

PSB-360 Series (2 Phase) **Specifications**









Features:

- Multiple overload/ short circuit protection modes
- Efficiency above 91%
- Easy parallel connection for more power
- 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-36024
DC VOLTAGE	24 V
RATED CURRENT	14 A
CURRENT RANGE	Refer to Output derating curve
RATED POWER	336 W
RIPPLE & NOISE (max)	100 mVp-p
	Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF & 47µF parallel capacit
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	≤ 50,000 µF
CURRENT SHORT CIRCUIT Icc	30 A
	Max 2 sec.: Hiccup mode
	Permanent: Continuous mode
DISSIPATION POWER LOAD mas	28 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.
HOLD UP TIME (Typ.)	Typ. 20 msec
VOLTAGE RANGE	187 ~ 264 V AC / 330 ~ 550V AC by switch

INPUT

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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.)	2.2 ~ 1.4 ~ 1.0 A
INRUSH CURRENT (Typ.)	< 17 A < 5 msec
INTERNAL FUSE	T 4 A
EXTERNAL FUSE (recommended)	16 A (MCB curve B)

PROTECTION

	LEAKAGE CURRENT	< 1.5 IIIA @ 500 Vac
Т	OVERLOAD	In (60°C) x 1.5 3 3 min.;

OVER VOLTAGE

OVER TEMPERATURE Yes. Shuts down output and automatically restarts when the temperature inside goes down

Current max. Overload @ 4Vdc (permanent) Imax=In (60°C) x (1.8 ~ 2.2)

SHORT CIRCUIT PROTECTION 1 Hiccup Mode / 2 Fold Back / 3 Restart After Main - Selectable

ENVIRONMENT

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)
VIBRATION	In according to IEC60068-2-6

SAFETY & EMC

SAFETY STANDARDS UL508 approved, IEC/EN 60950, EN 50178, IEC/EN 60950, EN60950-1, PELV EN 60204-1 WITHSTAND VOLTAGE

PROTECTION CLASS IP 20 (EN/IEC 60529) ISOLATION RESISTANCE 100 M Ω (min) @ 500 Vdc

EMI CONDUCTION & RADIATION EN61000-6-4 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, EN61000-6-4,

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.

OTHERS

MTBF IEC 61709 > 500.000 h POLLUTION DEGREE

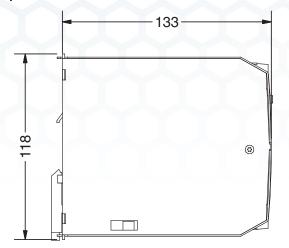
CONNECTION TERMINAL BLOCK 2.5 mm Screw (24 ~ 14 AWG) DIMENSION 72x115x135 mm (2.8x4.5x5.3 in)

PACKING 0.65 kg (1.3 lbs) each

NOTE All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C of ambient temperature.

Altech Corp.

Mechanical Specification





TB1 Terminal Pin. No Assignment

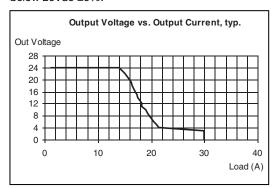
Pin No.	Assignment
	(2 phase)
1	N/L
2	L/L
3	FG⊕

TB1 Terminal Pin. No Assignment

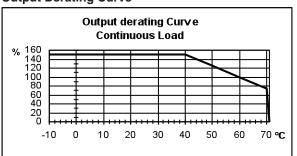
Pin No.	Assignment
1,2,3	DC output -V
	DC output +V
7,8	DC OK relay contacts

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 $\pm 5\%$.

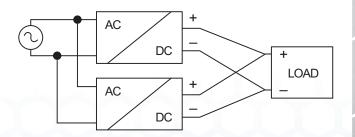


Output Derating Curve



Parallel Connection

A parallel connection with the same model power supply can be set up to increase the output power. The output has to be adjusted approximately to the same value (± 20mV) while applying a 1-2 A load to all devices before connecting them in parallel. In PSA-600xx, for more power, the position of the Easy Parallel jumper needs to be changed to enable a parallel connection. In this mode up to 4 power supplies can be put together in parallel.





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

osc Class 2 Series

PSA Flex Series

PSB Flex Series

PS-S Slim Series

PS Low Profile SEP

os Industrial Serie

PS C & W Series

CBI Type

CB Type Chargers

Accessories

Appendix