

PSA-360 Series (1 Phase) **Specifications**



LEAKAGE CURRENT

OVERLOAD









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.	PSA-36024
DC VOLTAGE	24 V
RATED CURRENT	14 A
CURRENT RANGE	0 ~ 14 A
rated power	336 W
RIPPLE & NOISE (max)	80 mVp-p
	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 (DC)	22 ~ 27 V
VOLTAGE TOLERANCE	-0.03
	Tolerance: includes set up tolerance, line regulation and load regulation.
START UP WITH STRONG LOAD	≤ 50,000 μF
SHORT CIRCUIT CURRENT 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	90 ~ 135V AC / 180 ~ 264V AC switch select
FREQUENCY RANGE	47 ~ 63 Hz
EFFICIENCY (Typ.)	>91 %
AC CURRENT (115 – 230 Vac.)	3.3 ~ 2.2 A
INRUSH CURRENT (Typ.)	< 16 A < 5 msec
INTERNAL FUSE	6.3 A (T)
EXTERNAL FUSE (recommended)	16 A (MCB curve B)
ETUP, RISE TIME OLD UP TIME (Typ.) OLTAGE RANGE EQUENCY RANGE FICIENCY (Typ.) C CURRENT (115 – 230 Vac.) RUSH CURRENT (Typ.) TERNAL FUSE	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. Typ. 20 msec $90 \sim 135 \text{V AC} / 180 \sim 264 \text{V AC} \text{ switch select}$ $47 \sim 63 \text{ Hz}$ $>91 \%$ $3.3 \sim 2.2 \text{ A}$ $< 16 \text{ A} < 5 \text{ msec}$ $6.3 \text{ A} \text{ (T)}$

INPUT

PROTECTION

ENVIRONMENT

SAFETY & EMC

OTHERS

DC OK AKTIV SIGNAL (max.) 20 \sim 30 Vdc WORKING TEMP25 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 \pm 0.03% / C° (0 \sim 60 °C) MOUNTING In according to IEC60068-2-6	OVER VOLTAGE OVER TEMPERATURE SHORT CIRCUIT PROTECTION	14 ~ 17 Vdc Yes. Shuts down output and automatical 1 Hiccup Mode / 2 Fold Back / 3 Restart	•	
STORAGE TEMP -40 up to +85 °C TEMP. COEFFICIENT \pm 0.03% / C° (0 ~ 60 °C)	` '	-25 up to +70 °C		
TEMP. COEFFICIENT $\pm 0.03\%$ / C° (0 ~ 60 °C)	HUMIDITY	95 % at 25°C, no condensation		
	STORAGE TEMP	-40 up to +85 °C		
MOUNTING In according to IEC60068-2-6	TEMP. COEFFICIENT	\pm 0.03% / C° (0 ~ 60 °C)		
	MOUNTING	In according to IEC60068-2-6		

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

SAFETY STANDARDS

IEC/EN 60950, EN 50178, IEC/EN 60950, EN60950-1, PELV EN 60204-1

WITHSTAND VOLTAGE

< 1.5 mA @ 230 Vac

In (60°C) x 1.5 3 (3 min.)

PROTECTION CLASS IP 20 (EN/IEC 60529) ISOLATION RESISTANCE $100 \text{ M}\Omega$ (min) @ 500 Vdc

EMI CONDUCTION & RADIATION EN61000-6-4 HARMONIC CURRENT

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.

MTBF IEC 61709 > 500.000 h 2

POLLUTION DEGREE

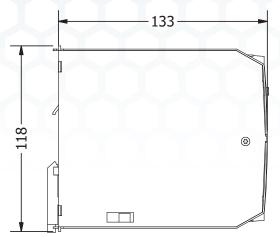
CONNECTION TERMINAL BLOCK 2.5 mm Screw terminal (24 ~ 14 AWG) DIMENSION 72x115x135 mm (2.8x4.5x5.3 in)

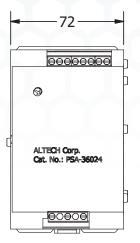
PACKING 0.65 kg (1.4 lbs) each

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



Mechanical Specification





TB1 Terminal Pin. No Assignment

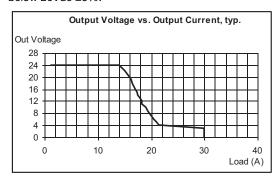
Pin No.	Assignment (1 phase)
1	N
2	L
	FG ⊕
	10 (6)

TB1 Terminal Pin. No Assignment

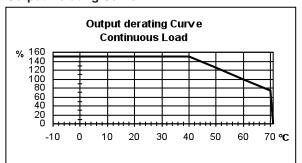
Pin No.	Assignment
1,2,3	DC output -V
4,5,6	DC output +V
7,8	DC OK relay contacts

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 $\pm 5\%$.

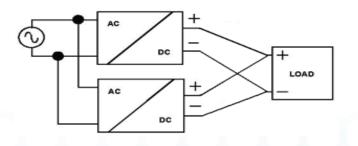


Output Derating Curve



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-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.





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

SC Class 2 Series

PSA Flex Serio

PSB FIEX Series

PS-S Slim Series

OS LOW Profile Serve

os Industrial Series

PSC & W Series

CBI Type

CB Type Chargers

Accessories

Appendix