

PDU

Power Distribution Unit

Power Distribution Unit is an essential component of vehicle and marine energy storage systems. Its main function is to distribute electrical currents to various endpoints, connect power supply equipment, and maintain the proper operation of electrical devices.



Technical Specifications

| Model | XBmax5.1L-PDU |
|---|--|
| Operating temperature | -22 °F - 140°F (-30 ~ 60°C) |
| Operating voltage range | DC8 ~ 65 V |
| Maximum bus power Input/output | 20 kW |
| Maximum bus current Input/output | 400 A (450 A, 20 s) |
| Battery bus interface | 100 A x 4 groups |
| DC High-power load interface | 400 A x 1 group |
| DC device interface (Inverter) | 150 A x 3 groups |
| DC device interface (A/C) | 100 A x 1 group |
| DC device interface (DC/DC) | 100 A x 1 group |
| DC device interface with precharge function (Alternator/ Generator) | 100 A x 1 group |
| Terminal form | ≤100 A, fast plug, > 100 A, Glen interface |
| PDU protection level | ≥IP65 |
| Short circuit protection | YES |
| Shell material | Aluminum shell |
| Dimension (L x W x H) | 19.96 x 14.8 x 7.28 (507 x 376 x 185 mm) |
| Weight | 10 kg |

Note: All data are based on ROYPOW standard test procedures. Actual performance may vary according to local conditions