

Product data sheet

Specifications



battery control module, phaseo
ABL7 ABL8, 24 to 28.8V DC,
phaseo ABL7 ABL8, 24V, 20A, for
regulated SMPS

ABL8BBU24200

⚠ To be discontinued on: Dec 31, 2025

⚠ To be discontinued

Main

| | |
|---------------------------|--|
| Range Of Product | Phaseo |
| Product Or Component Type | Battery control module |
| Input Voltage | 24...28.8 V DC |
| Output Voltage | (U _{battery} -0.5) V in battery mode DC (U _{in} -0.25) V in nominal mode DC |
| Maximum Output Current | 20 A |

Complementary

| | |
|--------------------------------|--|
| Input Voltage Limits | 22...30 V |
| Maximum Power Dissipation In W | 7 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, protection technology: 1.5 x I _n 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 mm ² For input connection: screw type terminals, connection capacity: 2 x 0.5...2 x 10 mm ² AWG 20...AWG 8 For output connection: screw type terminals, connection capacity: 2 x 0.5...2 x 10 mm ² AWG 20...AWG 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 | 1 C/O relay for alarm status 1 C/O relay for battery status 1 C/O relay for power supply status LCD screen for module status |
| Width | 60 mm |

| | |
|------------|--------|
| 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 | -25...60 °C |
| Ambient Air Temperature For Storage | -40...85 °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 | 0...90 % during operation 0...95 % during storage |
| Mtbf Reliability | 718708 H at 24 V DC with UTE C80-810 calculation method |
| Vibration Resistance | 2 gn (f= 11.9...150 Hz) conforming to IEC 61131-2 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 | 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

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-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](#)

California Proposition 65

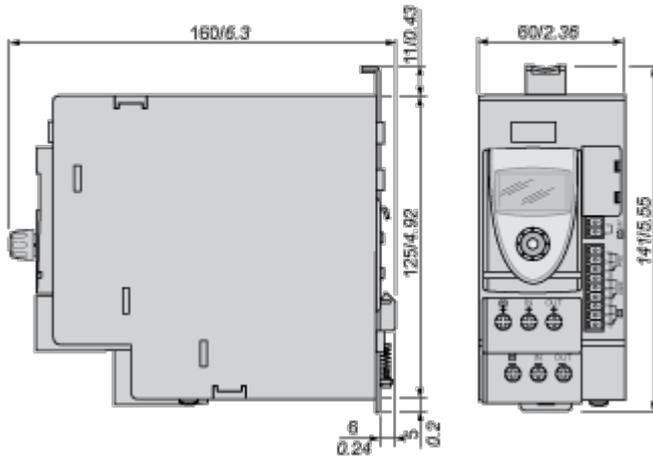
WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Dimensions Drawings

24 Vdc/20 A Battery Control Module

Dimensions

mm
inch



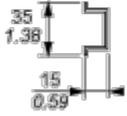
Mounting and Clearance

24 Vdc Battery Control Module

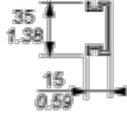
Mounting

mm
inch

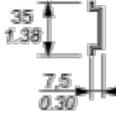
AM1 DE200
IEC/EN 60715



AM1 ED200



AM1 DP200



DZ5 MB200



24 Vdc Battery Control Module

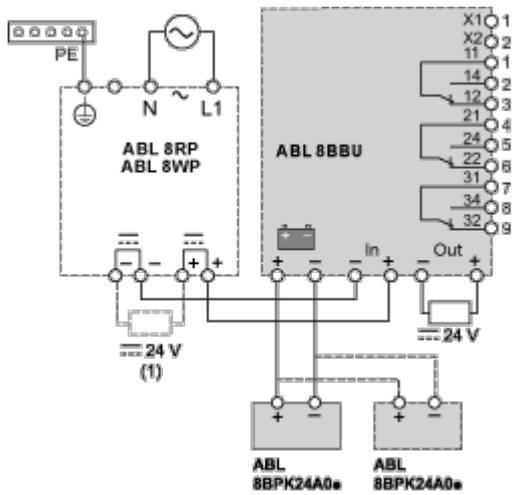
Clearance



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 (µF) |
|-----------|------------------------------------|
| 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)

| | | | |
|---|---------------------------------------|---|------------------------------------|
|  | <p>No power from the power supply</p> |  | <p>Power from the power supply</p> |
|  | <p>Alarm or device not supplied</p> |  | <p>No alarm</p> |
|  | <p>No power from the battery pack</p> |  | <p>Power from the battery pack</p> |

Inputs States (Dry Contact)

| | | | |
|---|----------------------------|---|--------------------------|
|  | <p>Operational battery</p> |  | <p>Battery inhibited</p> |
|---|----------------------------|---|--------------------------|

Wiring Requirements

Cable Types and Wire Sizes

IEC / EN

| | | ABL 8RPS24030 8RPS24050 8RPS24100 | ABL 8RPM24200 8WPS24200 8WPS24400 |
|---------------|---------------------|--|--|
| ABL 8BBU24200 | In + / - | 1...4 mm² | 4... 10 mm² |
| | + / - | 6 mm² | - |
| | Out + / - | 6 mm² | - |
| ABL 8BBU24400 | In + / - | 1...4 mm² | 4... 10 mm² |
| | + / - | 10 mm² | - |
| | Out + / - | 10 mm² | - |
| | | 10 mm² | - |
| | | - | - |
| | OFF / PSU / Alarm / | 0,14... 1 mm² | - |

UL

| | | ABL 8RPS24030 8RPS24050 8RPS24100 | ABL 8RPM24200 8WPS24200 8WPS24400 |
|---------------|---------------------|--|--|
| ABL 8BBU24200 | In + / - | 16... 12 AWG | 12... 6 AWG |
| | + / - | 10 AWG | - |
| | Out + / - | 10 AWG | - |
| ABL 8BBU24400 | In + / - | 16... 12 AWG | 12... 6 AWG |
| | + / - | 6 AWG | - |
| | Out + / - | 6 AWG | - |
| | | 6 AWG | - |
| | | - | - |
| | OFF / PSU / Alarm / | 26... 16 AWG | - |