Product datasheet

Specifications





battery control module - 24..28.8 V DC - 24 V - 20 A - for regulated SMPS

ABL8BBU24200

! Discontinued on: May 1, 2024

① To be discontinued

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 Δ	

Complementary

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 mm² For input connection: screw type terminals, connection capacity: 2 x 0.52 x 10 mm² AWG 20AWG 8 For output connection: screw type terminals, connection capacity: 2 x 0.52 x 10 mm² 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	C/O relay for alarm status C/O relay for battery status C/O relay for power supply status C/D screen for module status		
Width	60 mm		

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



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	
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	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

racking Units	
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

Jun 7, 2024

18 months



Green PremiumTM 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-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 >





Transparency RoHS/REACh

Well-being performance

	Mercury Free	
⊘	Rohs Exemption Information	Yes
	Pvc Free	

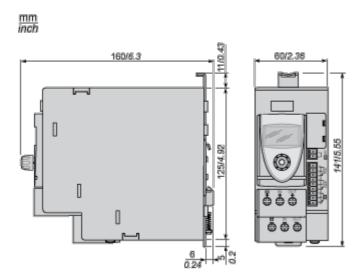
Certifications & Standards

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		

Dimensions Drawings

24 Vdc/20 A Battery Control Module

Dimensions



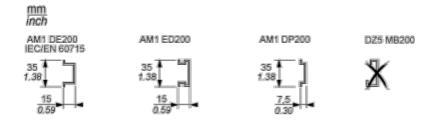
Product datasheet

ABL8BBU24200

Mounting and Clearance

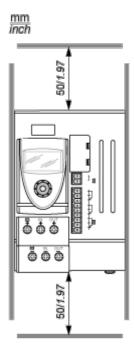
24 Vdc Battery Control Module

Mounting



24 Vdc Battery Control Module

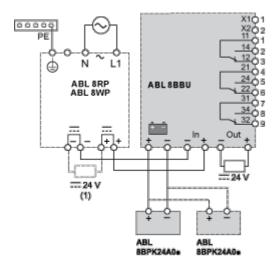
Clearance



Connections and Schema

24 Vdc Battery Control Module

Wiring Diagram



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

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)

Wiring Requirements

Cable Types and Wire Sizes

IEC / EN			
10 mm	Ø > 4 mm²	ABL 8RPS24030 8RPS24050 8RPS24100	ABL 8RPM24200 8WPS24200 8WPS24400
ABL 8BBU24200	In + ∤—	14 mm ²	4 10 mm ²
	■ + ℓ =	6 mm ²	_
	Out + /-	6 mm ²	_
ABL 8BBU24400	In + / -	14 mm ²	4 10 mm ²
	= +/-	10 mm ²	_
	Out + /-	10 mm ²	=
0+		10 mm ²	
6,35 mm		_	
OFF / PSU / Alarm /		0,141 mm ²	

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
	□ +/ -	10 AWG	_
	Out + / -	10 AWG	_
ABL 8BBU24400	In + /—	1612 AWG	126 AWG
	i + 1−	6 AWG	_
	Out+/-	6 AWG	=
	⊕÷	6 AWG	
_/	0.25 in.	-	
OFF / PSU / Ala	oran & 🔤	26 16 AWG	