# ABL8BBU24200

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



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 cur-	20 A

# Complementary

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Input voltage limits	2230 V	
Current consumption	<= 40.6 A 0.1 mA, no load 0.6 A, on load	
Power dissipation in W	< 7 W	
Activation threshold	Adjustable 2236 V	
Number of output channels	1	
Residual ripple	<= 200 mV	
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	Removable screw terminal block for diagnostic relay, connection capacity: 1 x 0.75 mm² Screw type terminals for input connection, connection capacity: 2 x 0.52 x 10 mm²AWG gauge208 Screw type terminals for output connection, connection capacity: 2 x 0.52 x 10 mm²AWG gauge208	
Fixing mode	By clips on 35 mm symmetrical DIN rail, operating position: horizontal By clips on 35 mm symmetrical DIN rail, operating position: vertical	
Name of test	Electrostatic discharges conforming to EN/IEC 61000-4-2 Emission conforming to EN 61000-6-3 Induced electromagnetic field conforming to EN/IEC 61000-4-6 level 3 Radiated electromagnetic field conforming to EN/IEC 61000-4-3 level 3 Rapid transient conforming to IEC 61000-4-4 level 3 Surge conforming to EN/IEC 61000-4-5 level 2 Conducted/Radiated emissions conforming to EN 55022 Class B, 20 % derating factor	
Local signalling	1 C/O relay , function: alarm status 1 C/O relay , function: battery status 1 C/O relay , function: power supply status LCD screen , function: module status	
Product weight	0.5 kg	

#### Environment

IP degree of protection	IP10 conforming to EN/IEC 60529	
Ambient air temperature for operation	-2560 °C	
Ambient air temperature for storage	-4085 °C	
Relative humidity	090 % during operation	
	095 % during storage	
Class of protection against electric shock	Class II conforming to VDE 0106-1	

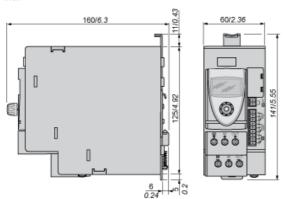
APIC	0 /( 44.0 450.11 ) ( 1 - 5)////50 04404.0	
Vibration resistance	2 gn (f = 11.9150 Hz) conforming to EN/IEC 61131-2	
	3.5 mm (f = 311.9 Hz) conforming to EN/IEC 61131-2	
Dielectric strength	500 V between input and ground	
9	500 V between output and ground	
Product certifications	CCSAus	
	UL	
Environmental characteristic	EMC conforming to EN 61000-6-3	
	EMC conforming to EN/IEC 61000-6-2	
	Safety conforming to EN/IEC 60950-1	
	Safety conforming to EN/IEC 61204-3	
RoHS EUR status	Compliant	
RoHS EUR conformity date	0501	

# **ABL8BBU24200**

# 24 Vdc/20 A Battery Control Module

# Dimensions

mm inch



# Product data sheet Mounting and Clearance

# ABL8BBU24200

# 24 Vdc Battery Control Module

# Mounting









# 24 Vdc Battery Control Module

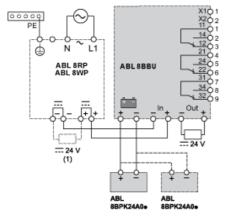
#### Clearance



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# 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
8RPS24200	100 000
8RPS24400	100 000

# 24 Vdc Battery Control Module

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

110 140 120	No power from the power supply	110 140 120	Power from the power supply
21 0 24 0 122 0	Alarm or device not supplied	21 0 24 0 122 0	No alarm
31 0 32 0	No power from the battery pack	31 O 34 O 32 O	Power from the battery pack

# Inputs States (Dry Contact)

Opera	erational battery	X1	Battery inhibited
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# Wiring Requirements

# Cable Types and Wire Sizes

# IEC / EN

Ø ≤ 4 mm²	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>
	iiii + / —	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>i</b> + /−	10 mm <sup>2</sup>	_
	Out + / -	10 mm <sup>2</sup>	-
	⊕+	10 mm <sup>2</sup>	
6,35 mm		-	
OFF / PSU / Alarm /		0,141 mm	2

#### UL

0.39 in. Ø ≤ 12 AWG	0.67 in.	ABL 8RPS24030 8RPS24050 8RPS24100	ABL 8RPM24200 8WPS24200 8WPS24400
ABL 8BBU24200	In + / -	1612 AWG	126 AWG
	iii + /	10 AWG	-
	Out + / -	10 AWG	-
ABL 8BBU24400	In + / -	1612 AWG	126 AWG
	<b>Ⅲ</b> +/−	6 AWG	-
	Out + /-	6 AWG	-
⊕÷		6 AWG	
_/	0.25 in.	_	
OFF / PSU / Ala	rm / 🔤	26 16 AWG	