



12V 100AH

LITHIUM INVERTER BATTERY

POWER UP WITH SMARTECH BATTERY



Call Us
8888 289 817



More Information
www.smartechbattery.com



Our Email Address
smartechbattery@gmail.com

A CLEANER & GREENER PLANET



SMARTECH Battery:
Light, Powerful, Reliable.



SMARTECH BATTERY

Industrial Strength, Smartech Battery Power

About US

Since 2015, **SMARTECH** Battery has emerged as a leader in lithium battery technology. We are specialize in designing custom lithium battery packs for a wide array of applications, including electric vehicles and solar systems, as well as portable electronics and medical equipment. We are offerings also include inverter, UPS, energy storage, solar, high-voltage, telecom sector, EV, e-rickshaw, and golf cart batteries. **SMARTECH Battery manages the entire process, from sourcing raw materials to assembling and testing the final products, to ensure the highest quality.** With a strong focus on quality, innovation & Service, Smartech Battery provides dependable and sustainable energy solutions to both businesses and individuals in India.

Key Advantages of Our Lithium Batteries



High Energy Density

Maximizes power storage in compact sizes.



Longer Cycle Life

Provides extended battery lifespan.



Eco-friendly Production

Utilizes sustainable manufacturing processes.



Fast Charging Capability

Reduces downtime with rapid recharging.



Enhanced Safety Features

Incorporates advanced safety technologies.



Wide Temperature Range

Performs reliably in extreme conditions.



Lightweight Design

Easy to handle and transport.



Compact Size

Saves space without sacrificing power.



No Maintenance

Requires no upkeep and no gassing.



ENERGY STORAGE SYSTEM



BESS/Container
(Battery Energy Storage System)



Inverter / UPS Battery



Street Solar Light



**Agriculture
Spary Pump**



Golf Cart



E-Rickshaw



E-Scooter



**Our Battery
Solutions**

PRODUCT APPEARANCE

12.8V 100AH



SMARTECH Lithium Inverter Battery

BMS

Built-in intelligent BMS for battery protection



Support Monitoring via Mobile App



Equipment with RS485/CAN Communication



Efficiency & long-lasting service life

10

+10 Years Life Design

SOC

With State of Charge Design

Model	SB-2000
Type of Core	Lithium Prismatic Battery
Nominal Voltage (VDC)	12v
Lithium Battery Voltage (VDC)	12.8v
Nominal Capacity (Ah)	100Ah
Rated Energy (KW)	1280 Watt
Recommended Charging Voltage (VDC)	14.6v
Recommended Discharge Cut-Out Voltage (VDC)	10.4v
Standring Charging Current (A)	0.2C
Standard Discharge Current (A)	0.5C
Maximum Discharge Current (A)	80Amp

