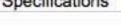
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## PSB-36024 (2 Phase) Specifications









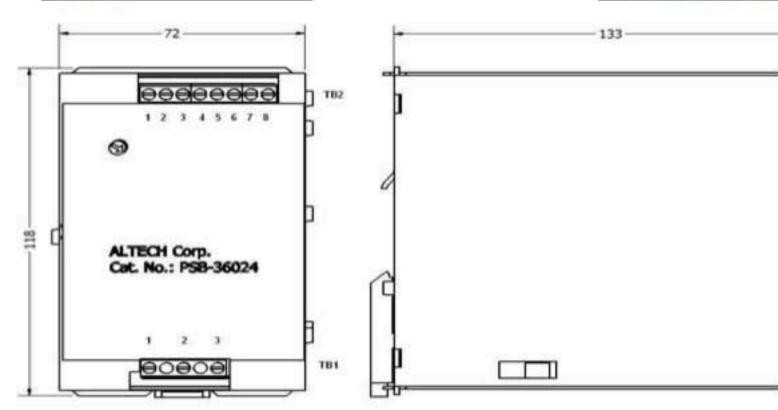
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EL		PSB-36024
CL .	DC VOLTAGE	24 V
	RATED CURRENT	14 A
	CURRENT RANGE	Refer to Output derating curve
	RATED POWER	336 W
	TOTAL OTTEN	100 mVp-p
		Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire termina
	RIPPLE & NOISE (max)	with a 0.1µF & 47µF parallel capacitor.
	VOLTAGE ADJ. RANGE	22 V – 27 V
	VOLTAGE TOLERANCE	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	2
	DISSIPATION POWER LOAD mas	28 W
	LINE REGULATION	± 0.5%
	LOAD REGULATION	±1%
		1 sec. (max)
	OCTUD DIOS TIVE	Length of set up time is measured at cold first start. Turning ON/OFF the power supply may it
OUTDUT	SETUP, RISE TIME	to increase of the set up time.
OUTPUT	HOLD UP TIME (Typ.)	Typ. 20 msec
	WOLTAGE DANIES	187 – 264 V AC / 330 – 550V AC by switch
	VOLTAGE RANGE	47. C2 He + CW
	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	T4A
	EXTERNAL FUSE (recommended)	16 A (MCB curve B)
INPUT	LEAKAGE CURRENT	< 1.5 mA @ 500 Vac
		In (60°C) x 1.5 ° 3 min.;  Current max. Overload = 4Vdc (permanent) Imax=In (60°C) x (1.8 - 2.2)
	0.521.012	Current max. Overload = 4vdc (permanent) imax=in (ou c) x (1.6 - 2.2)
	OVERLOAD	30 – 35 Vdc
	OVER VOLTAGE	30 – 33 vdc
	OVER VOLIAGE	Yes. Shuts down output and automatically restarts when the temperature inside goes down
	OVER TEMPERATURE	Too. Crisis Com Capat and actornationly results when the temperature motor goes com
	OVER TEMPERATURE	1 Hiccup Mode
	SHORT CIRCUIT PROTECTION	2 Fold Back
DOCTECTION	SHORT CIRCUIT PROTECTION	3 Restart After Main
PROTECTION	DC OK AKTIV SIGNAL (max.)	20 – 30 Vdc
THE TANK OF THE TANK	WORKING TEMP.	Colors of the graphs
FUNCTION		-25 up to +70 °C
FUNCTION	WORKING TEMP.	-25 up to +70 °C (>60°derating 2.5% °C)
FUNCTION	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(>60°derating 2.5% °C)
FUNCTION	HUMIDITY	(>60°derating 2.5% °C) 95 % at 25°C, no condensation
FUNCTION	HUMIDITY STORAGE TEMP	(>60°derating 2.5% °C)  95 % at 25°C, no condensation  -40 up to +85 °C
	HUMIDITY STORAGE TEMP TEMP. COEFFICIENT	(>60°derating 2.5% °C) 95 % at 25°C, no condensation -40 up to +85 °C ± 0.03% / C° (0 – 60 °C)
ENVIRONMENT	HUMIDITY STORAGE TEMP TEMP. COEFFICIENT VIBRATION	(>60°derating 2.5% °C)  95 % at 25°C, no condensation  -40 up to +85 °C  ± 0.03% / C° (0 – 60 °C)  In according to IEC60068-2-6
ENVIRONMENT SAFETY &	HUMIDITY STORAGE TEMP TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS	(>60°derating 2.5% °C)  95 % at 25°C, no condensation  -40 up to +85 °C  ± 0.03% / C° (0 – 60 °C)  In according to IEC60068-2-6  UL508 approved, IEC/EN 60950, EN 50178, IEC/EN 60950, EN60950-1, PELV EN 60204-1
