

Overview & Amaron LiB Benefits:

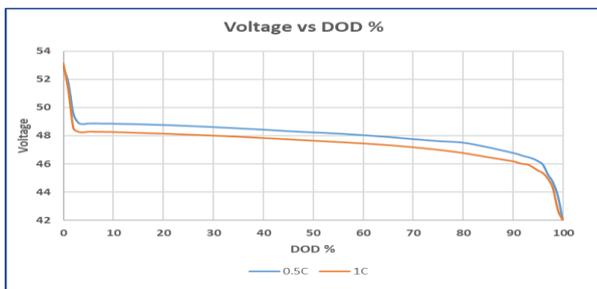
Amara Raja provides safe & Reliable lithium Ion battery solutions with wide range of models for **Stationary & eMobility** applications.

- ✓ Quick charging
- ✓ Long cyclic life
- ✓ High specific energy / energy density
- ✓ Zero Maintenance
- ✓ Low foot print

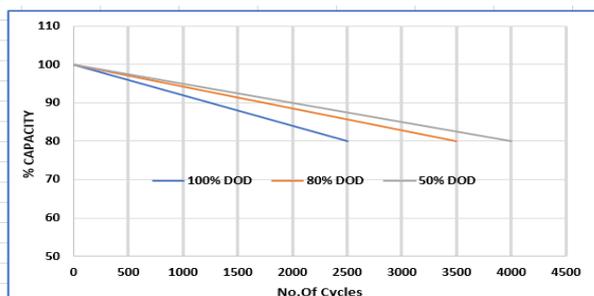
Features:

- RS485 communication output for monitoring.
- Cell voltage & temperature sensors.
- Multi-level safety protection for over charge, over discharge, short circuit, temperature etc.,
- Over current protection in charge/discharge.
- MOSFET high/low temperature protection.
- Passive cell balancing.
- Customized BMS functions and algorithms
- Data logging.
- SMART BMS - Provision for sleep mode.
- Protection for short circuit (Pack Level).
- Anti-theft protection (Optional).

Discharge Performance @25°C



No of Cycles Vs DOD Curve @25°C



General Characteristics:

Nominal Voltage (V)	48V
Energy (KWh)	4.8KWh
Nominal Capacity (Ah)	100Ah @0.2C,25°C

Mechanical Characteristics:

Weight	40Kg ± 2 Kg
Dimensions (mm)	D : (400 ± 5)mm W : (440 ± 5)mm H : (133 ± 5)mm

Electrical Characteristics:

Operating voltage (V) @100%DOD	42V to 54.5V
Recommended Voltage(V) @80%DOD	47V to 54.5V (0.5C)
Rated charging voltage (V)	54.5V
Discharge Cutoff voltage (V)	42V
Max Continuous Charge Current (A)	0.5C (50A)
Recommended Charge current (A)	0.3C (30A)
Max Continuous Discharge Current (A)	1C (100A)
Recommended Discharge current (A)	0.5C (50A)

Operating Conditions:

Pack Cycle life (80%DOD@25°C, 0.3C Charge/Discharge)	≥ 6000 Cycles
Ah Efficiency (%)	≥ 99%
Operating temperature	Charge 0°C to 60°C Discharge -20°C to 60°C
Storage temperature	0° to 40°C

Battery Model: AS0480048



Certifications/Standard Compliance:

IEC62619, IEC62620, UL1642/1973, UN38.3, BIS.