

KIDDO 2450 – Lithium-Ion Battery – Data Sheet

General Data

Cathode Chemistry	NMC
Cell Arrangement	7S1P
Nominal Voltage	25.55V
Nominal Capacity	50Ah
Working Voltage	21.0V to 29.4V
Weight	9.85 kg

Cell Specifications

Type	Prismatic
Nominal Capacity	50Ah
Cycles*	≥ 4,000

Operation Data

Charge

Recommended Charge Current	25A
Charge Cut-off Voltage	29.4V

Discharge

Max Continuous Discharge Current	50A (equal to 1 hour usage time)
Peak Current	100A

Temperature

Charging Temperature	0 to 45°C
Discharging Temperature	-20 to 55°C

Battery Management System (BMS)

Communication	Bluetooth (via Monitoring App); CAN-Bus
Cell Balancing	Yes
Cooling	Passive Cooling
Parallel Connection	Up to 10 batteries
Serial Connection	Up to 3 batteries
Monitoring	Smart Phone App, External Display (optional)

Standards and Certification

Safety	CE, IEC62133
Transport	UN38.3
IP Code	65

* 1C charge/1C discharge; 100% DOD; 60% remaining capacity; at 25°C

