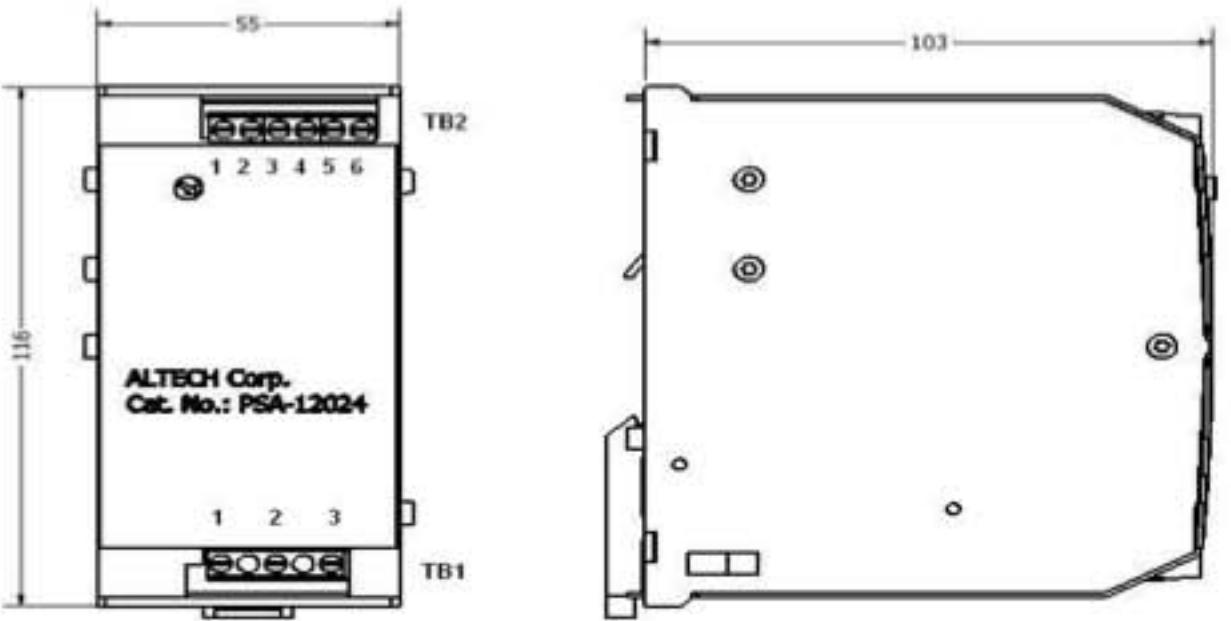


		PSA-12024 (1 Phase) Specifications	Features: • Multiple overload/ short circuit protection modes • Efficiency above 91% • Small size • DIN rail mountable • Cooling by free air convection • UL508 (industrial control equipment) approved • EN60950-1 • Built-in DC OK relay contact • 3 year warranty
			
