POWERBLOQ 400

Standard Battery Pack Li-Ion
25.48V / 16Ah / 408Wh

Datasheet



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Easy Swap

Including pull-out handles to ensure effortless battery removal in two directions & easy handling.

Smart Status Check

Integrated LED for State of Charge (SoC) and State of Health (SoH).

Fast Charging

Certified for 1C charging – from 20% to 80% in just 35 minutes.

IP65 Protection

Extra robust housing, protected against dust ingress and water jets from any directions.

CANBus

The CANBus-based battery seamlessly integrates into the communication architecture of robotic systems.

Characteristics & Benefits of the POWERBLOQ 400 standard Li-Ion battery pack:

- Worldwide approvals and certification of safety standards
- No development costs, fast time-to-market
- Easy to handle
- State-of-the-art lithium-ion cells
- High discharge performance
- JEITA charging profile optimization
- Numerous and redundant safety features
- 80% of initial capacity after 1.000 cycles

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Worldwide Approvals



No NRE



Fast Time-to-Market



Highest Safety



Highest Quality



Highest Performance



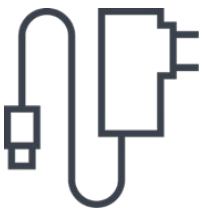
Worldwide Availability



No Obsolescence



Independent of Quantity



Extensive Accessories



Dual Sourcing Strategy



Design-In Support

Characteristics

General	
Delivery Status Battery Capacity	<30%
Compliance Information	IEC62133-2 / CE / UL2054 / CAN ICES-003(B) / NMB-003(B) / FCC / ICES / UKCA / PSE / KC / BSMI / GOST-R / CMIM / CCC / RCM / BIS UN 38.3 / RoHS / REACH *Pending*: IEC62619/UL2271
Operating Temperature	0°C to 45°C (charge) -20°C to 60°C (discharge)
Storage Temperature	-20°C to 60°C max. -20°C to 25°C recommended
Communication Interface	CANBus: CANopen implementation according CiA418
P/N	110376 Each battery has an individual serial number (S/N), which is located on the hardpack label for tracking & traceability.
Country of Origin	Vietnam

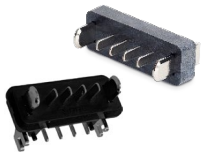
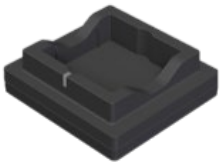
Electrical Parameters	
Nominal Voltage	25.48V
Nominal (Rated) Capacity	16Ah
Standard Charge Current	8.00A (0.5C)
Maximum Charge Current	16.00A (1.0C)
Discharge Current	30.00A
Peak Discharge Current	48.00A
Energy	408Wh
Inrush Current*	max. 300A

Battery Dimensions	
Length	188.50mm ± 1.00mm
Width	85.00mm ± 0.50mm
Thickness	81.50mm ± 0.70mm
Weight	~ 2.08 kg
Contacts	+, - CANBus Sys Detect
Ingress Protection	IP65

Safety Features	
CUV (Cell Under Voltage)	Protection against deep discharge
COV (Cell Over Voltage)	Protection against overcharge
OTC (Over Temperature in Charge)	Protection against overheating while charging
OTD (Over Temperature in Discharge)	Protection against overheating during discharging
OCC (Over Current in Charge)	Protection against overcurrent while charging
OCD (Over Current in Discharge)	Protection against overcurrent during discharging
OL (Overload in Discharge)	Protection against overload during discharging
SCD (Short Circuit in Discharge)	Protection against short circuits during discharging

* Capacitive loads may cause brief inrush current peaks during connection or start-up. Suitable inrush current limitation must be implemented in the application. For more information, please refer to www.rrc-ps.com/faq

Recommended Accessories

Type	Product	P/N	Application
Battery Mating Connector 	RRC-MC35-180-30 RRC-MC35-90-30	211947 212418	Mating connector for standard smart batteries from RRC. Suitable for POWERBLOQ 400 batteries. Available for 90° or 180° PCB mounting.
Battery Charger 	RRC-SMB-PBC	110365	Desktop battery charger for POWERBLOQ 400.

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