

Regulated Switch Power Supply, 1 or 2-phase, 100..240V AC, 5V, 4 A

ABL8MEM05040

- ① Discontinued on: Dec 20, 2020
- ! End-of-service on: Jan 6, 2021

! Discontinued

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, terminal(s): L1-L2 100240 V AC single phase, terminal(s): N-L1 120250 V DC	
Rated Power In W	20 W	
Output Voltage	5 V DC	
Power Supply Output Current	4 A	

Complementary

Input Protection Type	Integrated fuse (not interchangeable)		
Inrush Current	20 A		
Power Factor	0.5 at 5 V DC		
Efficiency	75 %		
Output Voltage Adjustment	4.756.25 V adjustable		
Power Dissipation In W	6.7 W		
Current Consumption	0.35 A 240 V AC 0.55 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) for input connection Screw type terminals: 4 x 0.144 x 2.5 mm², (AWG 26AWG 14) for output connection		
Status Led	1 LED (green) output voltage		
Depth	59 mm		
Height	100 mm		
Width	54 mm		
Net Weight	0.195 kg		
Output Coupling	Parallel Series		
Marking	CE		

Mounting Support	35×15 mm symmetrical DIN rail 35×7.5 mm symmetrical DIN rail panel 2 screws, diameter : 4 mm
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
Dielectric Strength	3000 V with between input and output

Environment

Standards	CSA C22.2 No 60950-1 UL 508 EN/IEC 62368-1	
Product Certifications	EAC TUV 60950-1 RCM KC 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 derating mounting position A < 2000 m 5570 °C with derating factor mounting position A < 2000 m	

Packing Units

Package 1 Height	0.670 dm	
Package 1 Width	0.730 dm	
Package 1 Length	1.000 dm	
Package 1 Weight	0.231 kg	

Contractual warranty

Warranty 18 months

Sustainability

Green PremiumTM label label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low- 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 >





Transparency RoHS/REACh

Well-being performance



Certifications & Standards

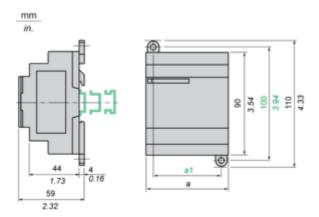
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
	EU RoHS Declaration		
China Rohs Regulation	China RoHS declaration		
Environmental Disclosure	Product Environmental Profile		
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and 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		
Circularity Profile	End of Life Information		

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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

ABL8MEM05040

Connections and Schema

Regulated Switch Mode Power Supply

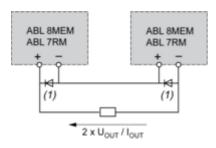
Internal Wiring Diagram

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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.

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

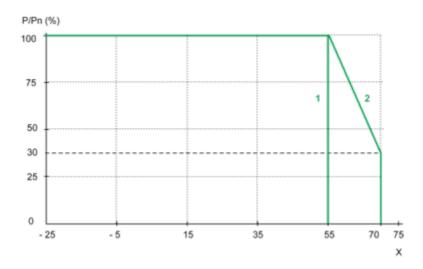
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Performance Curves

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