

① To be discontinued

# Regulated switch power supply, modicon power supply, 3 phases, 380 to 500V AC, 24V, 20A

ABL8WPS24200

- ! To be discontinued on: Dec 31, 2025
- ! To be end-of-service on: Dec 31, 2026

Product availability: Stock - Normally stocked in distribution facility

#### Main

Range of Product	Modicon Power Supply	
Product or Component Type	Power supply	
Power supply type	Regulated switch mode	
Nominal input voltage	380500 V AC three phase L1, L2, L3	
Kw Rating	480 W	
Output voltage	24 V DC	
Power supply output current	20 A	
Permissible temporary current boost	1.5 x In for 4 s)	
Anti-harmonic filter	Low frequency harmonic currents	

## Complementary

Efficiency at full load	320550 V AC	
Inrush current	25 A	
Power factor	0.65 at 24 V DC	
Efficiency	92 %	
Output voltage adjustment	2428.8 V adjustable	
Power dissipation in W	38.4 W	
Provided equipment	Power factor correction filter IEC 61000-3-2	
Output protection type	Against overload, protection technology: manual or automatic reset Against overvoltage, protection technology: 3032 V, manual reset Against short-circuits, protection technology: manual or automatic reset Against undervoltage, protection technology: tripping if U < 21.6 V Thermal, protection technology: automatic reset	
Connections - terminals	Removable screw terminal block 2 x 2.5 mm², diagnostic relay Screw type terminals 3 x 0.53 x 4 mm², AWG 22AWG 12) input connection Screw type terminals 1 x 0.51 x 4 mm², AWG 22AWG 12) input ground connection Screw type terminals 4 x 0.54 x 10 mm², AWG 22AWG 8) output connection	
Status LED	LED (green and red) output voltage     LED (green, red and orange) output current	
Depth	6.3 in (160 mm)	
Height	5.6 in (143 mm)	
Width	3.8 in (96 mm)	

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Product Weight	3.5 lb(US) (1.6 kg)	
Output coupling	Series Parallel	
Marking	CE	
Mounting support	35 x 7.5 mm symmetrical DIN rail 35 x 15 mm symmetrical DIN rail	
Operating position	Vertical	
Supply	SELV IEC 60950-1 SELV IEC 60204-1 SELV IEC 60364-4-41	
Dielectric strength	3500 V with between input and ground 4000 V with between input and output 500 V with between output and ground	

# **Environment**

Standards	CSA C22.2 No 60950-1 UL 508		
	EN/IEC 62368-1		
Product certifications	CCSAus		
	EAC		
	UL		
	RCM		
Environmental characteristic	EMC conforming to IEC 61000-6-1		
	EMC conforming to IEC 61000-6-3		
	EMC conforming to EN 55024		
	EMC conforming to IEC 61000-6-4		
	EMC conforming to EN/IEC 61204-3		
	Safety conforming to EN 61204-4		
	Safety conforming to IEC 60950-1		
Operating altitude	6561.68 ft (2000 m)		
IP degree of protection	IP20 conforming to IEC 60529		
Ambient air temperature for	122140 °F (5060 °C) with derating factor mounting position A < 6561.68 ft (2000		
operation	m)		
	-13122 °F (-2550 °C) without derating mounting position A < 6561.68 ft (2000 m)		

# Ordering and shipping details

Category	US1CP1222525
Discount Schedule	CP12
GTIN	3389119405645
Returnability	Yes
Country of origin	PH

# Packing Units

Unit Type of Package 1	PCE	
Nbr. of units in pkg.	1	
Package 1 Height	5.12 in (13.000 cm)	
Package 1 Width	6.30 in (16.000 cm)	
Package 1 Length	7.40 in (18.800 cm)	
Package weight(Lbs)	4.729 lb(US) (2.145 kg)	
Unit Type of Package 2	P06	
Number of Units in Package 2	45	