ENVIRONMENT	HUMIDITY STORAGE TEMP TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	(>60°derating 2.5% °C)  95 % at 25°C, no condensation  -40 up to +85 °C  ± 0.03% / C° (0 – 60 °C)  In according to IEC60068-2-6  UL508 approved, IEC/EN 60950, EN 50178, IEC/EN 60950, EN60950-1, PELV EN 60204-1  I/P-O/P: 3k VAC I/P-FG: 1.6k VAC O/P-FG: 500 VAC
ENVIRONMENT SAFETY &	HUMIDITY STORAGE TEMP TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS	(>60°derating 2.5% °C)  95 % at 25°C, no condensation  -40 up to +85 °C  ± 0.03% / C° (0 – 60 °C)  In according to IEC60068-2-6  UL508 approved, IEC/EN 60950, EN 50178, IEC/EN 60950, EN60950-1, PELV EN 60204-1
ENVIRONMENT SAFETY &	HUMIDITY STORAGE TEMP TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE PROTECTION CLASS	(>60°derating 2.5% °C)  95 % at 25°C, no condensation  -40 up to +85 °C  ± 0.03% / C° (0 – 60 °C)  In according to IEC60068-2-6  UL508 approved, IEC/EN 60950, EN 50178, IEC/EN 60950, EN60950-1, PELV EN 60204-1  I/P-O/P: 3k VAC I/P-FG: 1.6k VAC O/P-FG: 500 VAC  IP 20
ENVIRONMENT SAFETY &	HUMIDITY STORAGE TEMP TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE PROTECTION CLASS (ENIEC 60529) ISOLATION RESISTANCE	(>60°derating 2.5% °C)  95 % at 25°C, no condensation  -40 up to +85 °C  ± 0.03% / C° (0 – 60 °C)  In according to IEC60068-2-6  UL508 approved, IEC/EN 60950, EN 50178, IEC/EN 60950, EN60950-1, PELV EN 60204-1  I/P-O/P: 3k VAC I/P-FG: 1.6k VAC O/P-FG: 500 VAC  IP 20  100 MΩ (min) @ 500 Vdc
ENVIRONMENT SAFETY &	HUMIDITY STORAGE TEMP TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE PROTECTION CLASS (EN/IEC 60529) ISOLATION RESISTANCE EMI CONDUCTION & RADIATION	(>60°derating 2.5% °C)  95 % at 25°C, no condensation  -40 up to +85 °C  ± 0.03% / C° (0 – 60 °C)  In according to IEC60068-2-6  UL508 approved, IEC/EN 60950, EN 50178, IEC/EN 60950, EN60950-1, PELV EN 60204-1  I/P-O/P: 3k VAC I/P-FG: 1.6k VAC O/P-FG: 500 VAC  IP 20  100 MΩ (min) @ 500 Vdc  EN61000-6-4
ENVIRONMENT SAFETY &	HUMIDITY STORAGE TEMP TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE PROTECTION CLASS (ENIEC 60529) ISOLATION RESISTANCE	(>60°derating 2.5% °C)  95 % at 25°C, no condensation  -40 up to +85 °C  ± 0.03% / C° (0 – 60 °C)  In according to IEC60068-2-6  UL508 approved, IEC/EN 60950, EN 50178, IEC/EN 60950, EN60950-1, PELV EN 60204-1  I/P-O/P: 3k VAC I/P-FG: 1.6k VAC O/P-FG: 500 VAC  IP 20  100 MΩ (min) @ 500 Vdc  EN61000-6-4  EN61000-3-2
