

Deye HV Control Box BOS-A-PDU-2

Product code: ME.BMS.DEYE.BOS-A



Manufacturer	DEYE
Country of origin	China
Warranty	10
Weight	30
Width	572
Height	142.2
Depth	632

Deye BOS-A-PDU-2 is a high-voltage control unit designed for energy storage systems from the **BOS-A** series. The controller operates within a voltage range of **200-1000 V DC** and supports a maximum charging and discharging current of **160 A**. The device is equipped, among other things, with an isolating switch, a display for presenting SOC and fault codes, a USB port for BMS updates and two sets of PCS connections, enabling connection to two DC interfaces of the inverter. The operating temperature range is **-20°C to +65°C**, and the enclosure protection rating is **IP20**.

Product variants

Index	Price
Deye HV Control Box BOS-A-PDU-2 ME.BMS.DEYE.BOS-A	Product prices only visible after login. If you do not have an account, please register.

Product description

Deye BOS-A-PDU-2 - 200-1000 V HV control unit for BOS-A systems

Product description

Deye BOS-A-PDU-2 is a high-voltage control unit designed for Deye BOS-A energy storage systems, responsible for connecting the battery cluster with external devices and managing the operation of the HV system. The controller operates within a range of **200-1000 V DC** and supports a maximum charging and discharging current of 160 A. The device panel includes, among other things, an isolating switch, a display showing SOC level and fault codes, high-voltage and alarm indicators, a USB port for BMS updates, communication connectors and two sets of PCS1 and PCS2 terminals enabling connection to two DC interfaces of the inverter. BOS-A-PDU-2 operates at temperatures from -20°C to +65°C, has an IP20 protection rating and is designed to work with BOS-A-Pack7.68 battery modules in scalable energy storage configurations.

Application

- building high-voltage **Deye BOS-A** energy storage systems,
- controlling a cluster using BOS-A-Pack7.68 modules,
- C&I systems requiring operation at voltages up to 1000 V DC,
- installations using two DC inverter interfaces on the energy storage side,
- BOS-A configurations including from 7 to 21 battery modules.

Key features

- operating voltage range: **200-1000 V DC**,
- maximum charging / discharging current: **160 A**,
- operating temperature range: **-20°C to +65°C**,
- protection rating: **IP20**,
- input power supply: **12 ±2% V / 4.15 A**,
- display showing **SOC and fault codes**,
- isolating switch for manual control of the connection between the battery and external devices,
- USB port for BMS updates,
- two sets of **PCS1 / PCS2** connections,
- compatible with BOS-A systems based on **7.68 kWh** modules.

Technical parameters

Parameter	Value
Model	BOS-A-PDU-2
Product type	High-voltage battery cluster control unit
Application	Deye BOS-A energy storage systems
Operating voltage range	200-1000 V DC
Maximum charging / discharging current	160 A
DC input parameters	12 ±2% V / 4.15 A
Operating temperature range	-20°C to +65°C
Protection rating	IP20
Dimensions	572 × 632 × 142.2 mm
Weight	21 kg
Display	SOC and fault code display
HV indicator	Yellow high-voltage hazard indicator
Alarm indicator	Red battery system fault indicator

Isolating switch	Manual control of the connection between the battery cabinet and external devices
USB	BMS update and memory expansion port
COMM1	External 12 V DC power supply connection
COMM2	Communication and power supply
PCS COM	Battery-to-inverter communication terminal
PCS1+ / PCS1-	First positive / negative PCS connection
PCS2+ / PCS2-	Second positive / negative PCS connection
B+ / B-	Common positive / negative battery connection
Bluetooth	Mobile app connection to the energy storage system data acquisition module

Model comparison

The datasheet presents one variant of the **BOS-A-PDU-2** unit, while the BOS-A system itself can be built in several capacity configurations. The system with **7 modules** offers 53.76 kWh of nominal energy and a system voltage of 268.8 V, the configuration with **13 modules** reaches 99.84 kWh and 499.2 V, while the variant with **21 modules** provides 161.28 kWh and 806.4 V. BOS-A-PDU-2 remains the control unit for these configurations, supporting a voltage range up to 1000 V DC and a maximum current of 160 A.

B2B offer

Deye BOS-A-PDU-2 is a control unit designed for completing BOS-A high-voltage energy storage systems. Contact GVOLT for a B2B quotation and to select the appropriate number of BOS-A-Pack7.68 modules, rack cabinet and compatible Deye inverter.