

# ABL1REM24042

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

Product availability: Stock - Normally stocked in distribution facility



## Main

Commercial Status	Commercialised
Range of product	Phaseo Dedicated
Product or component type	Power supply
Power supply type	Regulated switch mode
Rated power in W	100 W
Input voltage	120...370 V DC 100...240 V AC single phase
Output voltage	24 V DC
Power supply output current	4.2 A
Operating position	Any position
Vibration resistance	3.5 mm (f = 5...9 Hz) conforming to EN/IEC 61131-2 2 gn (f = 9...150 Hz) conforming to EN/IEC 61131-2
Name of test	Surge conforming to EN/IEC 61000-4-5 Rapid transient conforming to IEC 61000-4-4 level 3 Radiated electromagnetic field conforming to EN/IEC 61000-4-3 level 3 Primary outage conforming to IEC 61000-4-11 Induced electromagnetic field conforming to EN/IEC 61000-4-6 level 3 Emission conforming to EN/IEC 61000-6-3 Electrostatic discharges conforming to EN/IEC 61000-4-2 level 3 Conducted/Radiated emissions conforming to EN/IEC 55011 Conducted/Radiated emissions conforming to EN 55022 Class B Conducted interference conforming to EN 61000-4-8 level 4

## Complementary

Input voltage limits	85...264 V
Network frequency limits	47...63 Hz
Inrush current	<= 50 A
Cos phi	0.65
Efficiency	> 80 %
Power dissipation in W	25 W
Current consumption	1.4 A at 100 V 0.7 A at 240 V
Input protection type	Integrated fuse (not interchangeable)
Output voltage limits	21.6...26.4 V
Line and load regulation	+/- 3 %
Residual ripple	< 200 mV
Holding time	>= 40 ms at 240 V >= 10 ms at 100 V
Output protection type	Thermal Against short-circuits, protection technology: automatic reset Against overvoltage, protection technology: tripping if $U > 1.25 \times U_n$ Against overload, protection technology: $1.1...1.5 \times I_n$
Connections - terminals	Screw type terminals for output connection, connection capacity: 4 x 4 mm <sup>2</sup> AWG gauge12 Screw type terminals for input connection, connection capacity: 2 x 4 mm <sup>2</sup> AWG gauge12 Screw type terminals for ground connection, connection capacity: 1 x 4 mm <sup>2</sup> AWG gauge12

Marking	CE
Mounting support	Panel Reversible mounting bracket
Output coupling	Parallel Series
Overvoltage category	II
Meantime between failure (MTBF)	> 100000 h at 104 °F (40 °C)
Status LED	1 LED green for output voltage
Product weight	1.41 lb(US) (0.64 kg)

## Environment

Product certifications	CCSAus CSA 22-2 No 60950-1 C-Tick TÜV UL 508 UL 60950-1
Environmental characteristic	Safety conforming to SELV Safety conforming to EN/IEC 60950-1 EMC conforming to EN/IEC 61000-6-2 EMC conforming to EN 61000-6-3 EMC conforming to EN 50082-2 EMC conforming to EN 50081-1
IP degree of protection	IP20 conforming to EN/IEC 60950
Ambient air temperature for operation	113...140 °F (45...60 °C) with derating factor 32...113 °F (0...45 °C) without derating factor
Ambient air temperature for storage	-13...185 °F (-25...85 °C)
Relative humidity	20...90 %
Class of protection against electric shock	Class I conforming to VDE 0106-1
Pollution degree	2
Dielectric strength	500 V between output and ground 3000 V between input and output 1500 V between input and ground

## Ordering and shipping details

Category	22524 - ABL1 DEDICATED POWER SUPPLIES
Discount Schedule	CP12
GTIN	00785901567592
Nbr. of units in pkg.	1
Package weight(Lbs)	1.62
Product availability	Stock - Normally stocked in distribution facility
Returnability	Y
Country of origin	CN

## Contractual warranty

Period	18 months
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