

BEN EB02 Battery System

460 V | LFP | 100 Ah

This energy storage solution with integrated battery management system is designed for industrial applications in tough environments



Part no.: 100766

ELECTRICAL DATA

System voltage	360 – 518 V DC
Nominal voltage	460.8 V
Nominal energy	46.08 kWh
Max. charge current	50 A
Max. peak charge current	100 A (max. 10 sec)
Max. discharge current	112 A
Max. peak discharge current	300 A (max. 10 sec)

MECHANICAL DATA

Dimensions battery system	
E-box	775 mm x 357 mm x 162 mm
Battery module	775 mm x 357 mm x 162 mm
Base	Rittal VX 8880.000
Battery modules	6
Single battery module	61 kg
Total weight	380 kg (without base)

SYSTEM INTERFACES

PROFINET	1x M12 4-Pin D-Coded female
Battery poles	Amphenol SLPPB35BSR
Control contacts	M12 A coded 4 pole
External Power Supply	M12 T coded 4 pole

PROFINET

Device function	PROFINET IO device
Transfer rate	100Mbps
Update rate	100ms (RT, adjustable)
PROFINET IO version	2.32 / 2.35
Supported protocols	SNMP, LLDP
Supported MIBs	MIB2
Real-time class	RT_CLASS_1
Netload class	II
Conformance class	B

AMBIENT CONDITIONS

Vibration & Shock

EN IEC 60721-3-2

Transport (2M5)

EN IEC 60721-3-3

Operation (3M2)

Basic module certification UN38.3

Ambient temperature

- **charge** -5°C to 55°C*
- **discharge** -20°C to 55°C*
- **storage** -30°C to 55°C

* full temperature range with
current derating

Relative humidity

- **Without restriction** 0% to 70%, no condensation
- **Reduced lifetime** 70% to 85%

Altitude for operation < 4000m above sea level

Protection rating IP20 (as per DIN EN 60529)

Protection class II

Insulation 6 kV
DIN EN IEC 60664-1

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