

(!) Discontinued

regulated power supply, Phaseo, 100 to 240 V, 24 V, 1.2 A

ABL8MEM24012

! Discontinued on: Dec 1, 2020

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Modicon Power Supply Power supply	
Product or Component Type		
Power supply type	Regulated switch mode	
Nominal input voltage	100240 V AC phase to phase L1-L2 100240 V AC single phase N-L1 120250 V DC	
Kw Rating	30 W	
Output voltage	24 V DC	
Power supply output current	1.2 A	

Complementary

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Efficiency at full load	85264 V AC		
Input protection type	Integrated fuse (not interchangeable)		
Inrush current	20 A		
Power factor	0.5 at 24 V DC		
Efficiency	82 %		
Output voltage adjustment	22.228.8 V adjustable		
Power dissipation in W	6.6 W		
Current consumption	0.4 A 240 V AC 0.65 A 100 V AC		
Residual ripple	250 mV		
Output protection type	Against short-circuits		
Connections - terminals	Screw type terminals 2 x 0.142 x 2.5 mm², AWG 26AWG 14) input connection Screw type terminals 4 x 0.144 x 2.5 mm², AWG 26AWG 14) output connection		
Status LED	1 LED (Green) output voltage		
Depth	2.3 in (59 mm)		
Height	3.9 in (100 mm)		
Width	2.1 in (54 mm)		
Net Weight	0.430 lb(US) (0.195 kg)		
Output coupling	Parallel Series		
Marking	CE		

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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 IEC 60950-1 SELV IEC 60204-1 SELV IEC 60364-4-41	
Dielectric strength	3000 V with between input and output	

Environment

Standards	UL 508	
	CSA C22.2 No 60950-1	
	EN/IEC 62368-1	
Product certifications	TUV 60950-1	
	EAC	
	RCM	
	KC	
	CCSAus	
	CSA 22-2 No 950	
	CULus 508	
Environmental characteristic	EMC conforming to EN 55022 Class B	
	EMC conforming to IEC 61000-6-3	
	EMC conforming to IEC 61000-6-2	
	EMC conforming to EN/IEC 61204-3	
	Safety conforming to IEC 60950-1	
Operating altitude	6561.68 ft (2000 m)	
IP degree of protection	IP20 conforming to IEC 60529	
Ambient air temperature for operation	-13131 °F (-2555 °C) without derating mounting position A < 6561.68 ft (2000 m) 131158 °F (5570 °C) with derating factor mounting position A < 6561.68 ft (2000 m)	

Ordering and shipping details

Category	US1CP1222525
Discount Schedule	CP12
GTIN	00785901551508
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Contractual warranty

Warranty	18 months
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Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Environmental Disclosure

Product Environmental Profile

Use Better

EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	Fe64e454-324e-4d95-961c-5ccceb461cf0
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
PVC free	Yes

Use Again

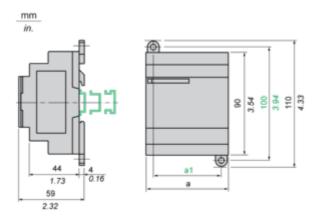
○ Repack and remanufacture	
Circularity Profile	End of Life Information

ABL8MEM24012

Dimensions Drawings

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

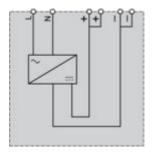
Product data sheet

ABL8MEM24012

Connections and Schema

Regulated Switch Mode Power Supply

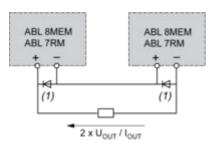
Internal Wiring Diagram



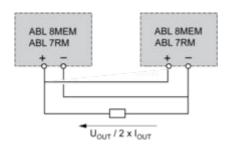
Regulated Switch Mode Power Supplies

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.

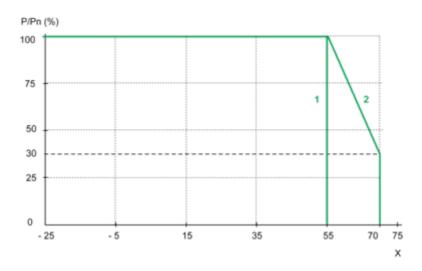
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Performance Curves

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*****