOAD mas</b>	17 W
	LINE REGULATION	± 0.5%
	LOAD REGULATION	± 1%
	SETUP, RISE TIME	1 sec. (max)
		Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.
INPUT	HOLD UP TIME (Typ.)	Typ. 20 msec
	VOLTAGE RANGE	187 ~ 264 V AC / 330 ~ 550V AC by switch
	FREQUENCY RANGE	47 ~ 63 Hz +-6%
	EFFICIENCY (Typ.)	>91 %
	AC CURRENT (230 - 400 - 500 Vac.)	) 1.5 ~ 0.8 ~ 0.7 A
	INRUSH CURRENT (Typ.)	< 17 A < 5 msec
	INTERNAL FUSE	T 4 A
	EXTERNAL FUSE (recommended)	10 A (MCB curve B)
PROTECTION	LEAKAGE CURRENT	< 1.5 mA @ 500 Vac
	OVERLOAD	In (60°C) x 1.5 ³ 3 min.;
		Current max. Overload @ 4Vdc (permanent) Imax=In (60°C) x (1.8 ~ 2.2)
	OVER VOLTAGE	30 ~ 35 Vdc
	OVER TEMPERATURE	Yes. Shuts down output and automatically restarts when the temperature inside goes down
ENVIRONMENT	SHORT CIRCUIT PROTECTION	1 Hiccup Mode / 2 Fold Back / 3 Restart After Main - Selectable
	DC OK AKTIV SIGNAL (max.)	20 ~ 30 Vdc
	WORKING TEMP.	-25 up to +70 °C
		(>60°derating 2.5% °C)
	HUMIDITY STORAGE TEMP	95 % at 25°C, no condensation -40 up to +85 °C
	TEMP. COEFFICIENT	$\pm 0.03\%$ / C° (0 ~ 60 °C)
SAFETY & EMC	VIBRATION	In according to IEC60068-2-6
	SAFETY STANDARDS	UL508 approved, IEC/EN 60950, EN 50178, IEC/EN 60950, EN60950-1, PELV EN 60204-1 I/P-0/P: 3k VAC //P-FG: 1.6k VAC 0/P-FG: 500 VAC
	WITHSTAND VOLTAGE PROTECTION CLASS	I/P-O/P: 3k VAC I/P-FG: 1.6k VAC 0/P-FG: 500 VAC IP 20 (EN/IEC 60529)
	ISOLATION RESISTANCE	100 MΩ (min) @ 500 Vdc
	EMI CONDUCTION & RADIATION	
	HARMONIC CURRENT	EN61000-6-4 EN61000-3-2
	EMS IMMUNITY	EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5,
		EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-3, EN 61000-4-3, EN 61000-4-5, EN 61000-6-2, EN 61000-6-4,
		The power supply is considered a component which will be installed into a final equipment. The final equipment must be
OTHERS		re-confirmed that it still meets EMC directives.
Concernance of the second	MTBF IEC 61709	> 500.000 h
	POLLUTION DEGREE	2
	CONNECTION TERMINAL BLOCK	2.5 mm Screw (24 ~ 14 AWG)
	DIMENSION	55x110x105 mm(2.16x4.33x4.13 in)
	PACKING	0.60 kg (1.3 lbs) each

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

#### **Mechanical Specification**



TB1 Terminal Pin. No Assignment

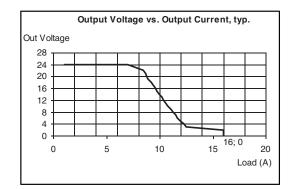
Pin No.	Assignment (2 phase)	
1	N/L	
2	L/L	
3	FG⊕	

TB2 Termina	l Pin. No	Assignment
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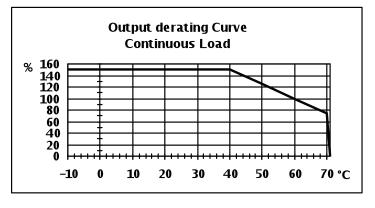
Pin No.	Assignment	
1,2	DC output -V	
3,4	DC output +V	
5,6	DC OK relay contacts	

## **DC OK Relay Contact**

Outputs are used for preventive function monitoring of the power supply. An electrically isolated signal contact is available. The signal contact closes when the output power is OK and opens when the output voltage falls below 20Vdc  $\pm$ 5%.



#### **Output Derating Curve**



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