Product data sheet

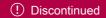




Regulated switch power supply, modicon power supply, 1 or 2 phase, 100...240V AC, 12V, 2A

ABL8MEM12020

Discontinued on: Feb 17, 2021



Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range Of Product	Modicon Power Supply
Product Or Component Type	Power supply
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	25 W
Output Voltage	1215 V DC
Power Supply Output Current	2.1 A

Complementary

Efficiency At Full Load	85264 V AC		
Input Protection Type	Integrated fuse (not interchangeable)		
Inrush Current	20 A		
Power Factor	0.5 at 1215 V DC		
Efficiency	80 %		
Output Voltage Adjustment	11.415 V adjustable		
Power Dissipation In W	6.2 W		
Current Consumption	0.35 A 240 V AC 0.6 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	2.32 in (59 mm)		
Height	3.94 in (100 mm)		
Width	2.13 in (54 mm)		
Net Weight	0.43 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	35×7.5 mm symmetrical DIN rail 35×15 mm symmetrical DIN rail panel 2 screws, diameter : 4 mm
Operating Position	Vertical
Supply	SELV EN/IEC 60950-1 SELV EN/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	EAC	
Froduct Certifications	RCM	
	KC	
	TUV 60950-1	
	CCSAus	
	CSA 22-2 No 950	
	CULus 508	
Environmental Characteristic	EMC EN 55022 Class B	
	EMC EN 61000-6-3	
	EMC EN/IEC 61000-6-2	
	EMC EN/IEC 61204-3	
	Safety EN/IEC 60950-1	
	,	
Operating Altitude	6561.68 ft (2000 m)	
Ip Degree Of Protection	IP20 conforming to EN/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	00785901608264
Returnability	No
Country Of Origin	US

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

Contractual warranty

Warranty	18 months	
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Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

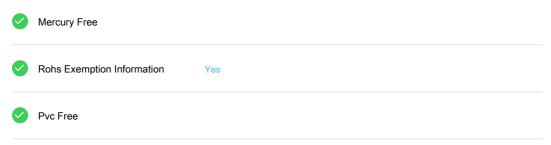
Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Certifications & Standards

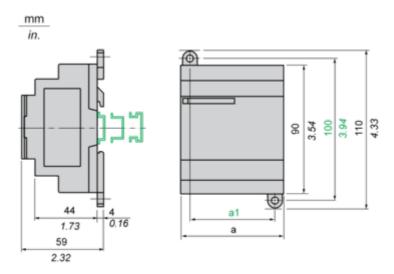
Reach Regulation	REACh Declaration		
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
China Rohs Regulation	China RoHS declaration		
Environmental Disclosure	Product Environmental Profile		
Circularity Profile	End of Life Information		
California Proposition 65	WARNING: 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		

ABL8MEM12020

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

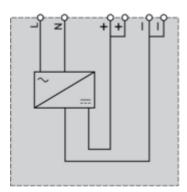
Product data sheet

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Connections and Schema

Regulated Switch Mode Power Supply

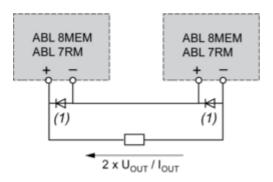
Internal Wiring Diagram



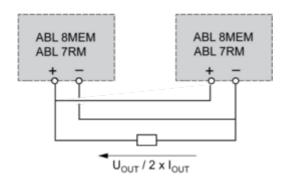
Regulated Switch Mode Power Supplies

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.

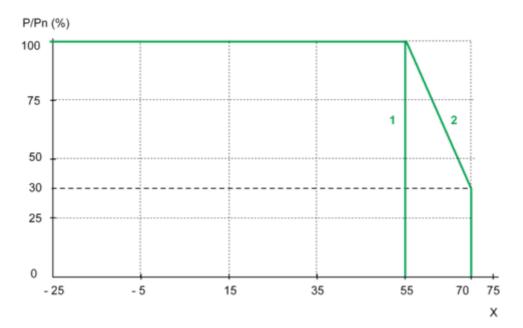
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Performance Curves

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*****