Milath Corp. Mi	
MODEL	
OUTPUT	

INPUT

PROTECTION **FUNCTION**

ENVIRONMENT

SAFETY &

EMC

OTHERS

Spec	ifica	tions			
6	HS	(UL) _{us}	•	
DC VOL					
RATED					
CURRE					
RATED	POW	ER			

OVER VOLTAGE

WORKING TEMP.

TEMP. COEFFICIENT

SAFETY STANDARDS

WITHSTAND VOLTAGE

PROTECTION CLASS

ISOLATION RESISTANCE

HARMONIC CURRENT

EMS IMMUNITY

DIMENSION

PACKING

NOTE

MTBF IEC 61709 POLLUTION DEGREE

EMI CONDUCTION & RADIATION

CONNECTION TERMINAL BLOCK

HUMIDITY STORAGE TEMP

VIBRATION

(EN/IEC 60529)

OVER TEMPERATURE

SHORT CIRCUIT PROTECTION

DC OK AKTIV SIGNAL (max.)

PSA-12024 (1 Phase)







 DIN rail mountable Cooling by free air convection

Features:

Small size

Efficiency above 91%

 UL508 (industrial control equipment) approved EN60950-1 Built-in DC OK relay contact 3 year warranty

Multiple overload/ short circuit protection modes

	PSA-12024
	A second of the
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 Icc	12A
Max 2 sec.; Hiccup mode	
Permanent: Continuous mode	
DISSIPATION POWER LOAD mas	11 W
LINE REGULATION	± 0.5%
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
	200 (100) (100 (100) (100) (100)

	10
	10 ≤
	12
×	11
	±
	±
	1
	Lo in Ty 90
	Ty
	90
	4

12A
11 W
± 0.5%
± 1%
1 sec. (max)
Length of set up time is measured at cold increase of the set up time.
Typ. 20 msec
90 - 135V AC / 180 - 264V AC by switch
47 – 63 Hz +-6%
>91 %
1.8 - 0.9 A
c 11 A c 5 mooc

LOAD REGULATION	
SETUP, RISE TIME	
HOLD UP TIME (Typ.)	
24.0000 2000 - 0.0000 - 0.000	
VOLTAGE RANGE	
FREQUENCY RANGE	
EFFICIENCY (Typ.)	
AC CURRENT (115 – 230 Vac.)	
INRUSH CURRENT (Typ.)	-
INTERNAL FUSE	
EXTERNAL FUSE (recommended)	
LEAKAGE CURRENT	
OVERLOAD	

1.8 - 0.9 A
< 11 A < 5 msec
T4A
10 A (MCB curve B)
< 1.5 mA @ 230 Va
In (60°C) x 1.5 ° Current max. Overl
30 – 35 Vdc
Vac Shute down or

Vertical transfer of the control of	
In (60°C) x 1.5 3 3 min.;	
Current max. Overload	- 2.2)
30 – 35 Vdc	
Yes. Shuts down output and automatically restarts when the temper	rature i
1 Hiccup Mode	
2 Fold Back	
2 Destart After Main	

	Yes. Shuts down output a			
3	1 Hiccup Mode			
200	2 Fold Back			
1	3 Restart After Main			
	20 - 30 Vdc			
A COLUMN TO A COLU	-25 up to +70 °C (>60°derating 2.5% °C)			

> 500.000 h

2.5 mm Screw (24 - 14 AWG)

0.50 kg (1.1 lbs) per 1 pcs

ambient temperature.

55x110x105 mm (2.16x4.33x4.13 in)

Yes. Shuts down output and automatically restarts when the temperature inside goes down
1 Hiccup Mode
2 Fold Back
3 Restart After Main
20 - 30 Vdc
-25 up to +70 °C (>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,
The power supply is considered a component which will be installed into a final equipment. The final

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

equipment must be re-confirmed that is still meets EMC directives.

-0.03

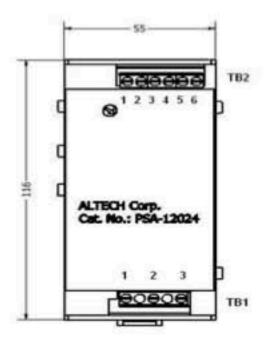
- RATED CURR RATED RIPPLE & NOISE (max) VOLTAGE ADJ. RANGE
- DC VO

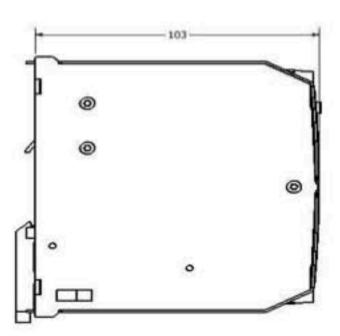
Terminal Pin. No Assign. (TB1)

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		
	DC output -V DC output +V		

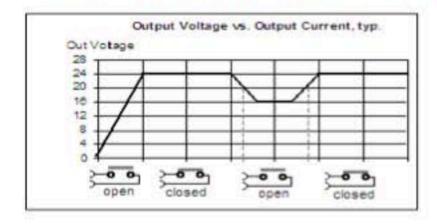
DC OK relay contacts



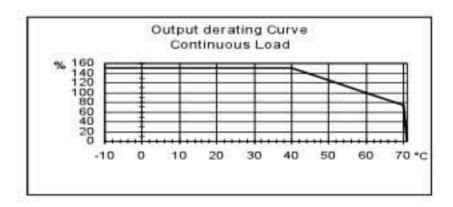


DC OK Relay Contact

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 ±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.

