

Product availability: Stock - Normally stocked in distribution facility



Main	
Range of product	Phaseo
Product or component type	Power supply
Power supply type	Regulated switch mode
Input voltage	100240 V AC phase to phase L1-L2 100240 V AC single phase N-L1 120250 V DC
Output voltage	24 V DC
Rated power in W	15 W
Input protection type	Integrated fuse (not interchangeable)
Power supply output current	0.6 A
Output protection type	Thermal Against short-circuits
Ambient air temperature for operation	-13131 °F (-2555 °C) without) 131158 °F (5570 °C) with derating factor)

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Complementary		
Input voltage limits	85264 V	
Network frequency	4763 Hz	
Inrush current	20 A	
Cos phi	0.5	
Efficiency	80 %	
Output voltage limits	22.228.8 V adjustable	
Power dissipation in W	3.8 W	
Current consumption	0.25 A 240 V 0.4 A 100 V	
Line and load regulation	+/- 3 %	
Residual ripple	250 mV	
Holding time	>= 10 ms 100 V >= 150 ms 230 V	
Connections - terminals	Input connection screw type terminals 2 x 0.142 x 2.5 mm² AWG 26AWG 14 Output connection screw type terminals 2 x 0.142 x 2.5 mm² AWG 26AWG 14	
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	
Operating altitude	6561.68 ft (2000 m)	
Output coupling	Parallel Series	
Name of test	Electrostatic discharges EN/IEC 61000-4-2 Induced electromagnetic field EN/IEC 61000-4-6 Primary outage IEC 61000-4-11 Radiated electromagnetic field EN/IEC 61000-4-3 Rapid transient IEC 61000-4-4 Surge EN/IEC 61000-4-5 Conducted emissions on the power line EN 55022 class B Emission EN 50081-1 Radiated emissions EN 55022 class B Harmonic current emission EN/IEC 61000-3-2	

Status LED

Output voltage 1 LED green)

Depth	2.32 in (59 mm)
Height	3.94 in (100 mm)
Width	1.42 in (36 mm)
Product weight	0.22 lb(US) (0.1 kg)

Environment

MTBF reliability	With MIL-HDBK-217F	
Product certifications	TUV 60950-1 EAC KC RCM CCSAus CSA 22-2 No 950 CULus 508	
Standards	UL 508 CSA C22.2 No 60950-1	
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 Safety SELV	
IP degree of protection	IP20 EN/IEC 60529	
Ambient air temperature for storage	-40158 °F (-4070 °C)	
Relative humidity	090 % during operation 095 % in storage	
Overvoltage category	Class II VDE 0106-1	
Dielectric strength	3000 V between input and output	

Ordering and shipping details

Category	22525 - ABL8 AND ABL7 POWER SUPPLIE		
Discount Schedule	CP12		
GTIN	00785901490036		
Package weight(Lbs)	0.13 kg (0.29 lb(US))		
Returnability	Yes		
Country of origin	CN		

Offer Sustainability

Sustainable offer status	Green Premium product		
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 Carcinogen & Reproductive harm. For more 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		
RoHS exemption information	₫Yes		
China RoHS Regulation	China RoHS Declaration		
Circularity Profile	End Of Life Information		

Contractual warranty

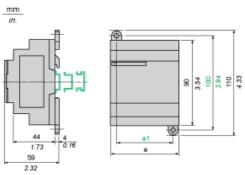
Warranty	10 months
vvarranty	18 months

Product data sheet Dimensions Drawings

ABL8MEM24006

Regulated Switch Mode Power Supplies

Dimensions

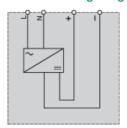


	a in mm	a in in.	a1 in mm	a1 in in.
ABL8MEM05040	54	2.12	42	1.65
ABL8MEM12020	54	2.12	42	1.65
ABL8MEM24003	36	1.41	24	0.94
ABL8MEM24006	36	1.41	24	0.94
ABL8MEM24012	54	2.12	42	1.65
ABL7RM24025	74	2.91	60	2.36

ABL8MEM24006

Regulated Switch Mode Power Supply

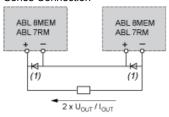
Internal Wiring Diagram



Regulated Switch Mode Power Supplies

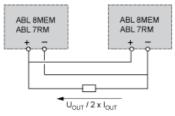
Series or Parallel Connection

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.

ABL8MEM24006

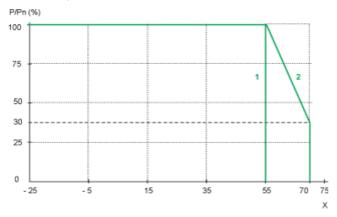
Regulated Switch Mode Power Supplies

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•••••