Specifications



Regulated switch power supply, modicon power supply, 1 or 2 phase, 100...240V AC, 5V, 4A

ABL8MEM05040

Discontinued on: 17 February 2021

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	20 W	
Output voltage	5 V DC	
Power supply output current	4 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 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) 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
Mounting support	35 x 15 mm symmetrical DIN rail 35 x 7.5 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	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 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	22525-ABL8 AND ABL7 POWER SUPPLIE		
Discount Schedule	CP12		
GTIN	00785901670360		
Returnability	No		
Country of origin	CN		

Packing Units

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

Number of Units in Package 1

Offer Sustainability

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Sustainable offer status	Green Premium product		
California proposition 65 WARNING: This product can expose you to chemicals including: Lead and lead con known to the State of California to cause cancer and birth defects or other reproduct information go to www.P65Warnings.ca.gov			
REACh Regulation	REACh Declaration		
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration		
Mercury free	Yes		
China RoHS Regulation	China RoHS declaration		
RoHS exemption information	Yes		
Environmental Disclosure	Product Environmental Profile		
Circularity Profile	End of Life Information		

PVC free

Contractual warranty

Warranty

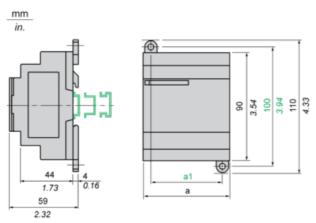
18 months



Dimensions Drawings

Regulated Switch Mode Power Supplies

Dimensions



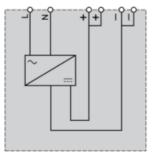
	a in mm	a in in.	a1 in mm	a1 in in.
ABL8MEM05040	54	2.12	42	1.65
ABL8MEM12020	54	2.12	42	1.65
ABL8MEM24003	36	1.41	24	0.94
ABL8MEM24006	36	1.41	24	0.94
ABL8MEM24012	54	2.12	42	1.65
ABL7RM24025	74	2.91	60	2.36

ABL8MEM05040

Connections and Schema

Regulated Switch Mode Power Supply

Internal Wiring Diagram



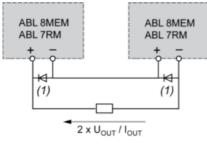


Connections and Schema

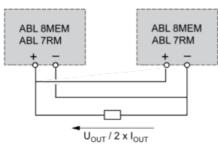
Regulated Switch Mode Power Supplies

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.

Performance Curves

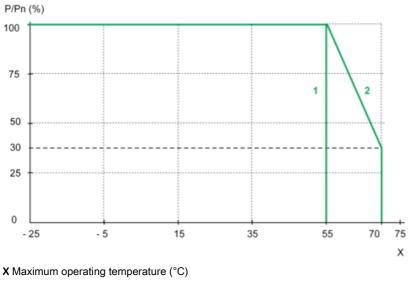
Regulated Switch Mode Power Supplies

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.



(1) With an ABL7RM24025 (2) With an ABL8MEM•••••

Recommended replacement(s)

ABL8MEM05040 is replaced by:



Regulated Power Supply, 100 to 240V AC, 5V, 3.6A, single phase, Modular ABLM1A05036

