

battery control module, phaseo ABL7 ABL8, 24 to 28.8V DC, phaseo ABL7 ABL8, 24V, 20A, for regulated SMPS

ABL8BBU24200

! To be discontinued on: Dec 31, 2024

## Main

Range Of Product	Phaseo
Product Or Component Type	Battery control module
Input Voltage	2428.8 V DC
Output Voltage	(Ubattery-0.5) V in battery mode DC (Uin-0.25) V in nominal mode DC
Maximum Output Current	20 A

## Complementary

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Input Voltage Limits	2230 V
Maximum Power Dissipation In W	7 W
Activation Threshold	Adjustable 2236 V
Number Of Output Channels	1
Current Consumption	0.6 A on load 0.1 mA no load <= 40.6 A
Output Protection Type	Against overload, protection technology: 1.5 x ln Against short-circuits, protection technology: battery-backed mode, automatic reset Against short-circuits, protection technology: power-supplied mode
Connections - Terminals	For diagnostic relay: removable screw terminal block, connection capacity: 1 x 0.75 mm <sup>2</sup> For input connection: screw type terminals, connection capacity: 2 x 0.52 x 10 mm <sup>2</sup> AWG 20AWG 8 For output connection: screw type terminals, connection capacity: 2 x 0.52 x 10 mm <sup>2</sup> AWG 20AWG 8
Fixing Mode	By clips on 35 mm symmetrical DIN rail, operating position: horizontal By clips on 35 mm symmetrical DIN rail, operating position: vertical
Operating Altitude	2000 m
Marking	CE
Name Of Test	Electrostatic discharges conforming to IEC 61000-4-2 Emission conforming to IEC 61000-6-3 Induced electromagnetic field conforming to IEC 61000-4-6 level 3 Radiated electromagnetic field conforming to IEC 61000-4-3 level 3 Rapid transient conforming to IEC 61000-4-4 level 3 Surge conforming to IEC 61000-4-5 level 2 Conducted/radiated emissions conforming to EN 55022 class B, 20 %
Local Signalling	1 C/O relay for alarm status 1 C/O relay for battery status 1 C/O relay for power supply status LCD screen for module status
Width	60 mm

Height	125 mm
Depth	160 mm
Net Weight	0.5 kg

# **Environment**

Product Certifications	RCM
	EAC
Standards	UL 508
	CSA C22.2 No 60950-1
Ambient Air Temperature For Operation	-2560 °C
Ambient Air Temperature For Storage	-4085 °C
<b>Environmental Characteristic</b>	EMC conforming to IEC 61000-6-3
	EMC conforming to IEC 61000-6-2
	Safety conforming to IEC 60950-1
	Safety conforming to EN/IEC 61204-3
Ip Degree Of Protection	IP20 conforming to IEC 60529
Dielectric Strength	500 V between input and ground
	500 V between output and ground
Overvoltage Category	Class II conforming to VDE 0106-1
Relative Humidity	090 % during operation
	095 % during storage
Mtbf Reliability	718708 H at 24 V DC with UTE C80-810 calculation method
Vibration Resistance	2 gn (f= 11.9150 Hz) conforming to IEC 61131-2
	3.5 mm (f= 311.9 Hz) conforming to IEC 61131-2

# **Packing Units**

r doking office	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	9 cm
Package 1 Width	19.5 cm
Package 1 Length	19.5 cm
Package 1 Weight	1.468 kg
Unit Type Of Package 2	S03
Number Of Units In Package 2	8
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	11.929 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	72
Package 3 Height	80 cm
Package 3 Width	80 cm
Package 3 Length	60 cm
Package 3 Weight	118.7 kg

# **Contractual warranty**

Warranty

Apr 26, 2024

18 months

# **Sustainability**

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> 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 >





