Lembar data produk Karakteristik

ABL8MEM05040

regulated SMPS - 1 or 2-phase - 100..240 V AC -5 V - 4 A



Main

Main		eung bengguna
Range of product	Phaseo	je
Product or component type	Power supply	aplikası
Power supply type	Regulated switch mode	untuk
Input voltage	100240 V AC phase to phase, terminal(s): L1-L2 100240 V AC single phase, terminal(s): N-L1 120250 V DC	n produk ini c
Output voltage	5 V DC	dalar
Rated power in W	20 W	kean
Input protection type	Integrated fuse (not interchangeable)	atau
Power supply output current	4 A	uaian
Output protection type	Against short-circuits	eses kese
Ambient air temperature for operation	-2555 °C without 5570 °C with	eentukan k

Complementary

85264 V
4763 Hz
20 A
0.5
75 %
4.756.25 V adjustable
6.7 W
0.35 A at 240 V
0.55 A at 100 V
+/- 3 %
250 mV
>= 10 ms at 100 V
Screw type terminals for input connection, connection capacity: 2 x 0.142 x 2.5 mm ² AWG 26AWG 14
Screw type terminals for output connection, connection capacity: 4 x 0.144 x 2.5 mm ² AWG 26AWG 14
CE
35 x 15 mm symmetrical DIN rail



35 x 7.5 mm symmetrical DIN rail
Panel 2 screws, diameter : 4 mm

Operating position	Vertical	
Operating altitude	2000 m	
Output coupling	Parallel Series	
Name of test	Harmonic current emission conforming to EN/IEC 61000-3-2 Conducted emissions on the power line conforming to EN 55022 Class B Electrostatic discharges conforming to EN/IEC 61000-4-2 Emission conforming to EN 50081-1 Induced electromagnetic field conforming to EN/IEC 61000-4-6 Primary outage conforming to IEC 61000-4-11 Radiated electromagnetic field conforming to EN/IEC 61000-4-3 Radiated emissions conforming to EN 55022 Class B Rapid transient conforming to IEC 61000-4-4 Surge conforming to EN/IEC 61000-4-5	
Status LED	1 LED green for output voltage	
Depth	59 mm	
Height	100 mm	
Width	54 mm	
Product weight	0.195 kg	

Environment

Product certifications	CCSAus	
	CSA 22-2 No 950	
	CULus 508	
	TUV 60950-1	
	RCM	
	EAC	
	КС	
Standards	UL 508	
	CSA C22.2 No 60950-1	
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	
	Safety conforming to SELV	
IP degree of protection	IP20 conforming to EN/IEC 60529	
Ambient air temperature for storage	-4070 °C	
Relative humidity	090 % during operation	
	095 % in storage	
Overvoltage category	Class II conforming to VDE 0106-1	
Dielectric strength	Between input and output	
MTBF reliability	191491 H with MIL-HDBK-217F calculation method	

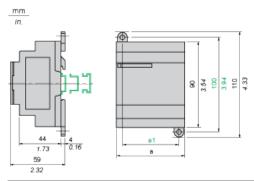
Contractual warranty

Warranty period

18 months

Regulated Switch Mode Power Supplies

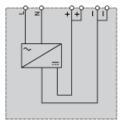
Dimensions



	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

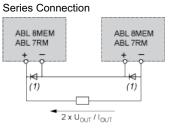
Regulated Switch Mode Power Supply

Internal Wiring Diagram



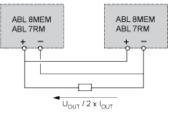
Regulated Switch Mode Power Supplies

Series or Parallel 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.

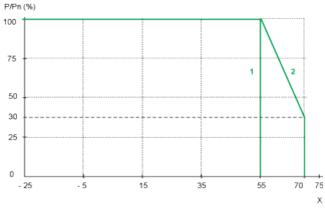
Regulated Switch Mode Power Supplies

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•••••