

# 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 5 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

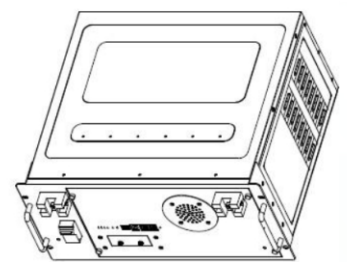
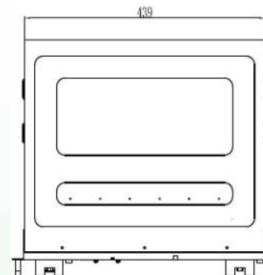
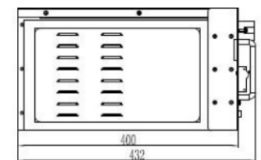
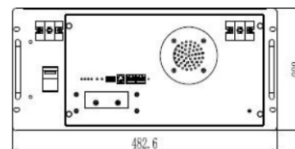
Recommended Discharge Current	0.3C
Maximum Discharge Current	1C
Recommended Low Voltage Disconnect	42V
Discharge Current 15 to 40°C	0.3C
Operating Voltage	42-56V

### Compliance Specification

Certification	Yes
Shipping Classification	Yes

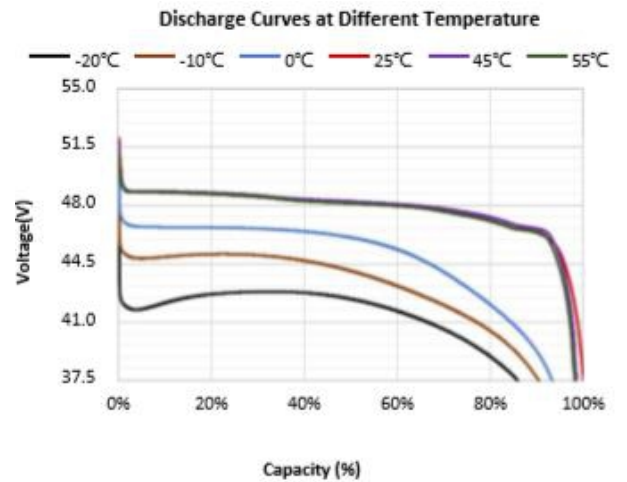
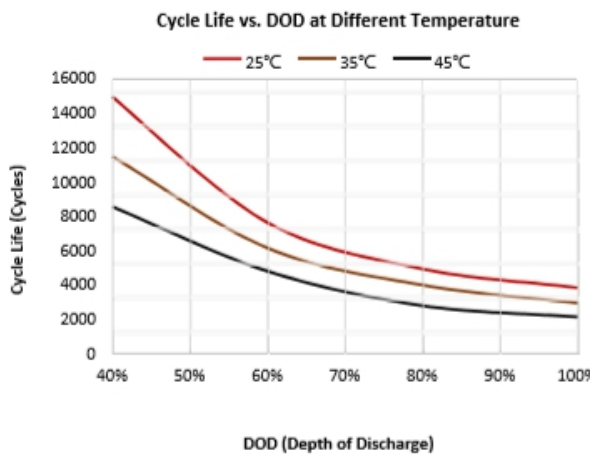
### Front Panel Specification

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