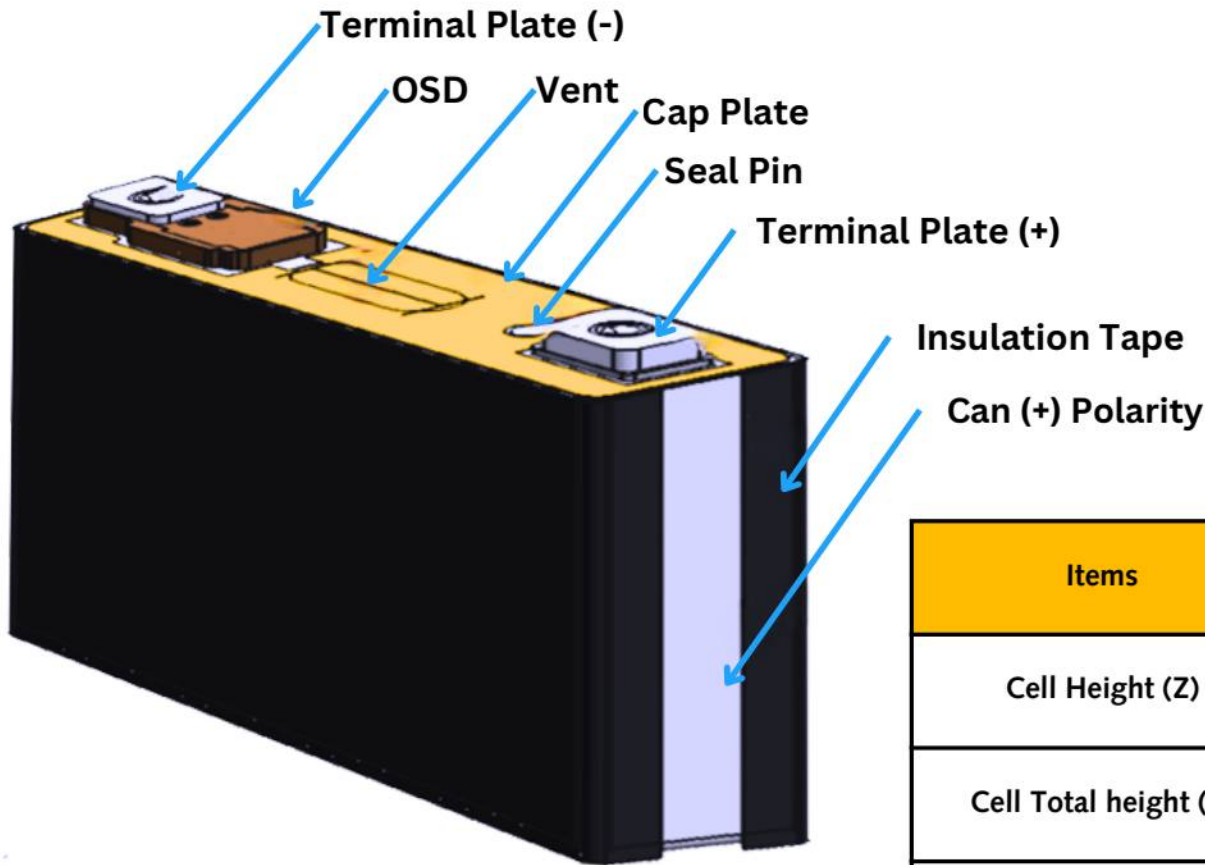
Working Temperature	Charging : 45°C
	Discharging : 65°C
Battery Connector Current	100Amp
BMS Type	Balancing BMS
Communication Interface	-
Key Feature	- Over Voltage Protection - Under Voltage Protection - Over current protection - Short circuit protection - High Temperature Protection - Low Temperature Protection - Soft Switch - SoC Display - Balance Function
Casing Type	Metal Case
Life Cycle	3500@25°C
Weight (Approx)	12 Kg
Size (L X W X H) (We create custom dimensions)	320 x 200 x 250 mm



