



regulated SMPS, single phase, 100..240 V input, 24 V output, 100 W

ABL1REM24042

(!) Discontinued

Main

Range of Product	Phaseo Dedicated
Product or Component Type	Power supply
Power supply type	Regulated switch mode
Kw Rating	100 W
Nominal Input Voltage	AC single phase DC
Output voltage	24 V DC
Power supply output current	4.2 A
Operating position	Any position
Vibration resistance	2 gn 9150 Hz)EN/IEC 61131-2 3.5 mm 59 Hz)EN/IEC 61131-2
Name of test	Conducted interference EN 61000-4-8 level 4 Electrostatic discharges EN/IEC 61000-4-2 level 3 Induced electromagnetic field EN/IEC 61000-4-6 level 3 Radiated electromagnetic field EN/IEC 61000-4-3 level 3 Rapid transient IEC 61000-4-4 level 3 Conducted/radiated emissions EN 55022 Class B Conducted/radiated emissions EN/IEC 55011 Emission EN/IEC 61000-6-3 Primary outage IEC 61000-4-11 Surge EN/IEC 61000-4-5

Complementary

<u> </u>	
Input voltage limits	85264 V
Network Frequency	4763 Hz
Inrush current	50 A 115 V AC 100 A 230 V AC
Cos phi	0.65
Efficiency	80 %
Power dissipation in W	25 W
Current consumption	0.7 A 240 V 1.4 A 100 V
Input protection type	Integrated fuse (not interchangeable)

Output voltage limits	21.626.4 V
Line and load regulation	+/- 3 %
Holding time	>= 10 ms 100 V >= 40 ms 240 V
Output protection type	Against overload 1.11.5 x In Against overvoltage tripping if U > 1.25 x Un Against short-circuits automatic reset Thermal
Connections - terminals	Ground connection screw type terminals 1 x 4 mm² AWG 12 Input connection screw type terminals 2 x 4 mm² AWG 12 Output connection screw type terminals 4 x 4 mm² AWG 12
Marking	CE
Mounting Support	Panel Reversible mounting bracket
Operating altitude	6561.68 ft (2000 m)
Output coupling	Series Parallel
Overvoltage category	П
Meantime between failure [MTBF]	100000 h 104 °F (40 °C)
Status LED	Output voltage 1 LED Green)
Net Weight	1.41 lb(US) (0.64 kg)
Environment	
Product Certifications	UL 508 cCSAus

Product Certifications	UL 508 cCSAus TUV 60950-1 CSA 22-2 No 60950-1 RCM KC EAC
Environmental characteristic	EMC EN 50081-1 EMC EN 50082-2 EMC EN 61000-6-3 EMC EN/IEC 61000-6-2 Safety EN/IEC 60950-1 Safety SELV
IP degree of protection	IP20 conforming to EN/IEC 60950
Ambient air temperature for operation	32113 °F (045 °C) without derating) 113140 °F (4560 °C) with derating factor)
Ambient Air Temperature for Storage	-13185 °F (-2585 °C)
Relative humidity	2090 %
Overvoltage category	Class I VDE 0106-1
Pollution degree	2
Dielectric strength	1500 V between input and ground 3000 V between input and output 500 V between output and ground

Ordering and shipping details

Discount Schedule CP12 GTIN 3389110638257	
GTIN 3389110638257	
Nbr. of units in pkg. 1	
Package weight(Lbs) 25.75 oz (730 g)	
Returnability No	

Country of origin	CN
Packing Units	
Unit Type of Package 1	PCE
Package 1 Height	2.17 in (5.5 cm)
Package 1 width	9.25 in (23.5 cm)
Package 1 Length	7.87 in (20 cm)
Unit Type of Package 2	P06
Number of Units in Package 2	96
Package 2 Weight	183.16 lb(US) (83.08 kg)
Package 2 Height	28.94 in (73.5 cm)
Package 2 width	31.50 in (80 cm)
Package 2 Length	23.62 in (60 cm)
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 cancer and birth defects or other 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
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

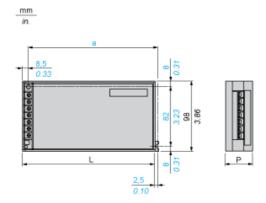
18 months

Warranty

ABL1REM24042

Dimensions Drawings

Dimensions



Dimensions in mm

а	L	Р
194	200	38

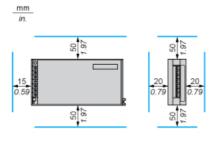
Dimensions in in.

а	L	Р
7.64	7.87	1.50

ABL1REM24042

Mounting and Clearance

Clearance

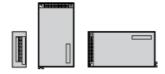


ABL1REM24042

Mounting and Clearance

Mounting Way

Mounting on Vertical Plane



Mounting on Horizontal Plane

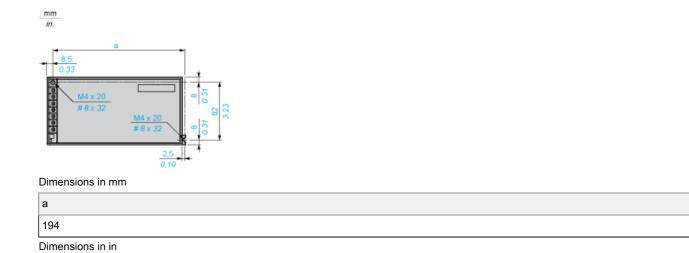


ABL1REM24042

Mounting and Clearance

7.64

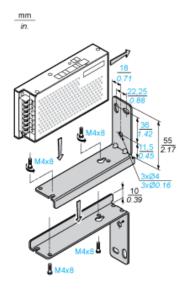
Direct Mounting by 2 M4 x 20 Screws



ABL1REM24042

Mounting and Clearance

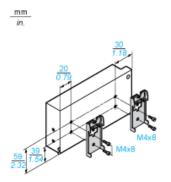
Mounting on the Back on ABL 1A01 Reversible Bracket by Three 4 mm Diameter Screws



ABL1REM24042

Mounting and Clearance

Mounting on ABL 1A02 Clip-on Mounting on 35 mm Rail



ABL1REM24042

Mounting and Clearance

Mounting by the Back



Dimensions in mm

b	С
38	58

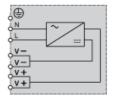
Dimensions in in.

b	С
1.50	2.28

ABL1REM24042

Connections and Schema

Internal Wiring Diagram

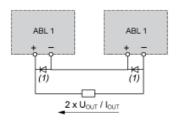


ABL1REM24042

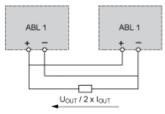
Connections and Schema

Series or Parallel Connection

Series Connection



Parallel Connection



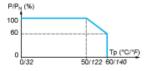
(1) 8 A/100 V Shottky diode

ABL1REM24042

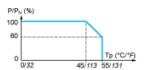
Performance Curves

Derating Curves

Mounting on Vertical Plane



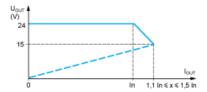
Mounting on Horizontal Plane



ABL1REM24042

Performance Curves

Load Limits Curve



Recommended replacement(s)

ABL1REM24042 is replaced by:





Regulated Power Supply, 100...240V AC, 24V 4.5A, single phase, Panel Mount ABLP1A24045