

Delta Lithium-ion Battery Module

HV Energy Storage Application

DBS48V60S

High voltage design applied for high power application.

Delta DBS48V60S battery module is an excellent energy source with a long service life for applications such as commercial energy storage system and renewable energy storage system. Its ready-to-go design provides the advantages of flexible and easy configuration of the battery system ranging from 48V to 900V based on the application requirement.

To ensure the safety and reliability of the battery module, it has a built-in Cell Monitor Unit (CMU) to manage the cell balance and collect individual cell temperature, voltage information. The CMU of each module communicates with the central BMU (Battery Management Unit) to protect battery modules from abnormal conditions, such as over temperature, over charging or over-discharging. The built-in interface of communication allows remote monitoring and control by Energy Management System (EMS) to perform functions of peak shaving, time shifting, utility ancillary services etc.



Special Features

High Safety

- Certification: UN38.3
- Built-in CMU (Cell Monitor Unit) to monitor individual cell voltage, temperature and manage cell balance
- Built-in isolated CAN Bus among CMUs & BMU for high voltage battery string operation

Easy installation and Service

- Plug-in power bus connection
- High voltage protection during installation and service
- Isolated CAN Bus cable (loop connection or daisy chain) for high voltage battery string

Excellent Manageability

- A Delta designed BMU (Battery Management Unit) is provided to manage and protect individual cell of each module
- Multi-units or multi-sites management is feasible with BMU plus extra master-slave control

Flexible Capacity Expansion

- Series Expansion up to ~900VDC
- Parallel expansion up to MWh capacity

Order P/N: [HBM100C01401Axx](#)

Product Specification

Nominal Voltage	51.8 V
Nominal Capacity	60Ah
Nominal Energy	3.10KWh
Dimension (mm)	199 (W)x 187 (H)x 537 (L)
Weight	Approx. 24 Kg
Certifications	UN 38.3
Cycle Life @25°C	~ 3,000 cycles ^{*1}
Operating Temperature	Charge: 0°C to +45°C Discharge: -20°C to +45°C
Interface	CAN 2.0B (500 kHz)
Discharge Rate	Max. 4C (200A)

*1) SOC range is 90% to 10%. SOC means "State Of Charge".



DELTA
Smarter. Greener. Together.

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Applications

- Residential & Commercial energy storage
- Utility level energy storage and ancillary services



BMU



DBS48V60S
Module



Cabinet / Container

Scale : from 10KWh to MWh



Single cabinet



Cabinets in parallel



MWh-Class Container