

LOOM SOLAR



FEATURES



MORE POWER IN LESS SPACE



LONGER LIFE



MAINTENANCE FREE



HIGH EFFICIENCY

ABOUT BATTERY

Loom developed high capacity Lithium batteries for Home Inverter, 100 Ah / 48volt 5000watt hour lithium battery comes with many features and 3 years warranty. This power storage runs everything such as Multiple lights up to 5000 watts, Many Ceiling fans, 8- 10, and Home and Kitchen Appliances such as Television, Refrigerator, Water Motor, Geyser, Grinder, Juicer Machine, and many more up to the power of 4800 Watts.

ABOUT LOOM SOLAR

Loom Solar is India's premium solar brand that manufactures monocrystalline solar panel and Lithium Battery. It is an Indian company headquartered in faridabad, haryana

CAML10048



LITHIUM IRON PHOSPHATE BATTERY

Electrical Specification

Nominal Voltage	48V
Nominal Capacity	100Ah
Energy	4.8KWh
Resistance	$\leq 25 \pm 2m\Omega$
Efficiency	$\geq 90\%$
Current Limiter	Available
Maximum Modules in Parallel	8 (with CBMS)

Charge Specification

Recommended Charge Current	0.3C
Maximum Charge Current	1C
Charge Current 15 to 40°C	0.3C
Recommended Charge Voltage	$54 \pm 0.5V$
Operating Voltage	42-56V

Temperature Specification

Charge Temperature	0 to + 60°C
Discharge Temperature	-10 to + 60°C
Storage Temperature	0 to + 40°C
Humidity	5% to 95%

Dimensional Specification

Width (W)*Depth (D)* Height (H)	$(439*400*222) \pm 2mm$
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Mechanical Specification

Dimensions (W*D*H)	$(439*400*222) \pm 2mm$
Weight (approx.)	45Kg
Terminal Type	M8
Case Material	Metal
Enclosure Protection	IP20
Cell Type	Prismatic
Chemistry	LFP

Discharge Specification

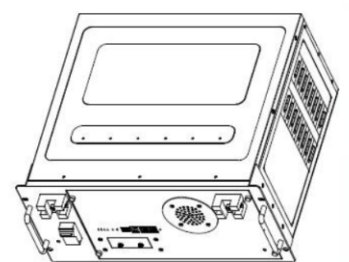
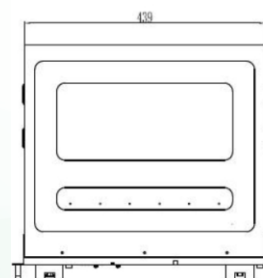
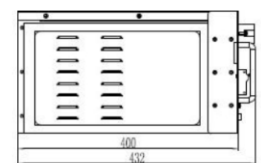
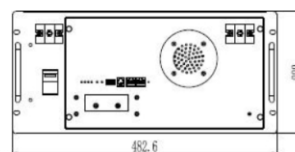
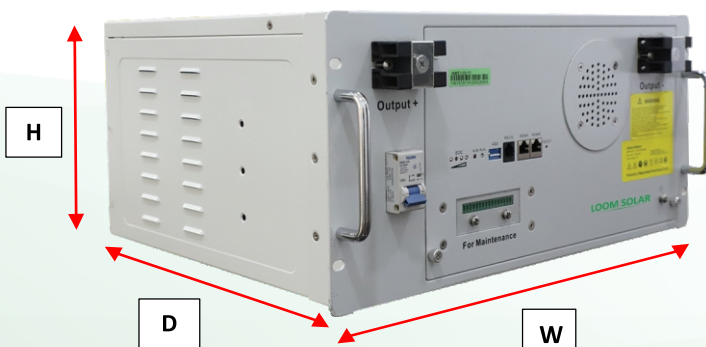
Recommended Discharge Current	0.3C
Maximum Discharge Current	1C
Recommended Low Voltage Disconnect	42V
Discharge Current 15 to 40°C	0.3C
Operating Voltage	42-56V

Compliance Specification

Certification	Yes
Shipping Classification	Yes

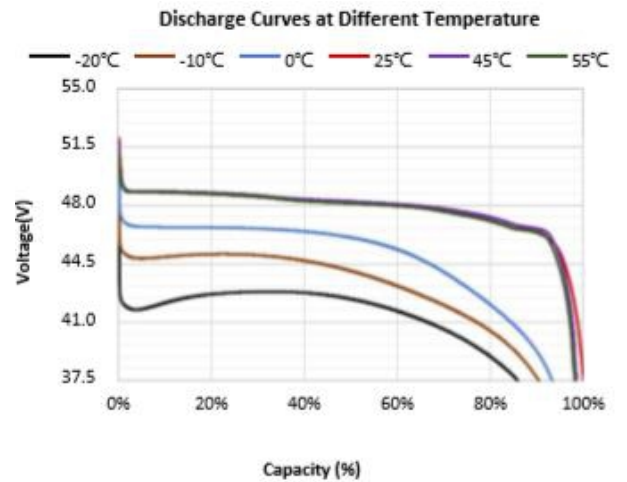
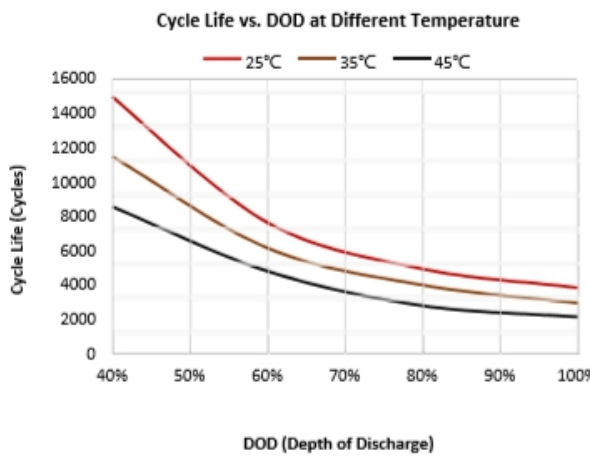
Front Panel Specification

Status Indicators	SOC/ALM/RUN
Communication Ports	RS485*2, RS232*1
Reset Key	Available
On/Off Switch	Available
LED Interface	Available



Key Specification	Performance Specification
High Safety Ensured by integrated Smart BMS	Long Cycle Life: 3000 cycles @ 80% DOD, 25°C discharge conditions
High Energy Density by Adopting LFP cells	Stable structure of LFP crystal with high decompose temperature
Extendable capacity through parallel connection	Higher Cost Effectiveness than other Li-ion chemistries
Wide working Temperature range	Higher Discharge/Charge Efficiency: More than 90%
Perfectly Fits in Telecom standard 19" cabinet	Easy handling and installation

Charging Discharging Curves at different C-rates



Performance curves

