

Product datasheet

Specifications



Regulated Switch Power Supply. 1 or 2-phase. 100.240V AC- 48V. 2.5 A

ABL7RP4803

⚠ Discontinued on: 23 Jul 2021

⚠ To be discontinued

Price: 5,413.00 ZAR

Main

Range Of Product	Modicon Power Supply
Product Or Component Type	Power supply
Power Supply Type	Regulated switch mode
Nominal Input Voltage	100...240 V AC phase to phase, terminal(s): L1-L2 100...240 V AC single phase, terminal(s): N-L1 110...220 V DC
Rated Power In W	120 W
Output Voltage	48 V DC
Power Supply Output Current	2.5 A

Complementary

Input Voltage Limits	85...264 V AC 100...250 V AC
Input Protection Type	Integrated fuse (not interchangeable)
Inrush Current	30 A
Power Factor	0.98 at 48 V DC
Efficiency	85 %
Output Voltage Adjustment	100...120 % adjustable
Power Dissipation In W	25.4 W
Current Consumption	1 A 100 V AC 0.6 A 240 V AC
Output Protection Type	Against overload, protection technology: $1.1 \times I_n$ Against overvoltage, protection technology: tripping if $U > 1.5 \times U_n$ Against short-circuits, protection technology: manual or automatic reset Against undervoltage, protection technology: tripping if $U < 0.8 \times U_n$
Connections - Terminals	Screw type terminals: $2 \times 0.14...2 \times 2.5 \text{ mm}^2$, (AWG 26...AWG 14) for input connection Screw type terminals: $4 \times 0.14...4 \times 2.5 \text{ mm}^2$, (AWG 26...AWG 14) for output connection Screw type terminals: $1 \times 0.14...1 \times 2.5 \text{ mm}^2$, (AWG 26...AWG 14) for input ground connection Screw type terminals: $2 \times 0.14...2 \times 2.5 \text{ mm}^2$, (AWG 26...AWG 14) for output ground connection
Status Led	1 LED (green) output voltage 1 LED (orange) input voltage
Depth	120 mm
Height	120 mm

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Width	54 mm
Net Weight	1 kg
Output Coupling	Series Parallel
Marking	CE
Mounting Support	75 x 7.5 mm symmetrical DIN rail 35 x 7.5 mm symmetrical DIN rail 35 x 15 mm symmetrical DIN rail
Operating Position	Vertical
Supply	SELV conforming to EN/IEC 60950-1 SELV conforming to EN/IEC 60204-1 SELV conforming to IEC 60364-4-41
Dielectric Strength	3000 V with between input and ground 3000 V with between input and output 500 V with between output and ground 500 V with between outputs

Environment

Standards	UL 508 CSA C22.2 No 60950-1 EN/IEC 62368-1
Product Certifications	CSA 22-2 No 950 EAC RCM KC UL 508 TÜV
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 IEC 61496-1-2
Operating Altitude	2000 m
IP Degree Of Protection	IP20 conforming to EN/IEC 60529
Ambient Air Temperature For Operation	0...50 °C without derating mounting position A < 2000 m 50...60 °C with derating factor mounting position A < 2000 m

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	6.5 cm
Package 1 Width	13.3 cm
Package 1 Length	14.5 cm
Package 1 Weight	1.076 kg

Contractual warranty

Warranty	18 months
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Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)

Well-being performance

 Mercury Free

 Rohs Exemption Information Yes

 Pvc Free

Reach Regulation [REACH Declaration](#)

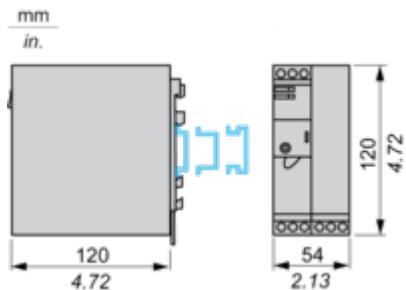
Eu Rohs Directive Pro-active compliance (Product out of EU RoHS legal scope)

China Rohs Regulation [China RoHS declaration](#)

Dimensions Drawings

Regulated Switch Mode Power Supply**Dimensions and Mounting**

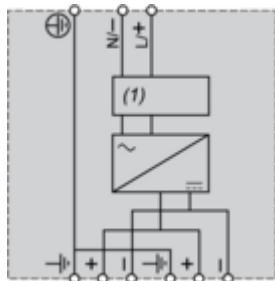
Mounting on 35 mm/1.37 in. or 75 mm/2.95 in. Rail



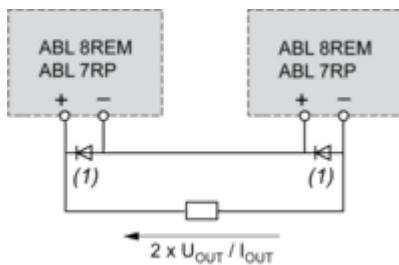
Connections and Schema

Regulated Switch Mode Power Supply

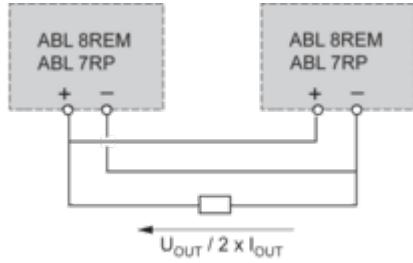
Internal Wiring Diagram



(1) Filter

Regulated Switch Mode Power Supplies**Series or Parallel Connection****Series Connection**

(1) Two肖特基二极管 I_{min} = 电源输入电流， V_{min} = 50 V

Parallel Connection

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

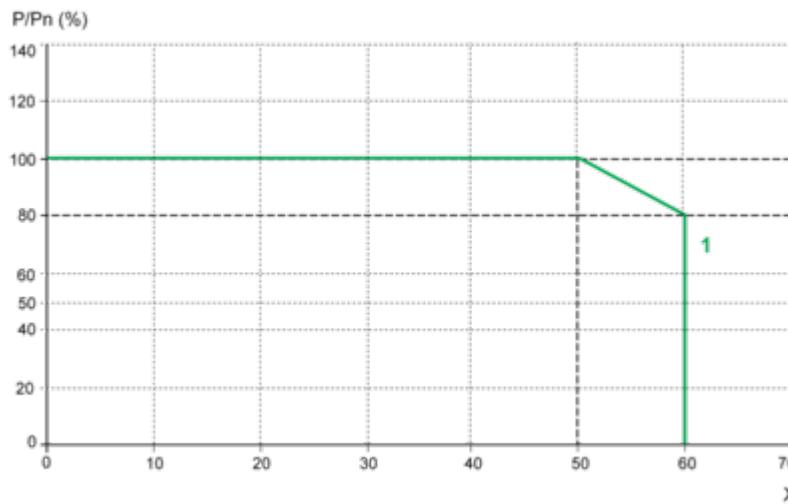
NOTE: Series or parallel connection is only recommended for products with identical references.

Performance Curves

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

Regulated Switch Mode Power Supply

Temporary Overloads