Transparency RoHS/REACh

# Well-being performance

<b>Ø</b>	Mercury Free	
<b>⊘</b>	Rohs Exemption Information	Yes
<b>⊘</b>	Pvc Free	

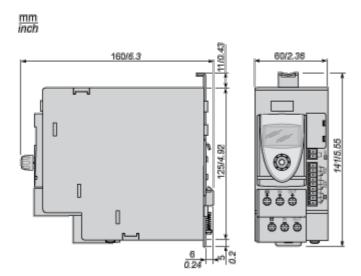
#### **Certifications & Standards**

Reach Regulation	REACh Declaration	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	
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	

**Dimensions Drawings** 

# 24 Vdc/20 A Battery Control Module

#### **Dimensions**



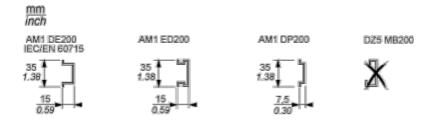
# Product data sheet

# **ABL8BBU24200**

Mounting and Clearance

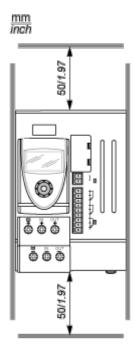
## 24 Vdc Battery Control Module

#### Mounting



## 24 Vdc Battery Control Module

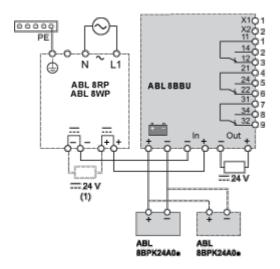
#### Clearance



Connections and Schema

## 24 Vdc Battery Control Module

#### Wiring Diagram



(1) See table below for the maximum unstored charge capacity  $(\mu F)$ 

ABL	Max. Unstored Charge Capacity (uF)
8RPS24030	30 000
8RPS24050	50 000
8RPS24100	100 000
8RPM24200	100 000
8WPS24200	100 000
8WPS24400	100 000

## 24 Vdc Battery Control Module

#### Outputs States (U = 24 Vdc: I > 5 mA, U = 230 Vac: I < 500 mA)

11 14 0 12 0	No power from the power supply	110 140 120	Power from the power supply
21 24 0 22 0	Alarm or device not supplied	21 22 0 1 22 0	No alarm
31 34 0 132 0	No power from the battery pack	31 38 0 132 0	Power from the battery pack

#### **Inputs States (Dry Contact)**

<u>x1</u> 0 <u>x2</u> 0	Operational battery	Battery inhibited

#### **Wiring Requirements**

### **Cable Types and Wire Sizes**

IEC / EN			
10 mm Ø ≤ 4 mm <sup>2</sup>	## 17 mm ## ## ## ## ## ## ## ## ## ## ## ## ##	ABL 8RPS24030 8RPS24050 8RPS24100	ABL 8RPM24200 8WPS24200 8WPS24400
ABL 8BBU24200	In + /-	14 mm <sup>2</sup>	4 10 mm <sup>2</sup>
	<b>i</b> + ∤ –	6 mm <sup>2</sup>	_
	Out + /-	6 mm <sup>2</sup>	_
ABL 8BBU24400	In + / -	14 mm <sup>2</sup>	4 10 mm <sup>2</sup>
	<b>=== + /-</b>	10 mm <sup>2</sup>	_
	Out + /-	10 mm <sup>2</sup>	=
0+		10 mm²	
6,35 mm		_	
OFF / PSU / Alarm /		0,141 mm <sup>2</sup>	

UL			
0.39 in. Ø ≤ 12 AWG	0.87 in.	ABL 8RPS24030 8RPS24050 8RPS24100	ABL 8RPM24200 8WPS24200 8WPS24400
ABL 8BBU24200	In + /-	1612 AWG	12B AWG
	<b>□ +/</b> -	10 AWG	_
	Out + / -	10 AWG	_
ABL 8BBU24400	In + /—	1612 AWG	126 AWG
		6 AWG	_
	Out + /-	6 AMG	=
	⊕⊹	6 AMG	
_/	0.25 in.	_	
OFF / PSU / Ala	oron / 🔤	26 16 AWG	