Product datasheet Characteristics

ABL8MEM24006

regulated SMPS - 1 or 2-phase - 100..240 V AC - 24 V - 0.6 A



Main

IVICIII	
Range of product	Phaseo
Product or component type	Power supply
Power supply type	Regulated switch mode
Input voltage	100240 V AC phase to phase, terminal(s): L1-L2 100240 V AC single phase, terminal(s): N-L1 120250 V DC
Output voltage	24 V DC
Rated power in W	15 W
Input protection type	Integrated fuse (not interchangeable)
Power supply output current	0.6 A
Output protection type	Against short-circuits Thermal
Ambient air temperature for operation	-2555 °C without 5570 °C with
	•

Complementary

Complementary		75
Input voltage limits	85264 V	ŭ 2
Network frequency	4763 Hz	
Inrush current	<= 20 A	5 <u>-</u>
Cos phi	> 0.5	, a
Efficiency	> 80 %	
Output voltage limits	22.228.8 V adjustable	ri- d
Power dissipation in W	3.8 W	<u>9</u>
Current consumption	0.25 A at 240 V 0.4 A at 100 V	ritting
Line and load regulation	+/- 3 %	
Residual ripple	250 mV	
Holding time	>= 10 ms at 100 V >= 150 ms at 230 V	ie de la companya de

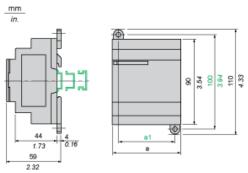
Connections - terminals	Screw type terminals for input connection, connection capacity: 2 x 0.142 x 2.5 mm² AWG 26AWG 14
	Screw type terminals for output connection, connection capacity: $2 \times 0.142 \times 2.5 \text{ mm}^2$ AWG 26AWG 14
Marking	CE
Mounting support	35 x 7.5 mm symmetrical DIN rail Panel 2 screws, diameter : 4 mm 35 x 15 mm symmetrical DIN rail
Operating position	Vertical
Operating altitude	2000 m
Output coupling	Parallel Series
Name of test	Harmonic current emission conforming to EN/IEC 61000-3-2 Conducted emissions on the power line conforming to EN 55022 Class B Electrostatic discharges conforming to EN/IEC 61000-4-2 Emission conforming to EN 50081-1 Induced electromagnetic field conforming to EN/IEC 61000-4-6 Primary outage conforming to IEC 61000-4-11 Radiated electromagnetic field conforming to EN/IEC 61000-4-3 Radiated emissions conforming to EN 55022 Class B Rapid transient conforming to IEC 61000-4-4 Surge conforming to EN/IEC 61000-4-5
Status LED	1 LED green for output voltage
Depth	59 mm
Height	100 mm
Width	36 mm
Product weight	0.1 kg
Environment	
Product certifications	KC EAC TUV 60950-1 RCM
Standards	UL 508 CSA C22.2 No 60950-1
Environmental characteristic	EMC conforming to EN 55022 Class B EMC conforming to EN 61000-6-3 EMC conforming to EN/IEC 61000-6-2 EMC conforming to EN/IEC 61204-3 Safety conforming to EN/IEC 60950-1
	Safety conforming to SELV
IP degree of protection	Safety conforming to SELV IP20 conforming to EN/IEC 60529
IP degree of protection Ambient air temperature for storage	· · · · · ·
	IP20 conforming to EN/IEC 60529
Ambient air temperature for storage	IP20 conforming to EN/IEC 60529 -4070 °C 090 % during operation
Ambient air temperature for storage Relative humidity	IP20 conforming to EN/IEC 60529 -4070 °C 090 % during operation 095 % in storage
Ambient air temperature for storage Relative humidity Overvoltage category	IP20 conforming to EN/IEC 60529 -4070 °C 090 % during operation 095 % in storage Class II conforming to VDE 0106-1

Product datasheet Dimensions Drawings

ABL8MEM24006

Regulated Switch Mode Power Supplies

Dimensions



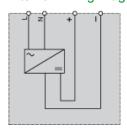
	a in mm	a in in.	a1 in mm	a1 in in.
ABL8MEM05040	54	2.12	42	1.65
ABL8MEM12020	54	2.12	42	1.65
ABL8MEM24003	36	1.41	24	0.94
ABL8MEM24006	36	1.41	24	0.94
ABL8MEM24012	54	2.12	42	1.65
ABL7RM24025	74	2.91	60	2.36

Product datasheet Connections and Schema

ABL8MEM24006

Regulated Switch Mode Power Supply

Internal Wiring Diagram

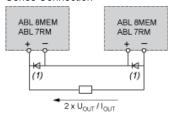


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Regulated Switch Mode Power Supplies

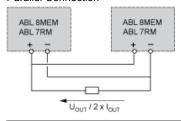
Series or Parallel Connection

Series Connection



(1) Two Shottky diodes Imin = power supply In and Vmin = 50 V

Parallel Connection



Family	Series	Parallel
ABL 7RM/8MEM	2 products max.	2 products max.

Series or parallel connection is only recommended for products with identical references.

Product datasheet Performance Curves

ABL8MEM24006

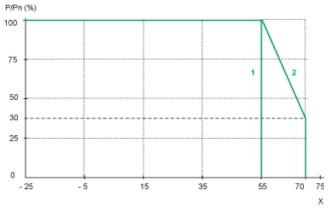
Regulated Switch Mode Power Supplies

Derating

The ambient temperature is a determining factor that limits the power an electronic power supply can deliver continuously. If the temperature around the electronic components is too high, their life will be significantly reduced.

The nominal ambient temperature for the Modular range of Phaseo power supplies is 55°C. Above this temperature, derating is necessary up to a maximum temperature of 70°C (except for the ABL7RM24025 model).

The graph below shows the power as a percentage of the nominal power that the power supply can deliver continuously, depending on the ambient temperature.



- X Maximum operating temperature (°C)
- (1) With an ABL7RM24025
- (2) With an ABL8MEM•••••