



## Main

Range of Product	Phaseo
Product or Component Type	Battery control module
Input voltage	24...28.8 V DC
Output voltage	(U <sub>battery</sub> -0.5) V battery mode DC (U <sub>in</sub> -0.25) V nominal mode DC
Maximum output current	40 A

## Complementary

Input voltage limits	22...30 V
Maximum power dissipation in W	12 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 1.5 x I <sub>n</sub> 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 0.5...2 x 10 mm <sup>2</sup> AWG 20...AWG 8 Output connection screw type terminals 2 x 0.5...2 x 10 mm <sup>2</sup> AWG 20...AWG 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 EN/IEC 61000-4-2 Emission EN 61000-6-3 Induced electromagnetic field EN/IEC 61000-4-6 level 3 Radiated electromagnetic field EN/IEC 61000-4-3 level 3 Rapid transient IEC 61000-4-4 level 3 Surge EN/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)

## 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 EN 61000-6-3 EMC EN/IEC 61000-6-2 Safety EN/IEC 60950-1 Safety EN/IEC 61204-3

IP degree of protection	IP20 conforming to EN/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	0...90 % during operation 0...95 % during storage
MTBF reliability	24 V with UTE C80-810
Vibration resistance	2 gn 11.9...150 Hz)EN/IEC 61131-2 3.5 mm 3...11.9 Hz)EN/IEC 61131-2







## Ordering and shipping details

Category	22525 - ABL8 AND ABL7 POWER SUPPLIE
Discount Schedule	CP12
GTIN	3389119406833
Nbr. of units in pkg.	1
Package weight(Lbs)	2.97 lb(US) (1.349 kg)
Returnability	No
Country of origin	PH

## Packing Units

Unit Type of Package 1	PCE
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)
Unit Type of Package 2	S04
Number of Units in Package 2	8
Package 2 Weight	26.70 lb(US) (12.11 kg)
Package 2 Height	11.81 in (30 cm)
Package 2 width	15.75 in (40 cm)
Package 2 Length	23.62 in (60 cm)
Unit Type of Package 3	S06
Number of Units in Package 3	60
Package 3 Weight	199.83 lb(US) (90.64 kg)
Package 3 Height	28.94 in (73.5 cm)
Package 3 width	23.62 in (60 cm)
Package 3 Length	31.50 in (80 cm)

## Offer Sustainability

Sustainable offer status	Green Premium product
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	 <a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	 <a href="#">Yes</a>
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>
Circularity Profile	 <a href="#">End Of Life Information</a>
PVC free	Yes

## Contractual warranty

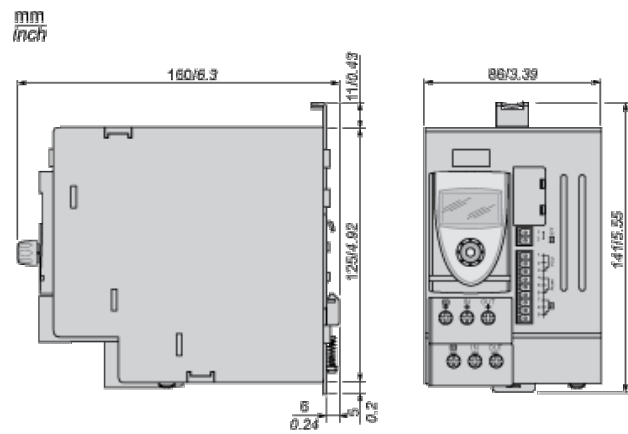
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Warranty	18 months
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24 Vdc/40 A Battery Control Module

Dimensions

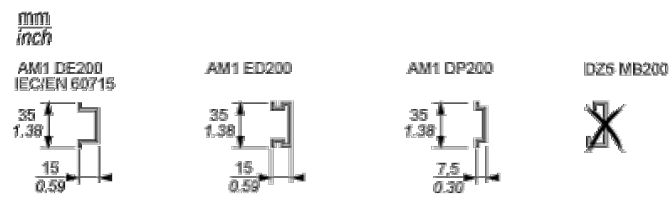


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24 Vdc Battery Control Module

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Mounting

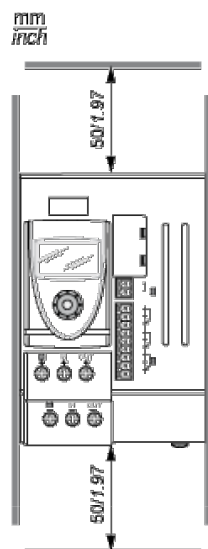


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24 Vdc Battery Control Module

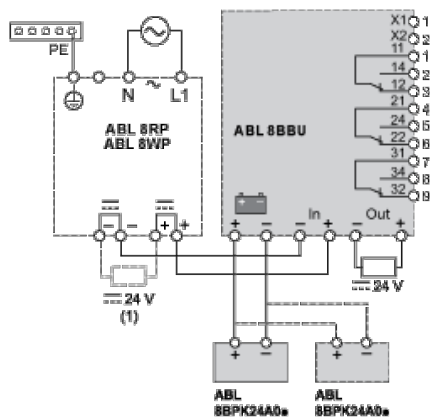
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Clearance



## 24 Vdc Battery Control Module

### Wiring Diagram



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

ABL	Max. Unstored Charge Capacity ( $\mu\text{F}$ )
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 ( $U = 24 \text{ Vdc}$ : $I > 5 \text{ mA}$ , $U = 230 \text{ Vac}$ : $I < 500 \text{ mA}$ )

	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
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### Wiring Requirements

## Cable Types and Wire Sizes

IEC / EN

		ABL 8RPS24030 8RPS24050 8RPS24100	ABL 8RPM24200 8WPS24200 8WPS24400
	$\varnothing \leq 4 \text{ mm}^2$		
	$\varnothing > 4 \text{ mm}^2$		
<b>ABL 8BBU24200</b>	In + / -	1...4 mm <sup>2</sup>	4... 10 mm <sup>2</sup>
	 + / -	6 mm <sup>2</sup>	-
	Out + / -	6 mm <sup>2</sup>	-
<b>ABL 8BBU24400</b>	In + / -	1...4 mm <sup>2</sup>	4... 10 mm <sup>2</sup>
	 + / -	10 mm <sup>2</sup>	-
	Out + / -	10 mm <sup>2</sup>	-
	 +	10 mm <sup>2</sup>	-
		-	-
 OFF / PSU / Alarm / 		0,14... 1 mm <sup>2</sup>	-

UL

		ABL 8RPS24030 8RPS24050 8RPS24100	ABL 8RPM24200 8WPS24200 8WPS24400
	$\varnothing \leq 12 \text{ AWG}$		
	$\varnothing > 12 \text{ AWG}$		
<b>ABL 8BBU24200</b>	In + / -	16... 12 AWG	12... 8 AWG
	 + / -	10 AWG	-
	Out + / -	10 AWG	-
<b>ABL 8BBU24400</b>	In + / -	16... 12 AWG	12... 6 AWG
	 + / -	6 AWG	-
	Out + / -	6 AWG	-
	 +	6 AWG	-
		-	-
 OFF / PSU / Alarm / 		26... 16 AWG	-