# Product data sheet

Specifications





# battery control module, phaseo ABL7 ABL8, 24 to 28.8V DC, phaseo ABL7 ABL8, 24V, 40A, for regulated SMPS

ABL8BBU24400

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

### Price\*: 897.00 USD

### Main

Range Of Product	Phaseo
Product Or Component Type	Battery control module
Input Voltage	2428.8 V DC
Output Voltage	(Ubattery-0.5) V battery mode DC (Uin-0.25) V nominal mode DC
Maximum Output Current	40 A

## Complementary

Input Voltage Limits	2230 V
Maximum Power Dissipation In W	12 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 1.5 x In Against short-circuits battery-backed mode, automatic reset Against short-circuits power-supplied mode
Connections - Terminals	Diagnostic relay removable screw terminal block 1 x 0.75 mm <sup>2</sup> Input connection screw type terminals 2 x 0.52 x 10 mm <sup>2</sup> AWG 20AWG 8 Output connection screw type terminals 2 x 0.52 x 10 mm <sup>2</sup> AWG 20AWG 8
Fixing Mode	By clips 35 mm symmetrical DIN rail horizontal By clips 35 mm symmetrical DIN rail vertical
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 %
Local Signalling	for alarm status 1 C/O relay for battery status 1 C/O relay for power supply status 1 C/O relay for module status LCD screen
Net Weight	1.54 lb(US) (0.7 kg)

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

### Environment

Product Certifications	RCM
	EAC
Standards	UL 508
	CSA C22.2 No 60950-1
Ambient Air Temperature For	-13140 °F (-2560 °C)
Operation	10110 1 (2000 0)
Ambient Air Temperature For	-40185 °F (-4085 °C)
Storage	-40105 F (-4065 C)
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Environmental Characteristic	EMC IEC 61000-6-3
	EMC IEC 61000-6-2
	Safety IEC 60950-1
	Safety EN/IEC 61204-3
	Saloty 2.11/20012010
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 VDE 0106-1
Relative Humidity	090 % during operation
	095 % during storage
Mtbf Reliability	707945 H at 24 V DC with UTE C80-810 calculation method
Vibration Resistance	2 gn 11.9…150 Hz)IEC 61131-2
	3.5 mm 311.9 Hz)IEC 61131-2
	3.3 mm 3 11.8 m2/IEC 01131-2

# Ordering and shipping details

Category	US1CP1222525
Discount Schedule	CP12
Gtin	3389119406833
Returnability	No
Country Of Origin	РН

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	4.41 in (11.2 cm)
Package 1 Width	7.09 in (18 cm)
Package 1 Length	7.28 in (18.5 cm)
Package 1 Weight	2.97 lb(US) (1.349 kg)
Unit Type Of Package 2	S04
Number Of Units In Package 2	8
Package 2 Height	11.81 in (30 cm)
Package 2 Width	15.75 in (40 cm)
Package 2 Length	23.62 in (60 cm)
Package 2 Weight	26.70 lb(US) (12.11 kg)

# **Contractual warranty**

Warranty

18 months

## Sustainability Screen Premium

**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

Mercury Free
Rohs Exemption Information Yes
Pvc Free

### **Certifications & Standards**

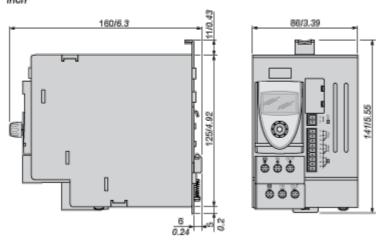
Reach Regulation	REACh Declaration		
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)		
China Rohs Regulation	China RoHS declaration		
Environmental Disclosure	Product Environmental Profile		
Circularity Profile	End of Life Information		
California Proposition 65	WARNING: 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/40 A Battery Control Module

#### Dimensions

mm inch



#### Mounting and Clearance

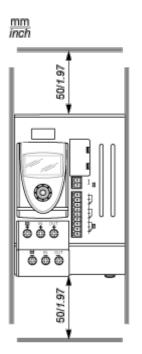
#### 24 Vdc Battery Control Module

#### Mounting



#### 24 Vdc Battery Control Module

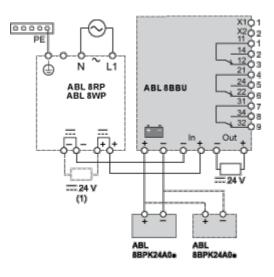
#### Clearance



#### 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)

	No power from the power supply	11 14 120	Power from the power supply
21 28 28 0	Alarm or device not supplied	21 28 222 0	No alarm
<sup>31</sup> 0 340 320	No power from the battery pack	31 330 1320	Power from the battery pack

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

	Operational battery		Battery inhibited	
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#### Wiring Requirements

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

IEC / EN			
10 mm ■ Ø≤4 mm <sup>2</sup> □	Ø>4 mm <sup>2</sup> □	ABL 8RPS24030 8RPS24050 8RPS24100	ABL 8RPM24200 8WPS24200 8WPS24400
ABL 8BBU24200	In + /—	14 mm <sup>2</sup>	4 10 mm <sup>2</sup>
	🚞 + /	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>
	🚞 + / -	10 mm <sup>2</sup>	_
	Out + /-	10 mm <sup>2</sup>	-
0+		10 mm <sup>2</sup>	
6,35 mm		-	
OFF / PSU / Alarm /		0,141 mm <sup>2</sup>	5

UL

0.39 in. Ø ≤ 12 AWG □		ABL 8RPS24030 8RPS24050 8RPS24100	ABL 8RPM24200 8WPS24200 8WPS24400
ABL 8BBU24200	in + /-	1612 AWG	126 AWG
	🚞 + /	10 AWG	-
	Out + 1 -	10 AWG	-
ABL 8BBU24400	In + /	1612 AWG	126 AWG
	🚞 +/-	6 AWG	-
	Out + /-	6 AWG	-
	0÷	6 AWG	
	0.25 in.	-	
OFF / PSU / Ala	um / 💼	26 16 AWG	