Package 2 Height	29.53 in (75.000 cm)
Package 2 Width	23.62 in (60.000 cm)
Package 2 Length	31.50 in (80.000 cm)
Package 2 Weight	242.950 lb(US) (110.200 kg)

# **Contractual warranty**

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

#### Environmental Data explained >

How we assess product sustainability >

## Environmental footprint

Environmental Disclosure

Product Environmental Profile

#### **Use Better**

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	C433dc09-2f7b-4231-a331-94ae03569bc6
REACh Regulation	REACh Declaration
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
PVC free	Yes

#### **Use Again**

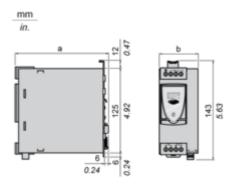
○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

## **ABL8WPS24200**

## **Dimensions Drawings**

#### **Regulated Switch Mode Power Supplies**

#### **Dimensions**



ABL 8	a in mm	a in in.	b in mm	b in in.
RPS24030	125	4.92	45	1.77
RPS24050	125	4.92	56	2.20
RPS24100	145	5.71	86	3.39
RPM24200	145	5.71	146	5.75
WPS24200	160	6.30	96	3.78
WPS24400	160	6.30	166	6.54

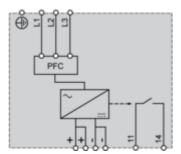
# **Product data sheet**

# **ABL8WPS24200**

Connections and Schema

#### Regulated Switch Mode Power Supply

#### **Internal Wiring Diagram**



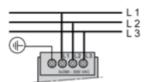
# **Product data sheet**

# **ABL8WPS24200**

#### Regulated Switch Mode Power Supply

#### **Line Supply Wiring Diagram**

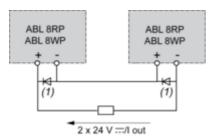
Three-phase (L1-L2-L3) 3 x 380 to 500 V



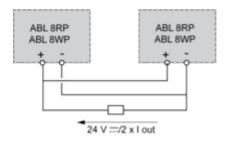
#### **Regulated Switch Mode Power Supplies**

#### **Series or Parallel Connection**

#### **Series Connection**



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



Family	Series	Parallel
ABL 8RPS/8RPM/8WPS	2 products max. (1)	2 products max.

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

For better availability, the power supplies can also be connected in parallel using the **ABL8RED24400** Redundancy module.

#### **ABL8WPS24200**

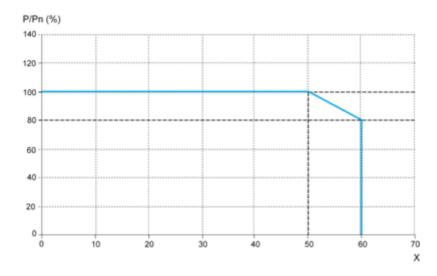
#### Performance Curves

#### **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 Universal 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 (in relation to the nominal power) that the power supply can deliver continuously, depending on the ambient temperature.



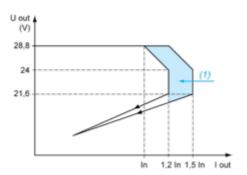
X Maximum operating temperature (°C)
ABL 8RPM, ABL 8RPS, ABL 8WPS mounted vertically
Derating should be considered in extreme operating conditions:

- 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**

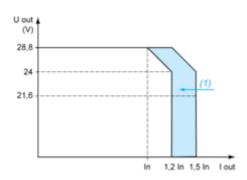
#### **Load Limit**

#### **Manual Reset Protection Mode**

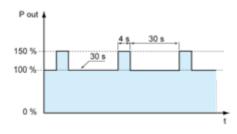


#### (1) Boost 4s

#### **Automatic Reset Protection Mode**



# (1) Boost 4s "Boost" Repeat Accuracy



This type of operation is described in detail in the user manual, which can be downloaded from the website.

Image of product / Alternate images

#### **Alternative**

