

# Product datasheet

Specifications



## battery - 24 V DC - 75 A - 7 AH - for battery control module

ABL8BPK24A12

### Main

|                           |  |
|---------------------------|--|
| Range of product          | Phaseo   |
| product or component type | Battery module                                     |
| Input voltage             | 24 V DC  |
| Output voltage            | 24 V DC  |
| Maximum output current    | 75 A   |
| Battery capacity          | 12 Ah  |
| Holding time              | < 20 h at 0.6 A, 20 °C<br>> 5 min at 31.3 A, 20 °C |

### Complementary

|                         |   |
|-------------------------|---|
| Input voltage limits    | 21...29 V   |
| Charging time           | 72 h  |
| Load current            | 1.2 A   |
| Output protection type  | Against overload and short-circuits, protection technology: 2 x 30 A automotive type fuses  |
| Connections - terminals | For input connection: screw type terminals, connection capacity: 4 x 0.5...4 x 10 mm <sup>2</sup> AWG 20...AWG 8<br>For output connection: screw type terminals, connection capacity: 4 x 0.5...4 x 10 mm <sup>2</sup> AWG 20...AWG 8 |
| Self-discharge rate     | 15 %, 6 months<br>9 %, 3 months<br>3 %, 1 month   |
| Fixing mode             | By 2 screws diameter: 5 mm on horizontal panel, operating position: horizontal<br>By 4 screws diameter: 5 mm on vertical panel, operating position: vertical  |
| Output coupling         | Parallel  |
| Operating altitude      | 2000 m  |
| Service life in hours   | 11000 h at 40 °C<br>15000 h at 35 °C<br>22000 h at 30 °C<br>31000 h at 25 °C<br>44000 h at 20 °C<br>5000 h at 50 °C<br>7300 h at 45 °C  |
| marking                 | CE  |
| net weight              | 12 kg   |

### Environment

|                        |           |
|------------------------|-----------|
| Product certifications | CTP<br>UL |
|------------------------|-----------|

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

|                                       |  |
|---------------------------------------|--|
| Ambient air temperature for operation | 0...40 °C  |
| Ambient air temperature for storage   | -20...50 °C  |
| IP degree of protection               | IP10 conforming to IEC 60529   |
| Overvoltage category                  | Class 3 conforming to VDE 0106-1   |
| Vibration resistance                  | 2 gn (f= 11.9...150 Hz) conforming to IEC 61131-2<br>3.5 mm (f= 3...11.9 Hz) conforming to IEC 61131-2 |

## Packing Units

|                              |            |
|------------------------------|------------|
| Unit Type of Package 1       | PCE        |
| Number of Units in Package 1 | 1          |
| Package 1 Height             | 19.500 cm  |
| Package 1 Width              | 20.000 cm  |
| Package 1 Length             | 33.000 cm  |
| Package 1 Weight             | 10.856 kg  |
| Unit Type of Package 2       | S06        |
| Number of Units in Package 2 | 10         |
| Package 2 Height             | 75.000 cm  |
| Package 2 Width              | 60.000 cm  |
| Package 2 Length             | 80.000 cm  |
| Package 2 Weight             | 120.270 kg |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

# Sustainability

**Green Premium™ label** is Schneider Electric’s commitment to delivering products with best-in-class 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

## Well-being performance

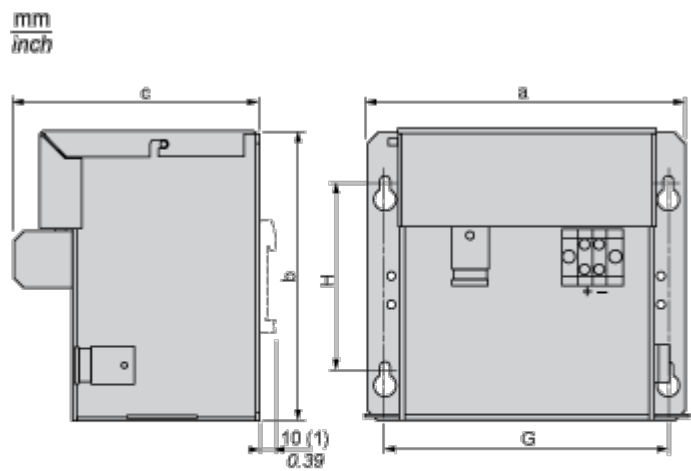
 Pvc Free

|                          |   |
|--------------------------|---|
| Reach Regulation         | <a href="#">REACH Declaration</a>   |
| Eu Rohs Directive        | Not applicable, out of EU RoHS legal scope  |
| China Rohs Regulation    | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information |
| Environmental Disclosure | <a href="#">Product Environmental Profile</a>   |
| Circularity Profile      | <a href="#">End of Life Information</a>   |

Dimensions Drawings

24 Vdc Battery Module

Dimensions



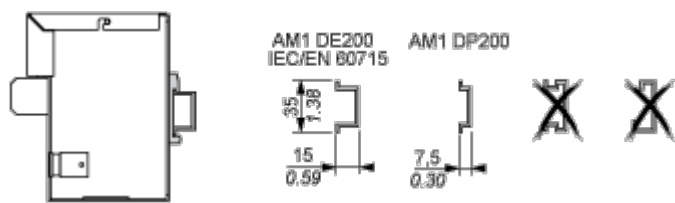
| ABL       | a        | b          | c   | G        | H        |
|-----------|----------|------------|-----|----------|----------|
| 8BPK24A03 | 184/7.24 | 138,5/5.45 | 131 | 156/6.14 | 83/3.27  |
| 8BPK24A07 | 170/6.69 | 155,5/6.12 | 131 | 152/5.98 | 100/3.94 |
| 8BPK24A12 | 238/9.29 | 155,5/6.12 | 131 | 218/3.94 | 100/3.94 |

(1) ABL8BPK24A03 (with kit ABL1A02)

Mounting and Clearance

24 Vdc Battery Module































Mounting



## Connections and Schema

## Wiring Requirements

## Cable Types and Wire Sizes

|  |   |   |   |
|--|---|---|---|
|   |  | <b>ABL</b><br><b>8BBU24200</b>  | <b>ABL</b><br><b>8BBU24400</b>  |
| <b>ABL 8BPK2400</b>  ± - mm <sup>2</sup> /AWG |   | 6/10  | 10/6  |
|   |   |  |  |
|   |   |  |  |
|   |   |  |  |
|   |   |  |  |
|   |   |  |  |
|   |   |  |  |
|   |   |  |  |
|   |   |  |  |
|   |   |  |  |



Paralleling 2 x ABL8BPK24A12

Wiring Diagram

