

51.2V 100Ah Lithium-ion Battery



PRODUCT SPECIFICATIONS

Parameter	Specification
Brand / Model	Inverted / INVLFP 51.2V 100Ah
System nominal voltage	51.2 V
System capacity	100 Ah
System energy	5.12 kWh
Voltage range	48 V – 56 V
Recommended inverter voltage	48 V Minimum / 56 V Maximum
Recommended C rating for charging	0.2 C
Recommended C rating for discharging	0.5 C
Peak pulse discharge	1 C for 10 sec
Cell specification	3.2 V 100 Ah
Cell configuration	16S 1P
Cycle life @ 20°C	6000 cycles
Storage temperature	0°C – 50°C
Dimensions	578.5 mm (L) × 482 mm (W) × 246.5 mm (H)
Approx. weight	45 kg
Communication	RS485 & CAN
Humidity	50%
Charging method	CC / CV
Warranty of battery module	5 Years
Life of battery module	10 Years
Maximum depth of discharge (DOD)	95%
Conversion efficiency	95%
Compatible Inverter Brand	Deye/Hoymiles & Many other reputed brands

SAFETY & HANDLING

- Battery is sealed and maintenance-free. Do not open, dismantle, or modify the battery module.
- Operate and install the battery in a clean, dry, and well-ventilated area, away from excessive heat.
- Do not short-circuit the terminals. Ensure correct polarity and secure all connections before operation.
- Use appropriate insulated tools and wear suitable protective equipment while installing or servicing the battery.
- For communication and inverter integration, use compatible RS485/CAN connections as specified.
- For more details visit: www.fidella.in