

Product Specification

NA12-100

1. Name and address of the manufacturer:

Axcom Power Solutions GmbH
Carl-Friedrich-Benz-Straße 15
47877 Willich
Germany

2. Characteristics

Type: Sodium-Ion Battery (NA+)
Technology
Voltage: 24 V
Capacity: 100 Ah (typical)
Terminal: M8 connector
Dimension: 527 x 273 x 117 mm
Weight: 23,20 kg

2.1	Charge voltage	31,6 V
2.2	Nominal voltage	24 V
2.3	Cut-off voltage	16 V
2.4	Nominal capacity	100 Ah
2.5	Standard charge current and Charging voltage	1. Phase: Constant-current charge at 0.2C up to 31,6V 2. Phase: Constant-voltage charge until charge current decline to 0.05C
2.6	Charging time	3 hours
2.7	Max. charge current	100 A
2.8	Max. discharge current	100 A
2.9	Operating temperature	Charging: 0°C – 55°C Discharging: -20°C – 60°C

2.10	Storage temperature and Humidity Range	1 month: -20 to 45°C 3 months: -10 to 45°C 6 months: 0 to 25°C Humidity 45%-90%
2.11	Storage	For long-term storage, perform a charge cycle every 3 months. Recommended storage temperature is $25 \pm 5^\circ\text{C}$ of SOC 50-60%.
2.12	Cycles	> 4,000 at 80% discharge (0.5C / 25°C)
2.13	Internal resistance	$\leq 15\text{m}\Omega$ (50% SOC, AC measurement at 1 kHz)
2.14	Battery Management System	Protection against: -Overcharge; -Over-discharge -Overcurrent -Short circuit

3. Image

