

Product availability: Stock - Normally stocked in distribution facility



Main	
Range of product	Phaseo
Product or component type	Power supply
Power supply type	Regulated switch mode
Input voltage	380500 V AC three phase, terminal(s): L1, L2, L3
Output voltage	24 V DC
Rated power in W	480 W
Provided equipment	Power factor correction filter conforming to IEC 61000-3-2
Power supply output current	20 A
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
Ambient air temperature for operation	122140 °F (5060 °C) with -13122 °F (-2550 °C) without

#### Complementary

, ,			
Input voltage limits	320550 V		
Network frequency	4763 Hz		
Inrush current	25 A for 2 ms		
Cos phi	0.65		
Efficiency	92 %		
Output voltage limits	2428.8 V adjustable		
Power dissipation in W	38.4 W		
Line and load regulation	13 %		
Holding time	>= 18 ms at 400 V		
Permissible temporary current boost	1.5 x In for 4 s		
Connections - terminals	Screw type terminals input connection, connection capacity: 3 x 0.53 x 4 mm² AWG 22AWG 12  Screw type terminals input ground connection, connection capacity: 1 x 0.51 x 4 mm² AWG 22AWG 12  Screw type terminals output connection, connection capacity: 4 x 0.54 x 10 mm² AWG 22AWG 8  Removable screw terminal block diagnostic relay, connection capacity: 2 x 2.5 mm²		
Marking	CE		
Mounting support	35 x 7.5 mm symmetrical DIN rail 35 x 15 mm symmetrical DIN rail		
Operating position	Vertical		
Operating altitude	6561.68 ft (2000 m)		
Output coupling	Series Parallel		

Name of test	Harmonic current emission conforming to EN/IEC 61000-3-2 Conducted emissions on the power line conforming to EN 55022 Class B Electrostatic discharges conforming to EN/IEC 61000-4-2 Induced electromagnetic field conforming to EN/IEC 61000-4-6 Magnetic field conforming to EN 61000-4-8 Primary outage conforming to IEC 61000-4-11 Radiated electromagnetic field conforming to EN/IEC 61000-4-3 Radiated emissions conforming to EN 55022 Class B Rapid transient conforming to IEC 61000-4-4 Surge conforming to EN/IEC 61000-4-5	
Status LED	LED green and red output voltage     LED green, red and orange output current	
Depth	6.3 in (160 mm)	
Height	5.63 in (143 mm)	
Width	3.78 in (96 mm)	
Product weight	3.53 lb(US) (1.6 kg)	

#### Environment

Product certifications	CCSAus		
	EAC		
	RCM		
	UL		
Standards	UL 508		
	CSA C22.2 No 60950-1		
Environmental characteristic	EMC conforming to EN 55024		
	EMC conforming to EN 61000-6-1		
	EMC conforming to EN 61000-6-3		
	EMC conforming to EN/IEC 61000-6-4		
	EMC conforming to EN/IEC 61204-3		
	Safety conforming to EN 61204-4		
	Safety conforming to EN/IEC 60950-1		
	Safety conforming to SELV		
IP degree of protection	IP20 conforming to EN/IEC 60529		
Ambient air temperature for storage	-40158 °F (-4070 °C)		
Relative humidity	090 % during operation		
•	095 % in storage		
Overvoltage category	Class I conforming to VDE 0106-1		
Dielectric strength	Between input and ground		
	Between output and ground		
	Between input and output		
MTBF reliability	691000 H at 320 V AC with UTE C80-810 calculation method		
	670000 H at 550 V AC with UTE C80-810 calculation method		

## Ordering and shipping details

22525 - ABL8 AND ABL7 POWER SUPPLIE		
CP12		
00785901666363		
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4.66999999999999		
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PH		

#### Offer Sustainability

Sustainable offer status	Green Premium product  Compliant - since 0501 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity		
RoHS (date code: YYWW)			
REACh	Reference not containing SVHC above the threshold		
Product environmental profile	Available		
Product end of life instructions	Available		
California proposition 65	WARNING: This product can expose you to chemicals including:		
Substance 1	Lead and lead compounds, which is known to the State of California to cause ca cer and birth defects or other reproductive harm.		
More information	For more information go to www.p65warnings.ca.gov		

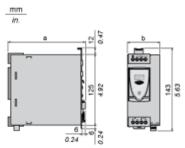
Warranty period 18 months

# Product data sheet Dimensions Drawings

## **ABL8WPS24200**

#### Regulated Switch Mode Power Supplies

#### Dimensions

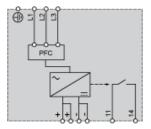


ABL 8	a in mm	a in in.	b in mm	b in in.
RPS24030	125	4.92	45	1.77
RPS24050	125	4.92	56	2.20
RPS24100	145	5.71	86	3.39
RPM24200	145	5.71	146	5.75
WPS24200	160	6.30	96	3.78
WPS24400	160	6.30	166	6.54

### **ABL8WPS24200**

#### Regulated Switch Mode Power Supply

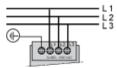
#### Internal Wiring Diagram



#### Regulated Switch Mode Power Supply

#### Line Supply Wiring Diagram

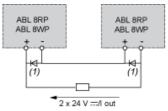
Three-phase (L1-L2-L3) 3 x 380 to 500 V



#### Regulated Switch Mode Power Supplies

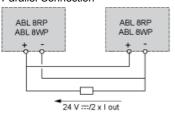
#### Series or Parallel Connection

#### 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.

## Product data sheet

## **ABL8WPS24200**

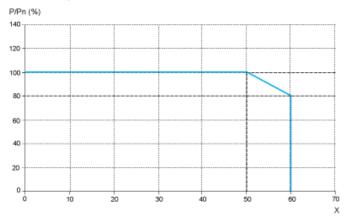
#### Regulated Switch Mode Power Supplies

#### 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

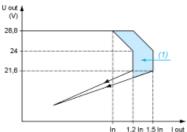
Derating should be considered in extreme operating conditions:

- 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

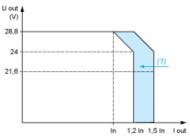
#### **Load Limit**

Manual Reset Protection Mode



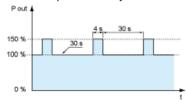
#### (1) Boost 4s

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.

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Click to view products by Schneider manufacturer:

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DVP08ST11N DVPACAB530 DVPCOPM-SL DVPEN01-SL DVPPF01-S ADNB008-48-1PM-C ADNB017-24-1PM-C ADNB040-24
1PM-C ADNB034-12-1PM-C SS14011524 PS-UPS40 PSC-6024 PSD-A60W12 96PS-A120WDIN PSD-A60W48 PSD-A40W12 PSD-A40W24 SMP21-L20-DC24V-5A PSD-A40W48 S8T-DCBU-02 PS-S4024 NTPS-24-1.3 PST-96024 S82YVSC4P PS-S4005 PS-10024

PS-S10024 PS-C12024 PSP-480S24 PS-C48024 PSC-2024 PSC-4012 PSC-4048 PSC-9615 PSC-15124 PSC-15148 PSC-24148 PSC-48148 TRIO-PS-2G/1AC/12DC/5/C2LP QUINT4-PS/1AC/12DC/15