Product data sheet

Specifications



Discontinued - Service only

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

ABL8BBU24200

Discontinued on: Aug 13, 2024

End-of-service on: Dec 31, 2025

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range of Product	Phaseo
Product or Component Type	Battery control module
Input voltage	24...28.8 V DC
Output voltage	(Ubattery-0.5) V battery mode DC (Uin-0.25) V nominal mode DC
Maximum output current	20 A

Complementary

Input voltage limits	22...30 V
Maximum power dissipation in W	7 W
Activation threshold	Adjustable 22...36 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 In 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 mm² For input connection: screw type terminals, connection capacity: 2 x 0.5...2 x 10 mm² 20 AWG...8 AWG For output connection: screw type terminals, connection capacity: 2 x 0.5...2 x 10 mm² 20 AWG...8 AWG
Fixing mode	By clips 35 mm symmetrical DIN rail horizontal By clips 35 mm symmetrical DIN rail vertical
Operating altitude	6561.68 ft (2000 m)
Marking	CE
Name of test	Electrostatic discharges IEC 61000-4-2 Emission IEC 61000-6-3 Induced electromagnetic field IEC 61000-4-6 level 3 Radiated electromagnetic field IEC 61000-4-3 level 3 Rapid transient IEC 61000-4-4 level 3 Surge IEC 61000-4-5 level 2 Conducted/radiated emissions EN 55022 Class B, 20 %

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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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	2.4 in (60 mm)
Height	4.9 in (125 mm)
Depth	6.3 in (160 mm)
Net Weight	1.1 lb(US) (0.5 kg)

Environment

Product Certifications	RCM EAC
Standards	UL 508 CSA C22.2 No 60950-1
Ambient Air Temperature for Operation	-13…140 °F (-25…60 °C)
Ambient Air Temperature for Storage	-40…185 °F (-40…85 °C)
Environmental characteristic	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	0…90 % during operation 0…95 % during storage
MTBF reliability	718708 H at 24 V DC with UTE C80-810 calculation method
Vibration resistance	2 gn (f= 11.9…150 Hz) conforming to IEC 61131-2 3.5 mm (f= 3…11.9 Hz) conforming to IEC 61131-2

Ordering and shipping details

Category	US1CP1222525
Discount Schedule	CP12
GTIN	3389119406826
Returnability	Yes

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	3.543 in (9.000 cm)
Package 1 Width	7.677 in (19.500 cm)
Package 1 Length	7.677 in (19.500 cm)
Package weight(Lbs)	3.236 lb(US) (1.468 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	72
Package 2 Height	29.528 in (75.000 cm)
Package 2 Width	23.622 in (60.000 cm)

Package 2 Length	31.496 in (80.000 cm)
Package 2 Weight	261.680 lb(US) (118.696 kg)

Contractual warranty

Warranty (in months)	18

Environmental Data

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

Materials and Substances

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Compliant By Exemption
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
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

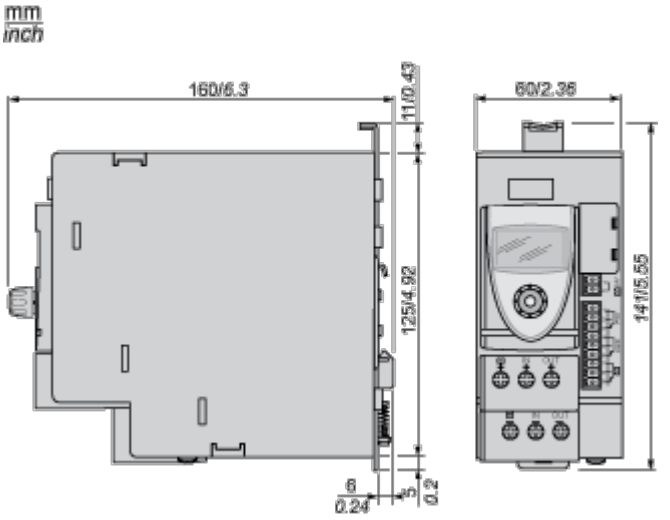
Repack and remanufacture

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.