ENVIRONMENT SAFETY &	HUMIDITY STORAGE TEMP TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE PROTECTION CLASS (EN/IEC 60529) ISOLATION RESISTANCE EMI CONDUCTION & RADIATION	(>60°derating 2.5% °C)  95 % at 25°C, no condensation  -40 up to +85 °C  ± 0.03% / C° (0 – 60 °C)  In according to IEC60068-2-6  UL508 approved, IEC/EN 60950, EN 50178, IEC/EN 60950, EN60950-1, PELV EN 60204-1  I/P-O/P: 3k VAC I/P-FG: 1.6k VAC O/P-FG: 500 VAC  IP 20  100 MΩ (min) @ 500 Vdc  EN61000-6-4
ENVIRONMENT SAFETY &	HUMIDITY STORAGE TEMP TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE PROTECTION CLASS (EN/IEC 60529) ISOLATION RESISTANCE EMI CONDUCTION & RADIATION	(>60°derating 2.5% °C) 95 % at 25°C, no condensation -40 up to +85 °C ± 0.03% / C° (0 – 60 °C) In according to IEC60068-2-6 UL508 approved, IEC/EN 60950, EN 50178, IEC/EN 60950, EN60950-1, PELV EN 60204-1 I/P-O/P: 3k VAC I/P-FG: 1.6k VAC O/P-FG: 500 VAC IP 20  100 MΩ (min) @ 500 Vdc EN61000-6-4 EN61000-3-2 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,
ENVIRONMENT SAFETY &	HUMIDITY STORAGE TEMP TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE PROTECTION CLASS (EN/IEC 60529) ISOLATION RESISTANCE EMI CONDUCTION & RADIATION	(>60°derating 2.5% °C) 95 % at 25°C, no condensation -40 up to +85 °C ± 0.03% / C° (0 – 60 °C) In according to IEC60068-2-6 UL508 approved, IEC/EN 60950, EN 50178, IEC/EN 60950, EN60950-1, PELV EN 60204-1 I/P-O/P: 3k VAC I/P-FG: 1.6k VAC O/P-FG: 500 VAC IP 20  100 MΩ (min) @ 500 Vdc EN61000-6-4 EN61000-3-2 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,
ENVIRONMENT SAFETY &	HUMIDITY STORAGE TEMP TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE PROTECTION CLASS (ENIEC 60529) ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT	(>60°derating 2.5% °C)  95 % at 25°C, no condensation  -40 up to +85 °C  ± 0.03% / C° (0 – 60 °C)  In according to IEC60068-2-6  UL508 approved, IEC/EN 60950, EN 50178, IEC/EN 60950, EN60950-1, PELV EN 60204-1  I/P-O/P: 3k VAC I/P-FG: 1.6k VAC O/P-FG: 500 VAC  IP 20  100 MΩ (min) @ 500 Vdc  EN61000-6-4  EN61000-3-2  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. T
ENVIRONMENT SAFETY &	HUMIDITY STORAGE TEMP TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE PROTECTION CLASS (ENIEC 60529) ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT  EMS IMMUNITY MTBF IEC 61709	(>60°derating 2.5% °C)  95 % at 25°C, no condensation  40 up to +85 °C  ± 0.03% / C° (0 – 60 °C)  In according to IEC60068-2-6  UL508 approved, IEC/EN 60950, EN 50178, IEC/EN 60950, EN60950-1, PELV EN 60204-1  I/P-O/P: 3k VAC I/P-FG: 1.6k VAC O/P-FG: 500 VAC  IP 20  100 MΩ (min) @ 500 Vdc  EN61000-6-4  EN61000-3-2  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. T final equipment must be re-confirmed that is still meets EMC directives.
