### Product data sheet Characteristics

## ABL8REM24030

regulated SMPS - 1 or 2-phase - 100..240 V AC -24 V - 3 A

Product availability: Stock - Normally stocked in distribution facility

Price\* : 195.00 USD



#### 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, terminal(s): L1-L2 100240 V AC single phase, terminal(s): N-L1 110220 V DC	
Output voltage	24 V DC	
Rated power in W	72 W	
Input protection type	Integrated fuse (not interchangeable)	
Power supply output current	3 A	
Output protection type	Against overload, protection technology: 1.1 x In Against overvoltage, protection technology: tripping if U > 1.5 x Un Against short-circuits, protection technology: automatic reset Against undervoltage, protection technology: tripping if U < 0.8 x Un	
Ambient air temperature for operation	32122 °F (050 °C) without 122140 °F (5060 °C) with	

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	32122 °F (050 °C) without 122140 °F (5060 °C) with	
Ambient air temperature for operation		
Complementary		
Complementary Input voltage limits	122140 °F (5060 °C) with  100250 V	
Complementary Input voltage limits Network frequency	122140 °F (5060 °C) with  100250 V 85264 V	
Complementary Input voltage limits Network frequency Inrush current	122140 °F (5060 °C) with  100250 V 85264 V 4763 Hz	
Complementary Input voltage limits  Network frequency Inrush current Cos phi	122140 °F (5060 °C) with  100250 V 85264 V  4763 Hz 30 A	
Complementary Input voltage limits  Network frequency Inrush current Cos phi Efficiency	122140 °F (5060 °C) with  100250 V 85264 V 4763 Hz 30 A 0.65	
Complementary Input voltage limits  Network frequency Inrush current  Cos phi  Efficiency Output voltage limits	122140 °F (5060 °C) with  100250 V 85264 V  4763 Hz 30 A 0.65 85 %	
Complementary Input voltage limits  Network frequency Inrush current Cos phi Efficiency Output voltage limits Power dissipation in W	122140 °F (5060 °C) with  100250 V 85264 V  4763 Hz 30 A 0.65 85 % 100120 % adjustable	
Complementary Input voltage limits  Network frequency Inrush current Cos phi Efficiency Output voltage limits Power dissipation in W Current consumption	122140 °F (5060 °C) with  100250 V 85264 V  4763 Hz 30 A 0.65 85 % 100120 % adjustable 12.7 W 0.83 A at 240 V	
Ambient air temperature for operation  Complementary Input voltage limits  Network frequency Inrush current  Cos phi  Efficiency Output voltage limits  Power dissipation in W  Current consumption  Line and load regulation  Holding time	122140 °F (5060 °C) with  100250 V 85264 V 4763 Hz 30 A 0.65 85 % 100120 % adjustable 12.7 W 0.83 A at 240 V 1.46 A at 100 V	

	Screw type terminals input ground connection, connection capacity: 1 x 0.141 x 2.5 mm² AWG 26AWG 14 Screw type terminals output connection, connection capacity: 2 x 0.142 x 2.5 mm² AWG 26AWG 14 Screw type terminals output ground connection, connection capacity: 1 x 0.141 x 2.5 mm² AWG 26AWG 14	
Marking	CE	
Mounting support	35 x 15 mm symmetrical DIN rail 35 x 7.5 mm symmetrical DIN rail 75 x 7.5 mm symmetrical DIN rail	
Operating position	Vertical	
Operating altitude	6561.68 ft (2000 m)	
Output coupling	Parallel Series	
Name of test	Conducted/Radiated emissions conforming to EN 55011 Conducted/Radiated emissions 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 Rapid transient conforming to IEC 61000-4-4 Surge conforming to EN/IEC 61000-4-5	
Status LED	1 LED green output voltage 1 LED orange input voltage	
Depth	4.72 in (120 mm)	
Height	4.72 in (120 mm)	
Width	1.06 in (27 mm)	
Product weight	1.15 lb(US) (0.52 kg)	
Compatibility code	ABL8R	

#### Environment

Product certifications	TUV 60950-1 RCM EAC KC	
Standards	UL 508 CSA C22.2 No 60950-1	
Environmental characteristic	EMC conforming to EN 50081-1 EMC conforming to EN 50082-2 EMC conforming to EN/IEC 61000-6-2 Safety conforming to EN/IEC 60950 Safety conforming to SELV	
IP degree of protection	IP20 conforming to EN/IEC 60529	
Ambient air temperature for storage	-13158 °F (-2570 °C)	
Relative humidity	095 % without condensation or dripping water	
Overvoltage category	Class I conforming to VDE 0106-1	
Dielectric strength	Between input and ground Between output and ground Between input and output Between outputs	

#### Ordering and shipping details

Category	22525 - ABL8 AND ABL7 POWER SUPPLIE	
Discount Schedule	CP12	
GTIN	00785901616849	
Nbr. of units in pkg.	1	
Package weight(Lbs)	1.24	
Returnability	Υ	
Country of origin	CN	

#### Contractual warranty

Warranty period

18 months

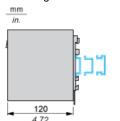
# Product data sheet Dimensions Drawings

## **ABL8REM24030**

#### Regulated Switch Mode Power Supply

#### **Dimensions and Mounting**

Mounting on a 35 mm/1.37 in. or 75 mm/2.95 in. Rail



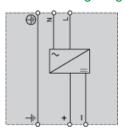


## Product data sheet Connections and Schema

## ABL8REM24030

#### Regulated Switch Mode Power Supply

#### Internal Wiring Diagram

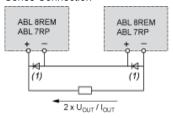


### ABL8REM24030

#### Regulated Switch Mode Power Supplies

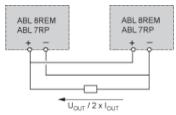
#### Series or Parallel Connection

#### Series Connection



(1) Two Shottky diodes Imin = power supply In and Vmin = 50 V

#### Parallel Connection



Family	Series	Parallel
ABL 8REM/7RP	2 products max.	2 products max.

Series or parallel connection is only recommended for products with identical references.

### **ABL8REM24030**

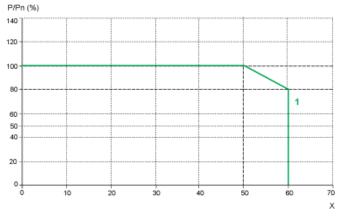
#### Regulated Switch Mode Power Supplies

#### 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 Optimum range of Phaseo power supplies is 50 °C. Above this temperature, derating is necessary up to a maximum temperature of 60 °C.

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) ABL 8REM, ABL 7RP mounted vertically

Derating should be considered in extreme operating conditions:

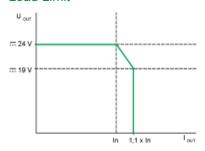
- Intensive operation (output current permanently close to the nominal current, combined with a high ambient temperature)
- Output voltage set above 24 Vdc (to compensate for line voltage drops, for example)
- Parallel connection to increase the total power

## Product data sheet Performance Curves

## **ABL8REM24030**

#### Regulated Switch Mode Power Supply

#### Load Limit



## Product data sheet Performance Curves

## **ABL8REM24030**

#### Regulated Switch Mode Power Supply

#### Temporary Overloads