MODEL		PSA-12024	
OUTPUT	DC VOLTAGE	24 V	
	RATED CURRENT	5A	
	CURRENT RANGE	Refer to Output derating curve	
	RATED POWER	120 W	
		100 mVp-p	
	RIPPLE & NOISE (max)	Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF & 47µF parallel capacitor.	
	VOLTAGE ADJ. RANGE	22 V – 27 V	
		-0.03	
	VOLTAGE TOLERANCE	Tolerance: includes set up tolerance, line regulation and load regulation.	
	START UP WITH STRONG LOAD	≤ 50,000 µF	
	CURRENT SHORT CIRCUIT I _{cc}	12A	
	Max 2 sec.: Hiccup mode		
	Permanent: Continuous mode		
	DISSIPATION POWER LOAD mas	11 W	
	LINE REGULATION	± 0.5%	
INPUT	LOAD REGULATION	± 1%	
		1 sec. (max)	
	SETUP, RISE TIME	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	
		90 – 135V AC / 180 – 264V AC by switch	
	VOLTAGE RANGE		
	FREQUENCY RANGE	47 – 63 Hz +6%	
	EFFICIENCY (Typ.)	>91 %	
	AC CURRENT (115 – 230 Vac.)	1.8 – 0.9 A	
	INRUSH CURRENT (Typ.)	< 11 A < 5 msec	
	INTERNAL FUSE	T 4 A	
	EXTERNAL FUSE (recommended)	10 A (MCB curve B)	
	LEAKAGE CURRENT	< 1.5 mA @ 230 Vac	
		In (60°C) x 1.5 * 3 min.;	
		Current max. Overload ≡ 4Vdc (permanent) I _{max} =In (60°C) x (1.8 - 2.2)	
PROTECTION FUNCTION	OVERLOAD		
		30 – 35 Vdc	
	OVER VOLTAGE		
	OVER TEMPERATURE	Yes. Shuts down output and automatically restarts when the temperature inside goes down	
		1 Hiccup Mode	
	SHORT CIRCUIT PROTECTION	2 Fold Back	
		3 Restart After Main	
	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)	
ENVIRONMENT	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-O/P: 3k VAC I/P-FG: 1.6k VAC O/P-FG: 500 VAC	
	PROTECTION CLASS	IP 20	
	(EN/IEC 60529)		
	ISOLATION RESISTANCE	100 MΩ (min) @ 500 Vdc	
	EMI CONDUCTION & RADIATION	EN61000-6-4	
	HARMONIC CURRENT	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,	
	EMS IMMUNITY	The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that is still meets EMC directives.	
	MTBF IEC 61709	> 500.000 h	
	POLLUTION DEGREE	2	
	CONNECTION TERMINAL BLOCK	2.5 mm Screw (24 – 14 AWG)	
OTHERS	DIMENSION	55x110x105 mm (2.16x4.33x4.13 in)	
	PACKING	0.50 kg (1.1 lbs) per 1 pcs	
		All parameters NOT specially mentioned are measured at 230V AC input, rated load and 25°C of ambient temperature.	
	NOTE		

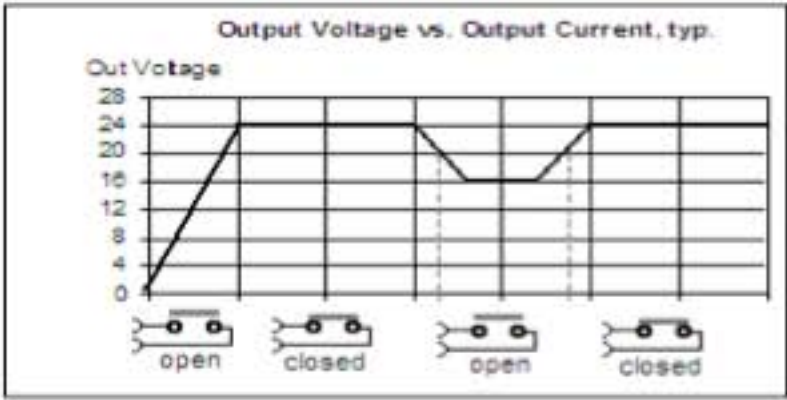
Terminal Pin. No Assign. (TB1)		
Pin No.	Assignment PSA-12024 (1 phase)	Assignment PSB-12024 (2 phase)
1	N	N/L
2	L	L/L
3	FG 	FG 

Terminal Pin. No Assign. (TB2)	
Pin No.	Assignment
1,2	DC output -V
3,4	DC output +V
5,6	DC OK relay contacts

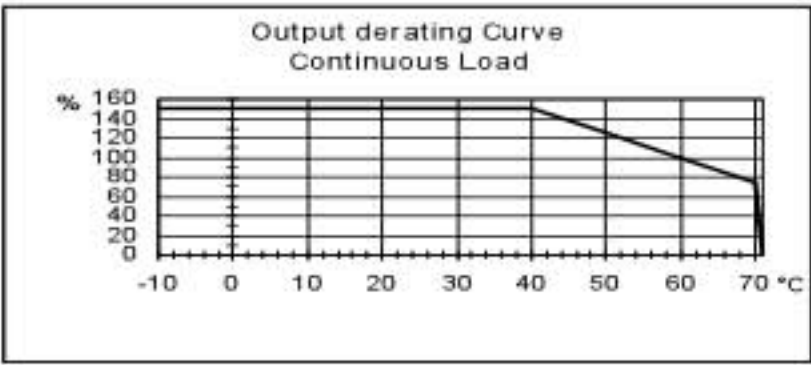


DC OK Relay Contact

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



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 ($\pm 20\text{mV}$) while applying a 1-2 A load to all devices before connecting them in parallel.

