PSB-120 Series (2 Phase) **Specifications**



Features:

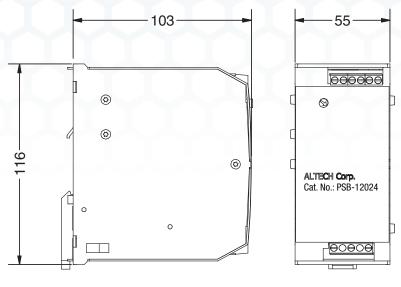
- Multiple overload/ short circuit protection modes
- Efficiency above 91%
- Small size
- DIN rail mountable
- Cooling by free air convection • UL508 (industrial control equipment) approved
- EN60950-1
- Built-in DC OK relay contact
- 3 year warranty

JTPUT	Cat. No.	PSB-12024
	DC VOLTAGE	24 V
	RATED CURRENT	5A
	CURRENT RANGE	0 - 5 A
	RATED POWER	120 W
	RIPPLE & NOISE (max)	100 mVp-p
	Thirt EE & NOISE (max)	
	VOLTAGE AD L DANCE	Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF & 47µF parallel capacito
	VOLTAGE ADJ. RANGE	22 V ~ 27 V
	VOLTAGE TOLERANCE	-0.03
		Tolerance: includes set up tolerance, line regulation and load regulation.
	START UP WITH STRONG LOAD	\leq 50,000 μ F
	CURRENT SHORT CIRCUIT Icc	12A
		Max 2 sec.: Hiccup mode
		Permanent: Continuous mode
	DISSIPATION POWER LOAD mas	11 W
	LINE REGULATION	± 0.5%
		± 1%
	LOAD REGULATION	
	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.
PUT	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 %
	(31)	
	AC CURRENT (115 – 230 Vac.)	1.8 ~ 0.9 A
	INRUSH CURRENT (Typ.)	< 11 A < 5 msec
	INTERNAL FUSE	Τ 4 Α
	EXTERNAL FUSE (recommended)	10 A (MCB curve B)
ROTECTION	LEAKAGE CURRENT	< 1.5 mA @ 230 Vac
	OVERLOAD	In (60°C) x 1.5 3 3 min.;
	OVENEOAD	Current max. Overload @ 4Vdc (permanent) Imax=In (60°C) x (1.8 \sim 2.2)
	OVER VOLTAGE	30 – 35 Vdc
	OVER TEMPERATURE	Yes. Shuts down output and automatically restarts when the temperature inside goes down
IVIRONMENT	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	95 % at 25°C, no condensation
	STORAGE TEMP	-40 up to +85 °C
	TEMP. COEFFICIENT	± 0.03% / C° (0 – 60 °C)
FETY & 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
	WITHSTAND VOLTAGE	I/P-0/P: 3k VAC I/P-FG: 1.6k VAC 0/P-FG: 500 VAC
	PROTECTION CLASS	IP 20 (EN/IEC 60529)
	ISOLATION RESISTANCE	100 MΩ (min) @ 500 Vdc
	EMI CONDUCTION & RADIATION	EN61000-6-4
Ĭ.	HARMONIC CURRENT	EN61000-3-2
	EMS IMMUNITY	EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5,
		EN 61000-4-6, EN61000-6-2,
		The power supply is considered a component which will be installed into a final equipment. The final equipment must be
HERS		re-confirmed that it still meets EMC directives.
	MTRE JEC 61700	> 500 000 b
	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	0.50 kg (1.1 lbs) each
	NOTE	All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C of ambient temperature.
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For the latest on Altech Power Supply specifications please visit www.altechcorp.com/power.

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Mechanical Specification



TB1 Terminal Pin. No Assignment

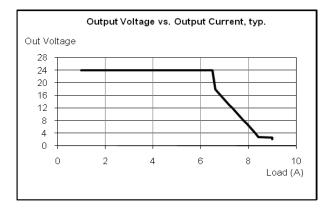
Pin No.	Assignment			
	(2 phase)			
1	N/L			
2	L/L			
3	FG⊕			

TB2	Terminal	Pin.	No	Assignment

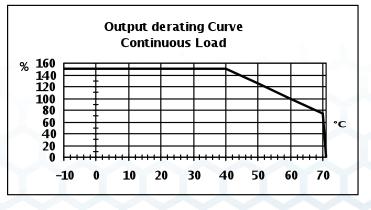
Assignment			
DC output -V			
DC output +V			
DC OK relay contacts			

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.

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Appendix

PSB Flex Series 28 3 Phase

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Altech: PSB-12024