# Product data sheet Characteristics

## **ABL8MEM24006**

Regulated Switch Power Supply, 1 or 2-phase, 100..240V AC, 24V, 0.6 A





### Commercial status

Discontinued on: 20 December 2020

End-of-service on: 20 December 2020

#### Main

Range of product	Modicon Power Supply	, 0 1
Product or component type	Power supply	
Power supply type	Regulated switch mode	
Nominal input voltage	100240 V AC phase to phase, terminal(s): L1-L2 100240 V AC single phase, terminal(s): N-L1 120250 V DC	ity of these
Input voltage limits	85264 V AC	
Rated power in W	15 W	
Output voltage	24 V DC	
Power supply output current	0.6 A	

### Complementary

Input protection type	Integrated fuse (not interchangeable)	
Inrush current	20 A	
Power factor	0.5 at 24 V DC	:
Efficiency	80 %	
Output voltage adjustment	22.228.8 V adjustable	
Power dissipation in W	3.8 W	
Current consumption	0.25 A 240 V AC 0.4 A 100 V AC	
Residual ripple	250 mV	
Output protection type	Thermal Against short-circuits	
Connections - terminals	Screw type terminals: 2 x 0.142 x 2.5 mm², (AWG 26AWG 14) for input connection Screw type terminals: 2 x 0.142 x 2.5 mm², (AWG 26AWG 14) for output connection	
Status LED	1 LED (green)output voltage	
Depth	59 mm	
Height	100 mm	

Width	36 mm
Product weight	0.1 kg
Output coupling	Parallel Series
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
Supply	SELV conforming to EN/IEC 60950-1 SELV conforming to EN/IEC 60204-1 SELV conforming to IEC 60364-4-41

### Environment

Standards	UL 508 CSA C22.2 No 60950-1 EN/IEC 62368-1
Product certifications	TUV 60950-1 EAC KC RCM CCSAus CSA 22-2 No 950 CULus 508
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
Operating altitude	2000 m
IP degree of protection	IP20 conforming to EN/IEC 60529
Ambient air temperature for operation	-2555 °C (without) 5570 °C (with derating factor)
Ambient air temperature for storage	-4070 °C
Relative humidity	090 % during operation 095 % in storage
Electrical energy source class conforming to IEC 62368-1	ES1
Dielectric strength	3000 V between input and output

### Packing Units

Package 1 Weight	0.130 kg	
Package 1 Height	0.500 dm	
Package 1 width	0.730 dm	
Package 1 Length	1.000 dm	

### Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	
PVC free	Yes	

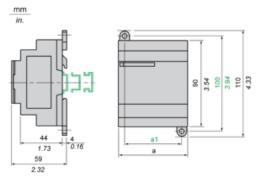
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov		
Contractual warranty			
Warranty	18 months		

# Product data sheet Dimensions Drawings

# **ABL8MEM24006**

### Regulated Switch Mode Power Supplies

### Dimensions



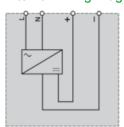
	a in mm	a in in.	a1 in mm	a1 in in.
ABL8MEM05040	54	2.12	42	1.65
ABL8MEM12020	54	2.12	42	1.65
ABL8MEM24003	36	1.41	24	0.94
ABL8MEM24006	36	1.41	24	0.94
ABL8MEM24012	54	2.12	42	1.65
ABL7RM24025	74	2.91	60	2.36

## Product data sheet Connections and Schema

# **ABL8MEM24006**

Regulated Switch Mode Power Supply

Internal Wiring Diagram



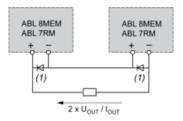
### Product data sheet Connections and Schema

# **ABL8MEM24006**

### Regulated Switch Mode Power Supplies

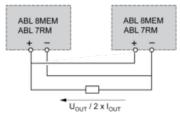
### Series or Parallel Connection

#### 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.

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

### **ABL8MEM24006**

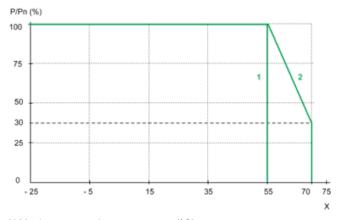
### Regulated Switch Mode Power Supplies

### 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 ....

### ABL8MEM24006 is replaced by:



### Regulated power supply ABLM1A24006

Regulated Power Supply, 100-240V AC, 24V 0.6 A, single phase, Modular Qty 1