ENVIRONMENT SAFETY &	HUMIDITY STORAGE TEMP TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE PROTECTION CLASS (ENIEC 60529) ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT  EMS IMMUNITY MTBF IEC 61709 POLLUTION DEGREE	(>60°derating 2.5% °C)  95 % at 25°C, no condensation  -40 up to +85 °C  ± 0.03% / C° (0 – 60 °C)  In according to IEC60068-2-6  UL508 approved, IEC/EN 60950, EN 50178, IEC/EN 60950, EN60950-1, PELV EN 60204-1  I/P-O/P: 3k VAC I/P-FG: 1.6k VAC O/P-FG: 500 VAC  IP 20  100 MΩ (min) @ 500 Vdc  EN61000-6-4  EN61000-3-2  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. T final equipment must be re-confirmed that is still meets EMC directives.  > 500.000 h
ENVIRONMENT SAFETY &	HUMIDITY STORAGE TEMP TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE PROTECTION CLASS (ENIEC 60529) ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT  EMS IMMUNITY MTBF IEC 61709 POLLUTION DEGREE CONNECTION TERMINAL BLOCK	(>60°derating 2.5% °C)  95 % at 25°C, no condensation  40 up to +85 °C  ± 0.03% / C° (0 – 60 °C)  In according to IEC60068-2-6  UL508 approved, IEC/EN 60950, EN 50178, IEC/EN 60950, EN60950-1, PELV EN 60204-1  I/P-O/P: 3k VAC
ENVIRONMENT SAFETY &	HUMIDITY STORAGE TEMP TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE PROTECTION CLASS (ENIEC 60529) ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT  EMS IMMUNITY MTBF IEC 61709 POLLUTION DEGREE CONNECTION TERMINAL BLOCK DIMENSION	(>60°derating 2.5% °C)  95 % at 25°C, no condensation  40 up to +85 °C  ± 0.03% / C° (0 – 60 °C)  In according to IEC60068-2-6  UL508 approved, IEC/EN 60950, EN 50178, IEC/EN 60950, EN60950-1, PELV EN 60204-1  I/P-O/P: 3k VAC
ENVIRONMENT SAFETY &	HUMIDITY STORAGE TEMP TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE PROTECTION CLASS (ENIEC 60529) ISOLATION RESISTANCE EMI CONDUCTION & RADIATION HARMONIC CURRENT  EMS IMMUNITY MTBF IEC 61709 POLLUTION DEGREE CONNECTION TERMINAL BLOCK	(>60°derating 2.5% °C)  95 % at 25°C, no condensation  40 up to +85 °C  ± 0.03% / C° (0 – 60 °C)  In according to IEC60068-2-6  UL508 approved, IEC/EN 60950, EN 50178, IEC/EN 60950, EN60950-1, PELV EN 60204-1  I/P-O/P: 3k VAC

Terminal Pin, No Assign, (TB1)			
Pin No.	Assignment PSB-36024 (2 phase)		
-1	N/L		
2	L/L		
3	FG Ø		

	Terminal Pin. No Assign. (TB2)			
	Pin No.	Assignment		
1		DC output -V		
	4,5,6	DC output +V		
	7,8	DC OK relay contacts		

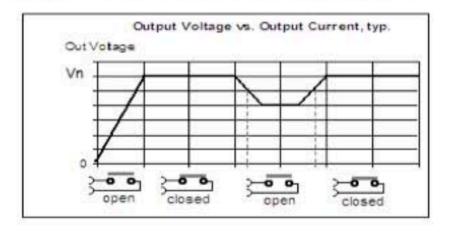
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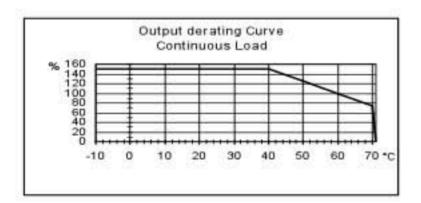
## DC OK Relay Contact

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 ±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 PSB-360xx, 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.