Dimensions Drawings

24 Vdc/20 A Battery Control Module

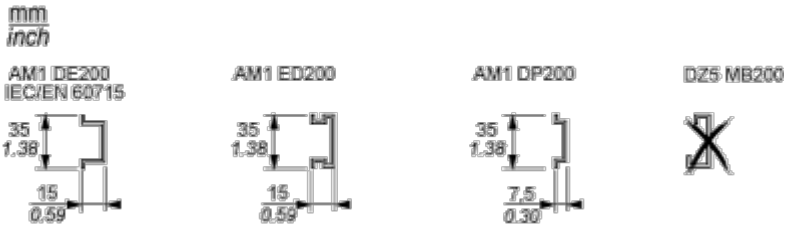
Dimensions



Mounting and Clearance

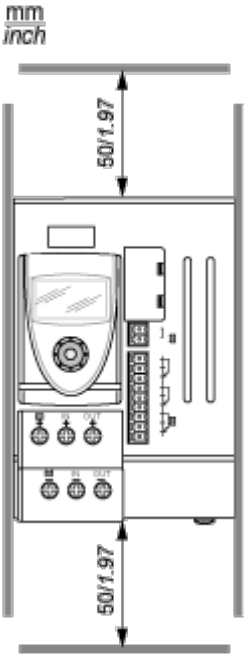
24 Vdc Battery Control Module

Mounting



24 Vdc Battery Control Module

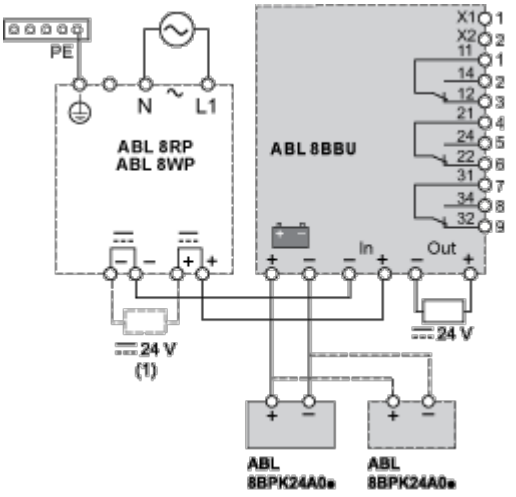
Clearance



Connections and Schema

24 Vdc Battery Control Module

Wiring Diagram



(1) See table below for the maximum unstored charge capacity (µF)

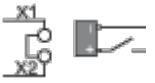
ABL	Max. Unstored Charge Capacity (uF)
8RPS24030	30 000
8RPS24050	50 000
8RPS24100	100 000
8RPM24200	100 000
8WPS24200	100 000
8WPS24400	100 000

24 Vdc Battery Control Module

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

	No power from the power supply		Power from the power supply
	Alarm or device not supplied		No alarm
	No power from the battery pack		Power from the battery pack

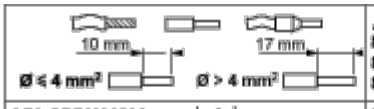
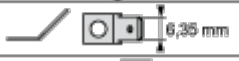
Inputs States (Dry Contact)

	Operational battery		Battery inhibited

Wiring Requirements

Cable Types and Wire Sizes

IEC / EN

		ABL 8RPS24030 8RPS24050 8RPS24100	ABL 8RPM24200 8WPS24200 8WPS24400
ABL 8BBU24200	In + / –	1...4 mm²	4... 10 mm²
	+ / –	6 mm²	–
	Out + / –	6 mm²	–
ABL 8BBU24400	In + / –	1...4 mm²	4... 10 mm²
	+ / –	10 mm²	–
	Out + / –	10 mm²	–
	⏚	10 mm²	
		–	
OFF / PSU / Alarm /		0,14...1 mm²	

UL

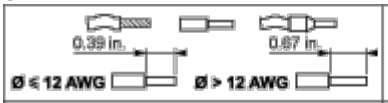
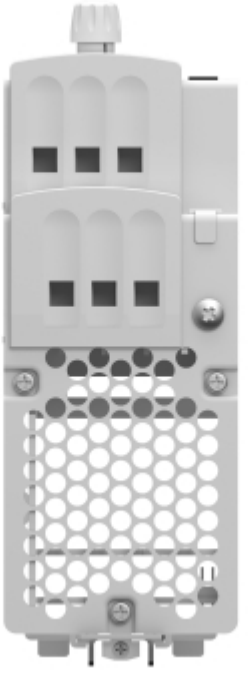
		ABL 8RPS24030 8RPS24050 8RPS24100	ABL 8RPM24200 8WPS24200 8WPS24400
ABL 8BBU24200	In + / –	16...12 AWG	12...6 AWG
	+ / –	10 AWG	–
	Out + / –	10 AWG	–
ABL 8BBU24400	In + / –	16...12 AWG	12...6 AWG
	+ / –	6 AWG	–
	Out + / –	6 AWG	–
	⏚	6 AWG	
		–	
OFF / PSU / Alarm /		26... 16 AWG	

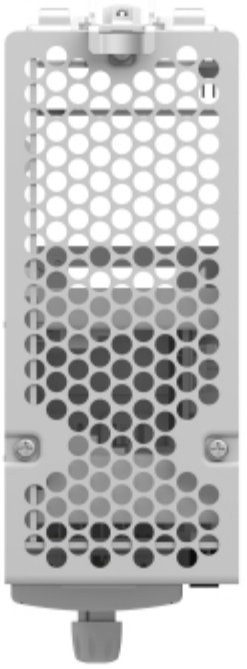
Image of product / Alternate images

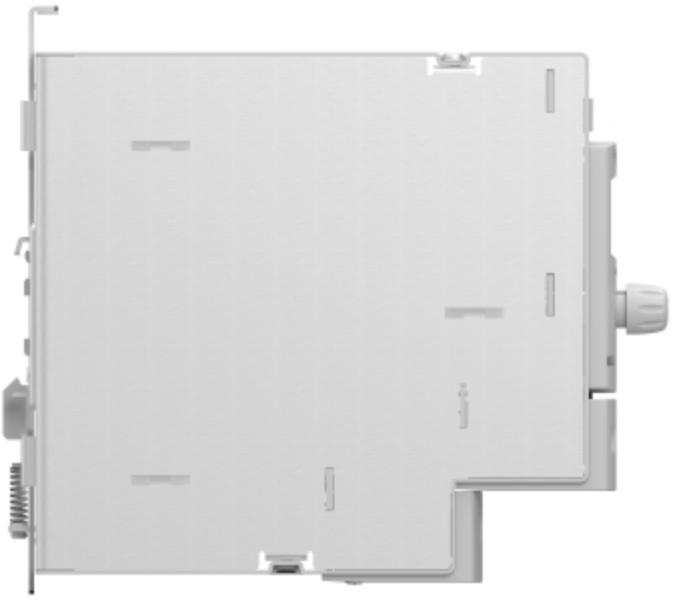
Alternative












Schneider Electric
ABL8BBU24200