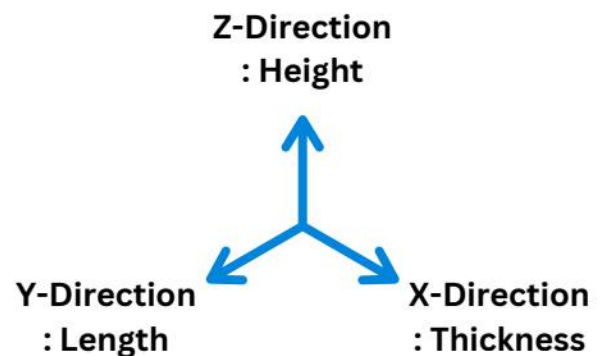
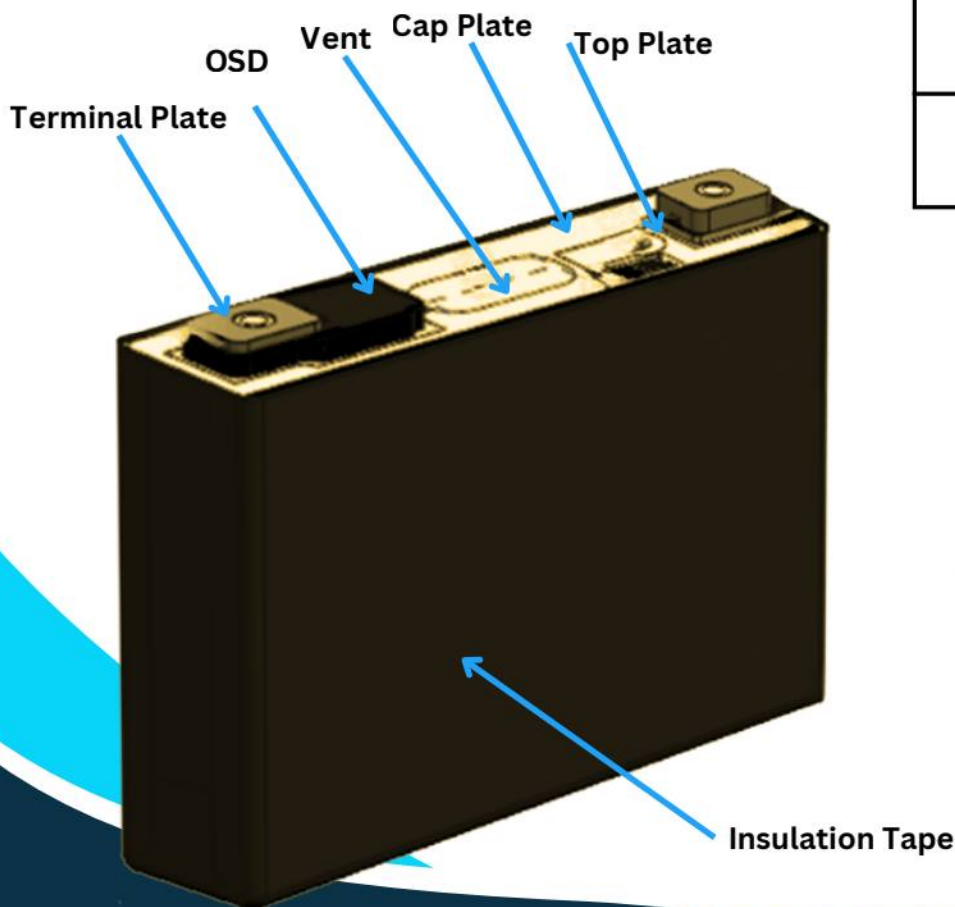
Technical Support Available Anytime

Cell Appearance

Prismatic Cell 100AH



Items	Characteristics
Cell Height (Z)	125mm
Cell Total height (Z)	133mm (Rivet)
Cell Length (Y)	173mm
Cell Thickness (X)	45mm



Summary of Cell Performance

Cell type					100Ah cell
Energy	Capacity (min.)		1/3C rate, 25°C, Discharge	Ah	100
	Energy (min.)		1/3C rate, 25°C, Discharge	Wh	370
	Specific energy (min.)			Wh/kg	165
General information	Nominal voltage		-	V	3.68
	Size		Width x height x Thickness	mm	173 x 125 x 45
	Cell weight (max.)		Bare cell	kg	2.1
	Operating voltage		-	V	2.7 ~ 4.15
	Operating temperature		-	°C	-40 — 60
Operation current	Discharge	Continuous	25°C	A	150
		Peak	25°C	A	409
	Charge	Continuous	25°C	A	72
		Peak	25°C	A	270
Power capability	5sec discharge	Resistance	RT, 50% SOC	mOhm	0.75
		Specific power capability	RT, 50% SOC (at V_min)	W	3,500
	30sec discharge	Resistance	RT, 50% SOC	mOhm	0.99
		Specific power capability	RT, 50% SOC (at V_min)	W	2,600
Life	Cycle life		0.5C/1 C, RT, EOL80%/EOL70%	cycles	3,200 / 5,200
			1C/1C, 45°C, EOL80%/EOL70%	cycles	1,500 / 2,500
	Calendar life		SOC100%, 25°C, EOL80%/EOL70%	years	17 / 26
Swelling force	Max. force at EOL		0.5C/1 C, RT, rigid jig	N	< 25000



Smartech

Li-Ion Battery

Power Up With SMARTECH Battery

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