SPINOFF TECHNOPARK LIMITED



TELECOM/ESS

Lithium Battery























CUSTOMISED ESS / BESS SOLUTIONS











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ESS/TELECOM LITHIUM BATTERY SEGMENT MODULAR

Lithium Battery Technical Specification: 48V,100AH

Overview:

Finike Lithium provides safe & reliable energy storage Solutions with wide range of models for ESS/Telecom/Others.

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

Features:

- •RS 485 communication output for monitoring.
- Cell voltage & temperature sensors.
- Multi-level safety protection for overcharge, over discharge, short circuit, temperature etc.,
- Over current protection in charge/discharge.
- High/low temperature protection.
- Passive cell balancing.
- Customized BMS functions and algorithms.
- Data logging.
- SMART BMS.
- Protection for short circuit (Pack Level)

General Characteristics:			
Nominal Voltage (V)	48V		
Energy(KWh)	4.8KWh		
Energy Capacity	100Ah		
Mechanical C	haracteristics		
Weight	45Kg ± 2 Kg		
	L :(540 ±5)mm		
Dimensions(mm)*	w:(428 ± 5)mm		
	H:(244 ±5)mm		

Electrical Characteristics:			
Operating voltage (V) @100%DOD	42 V to 54V		
Recommended Voltage(V) @80%DOD	46.5 V to 54V		
Rated charging voltage(V)	54V		
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@ 0.2C Charge/Discharge)	25° C,	3500Cycles		
Ah Efficiency (%)		≥ 99%		
Operating temperature	Charge Discharge	0°C to60°C -20°C to60°C		
Storage temperature		25°Cto35°C		

Product Visuals





*Specification For Reference Only. Customised Sizes Also Available.



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HIGH VOLTAGE LITHIUM ION BATTERY ENERGY STORAGE SYSTEM



Module Energy	5.12	5.12kWh	
Module Nominal Voltage	51	51.2V	
Module Capacity	10	100Ah	
Battery Module Qty 1 in Series	7	10	
System Nominal Voltage (V)	358.4V	512V	
Operating Voltage(V)	336V-392V	480V-560V	
Cut-off Discharge Voltage (V)	336V	560V	
Float Charge Voltage (V)	392V	560V	
System Energy	35.80kWh	51.20kWh	
Recommend Depth of Discharge	80%		
Storage Temperature	25-	25-35C	
Communication Port	UART/CAN/R	UART/CAN/RS232/RS485	
Status indicator	Run-Green Light	Run-Green Light ;Alarm - Red Light	
IP RATING OF ENCLOSURE	IP	IP20	
Dimension(W/D/H,mm) Single Mo	ule 540x428x244		
Installation Location	Rack / Cab	Rack / Cabinet,Indoor	
Cycle life	≥ 3500 Cycles a	≥ 3500 Cycles at 0.5C/0.5C ,25 C	
Warranty	5 Years		

Product Visuals









O SAFETY & RELIABILITY

- Air conditioner in cabinet, fans & fire extinguishing device in battery module.
- LiFePO4 battery with higher safety & longer lifetime.*

OCONVENIENCE

- Standard rack design for easy installation and maintenance.
- Supporting USB upgrade software*

OFLEXIBILITY

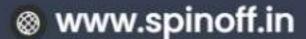
- •Standard modular design with 5.12kWh per battery modules
- •Flexible design from 4-16 battery modules in series parallel-in low voltage ESS.

O SPECIAL FEATURES

- Three-layer architecture built in BMU+RBMS+SBMS for multiple protection only in high voltage.
- Touchable screen design for choosing different communication protocol option available.
- Flexible capacity & power scalability with up to 64 clusters in parallel

*Specification For Reference Only. Customized Sizes Also Available.









ESS RESIDENTIAL/COMMERCIAL SERIES







- Extra Long Cycle life
- Ground -Standing For easy installation
- · A safe & reliable BMS
- Rs485 & CAN communication
- Easy plug and play
- Compatible with most of the inverters

Technical Specification of 51.2V-200Ah



Rated Voltage	51.2V	
Rated Capacity	200Ah	
Rated Energy	10.24kwh	
Operating Voltage Range	43.2V~58.4V	
Charging Voltage	57.6~58.4V	
Cut-off Voltage	43.2V	
Max.Charging Current	100A	
Recommended Charging Current 50A		
Max.Discharge Current	100A	
Efficiency	>98%	
Dimensions L*W*H(mm)*	495*780*217	
Weight (Kg)*	≈92	
Humidity	5%~95% Relative humidity	
Charging Temperature	0℃~50℃	
Discharging Temperature	-20 °C ~60 °C	
Storage Temperature	−25°C ~30°C	
Cycle Life	>3500times (0.25 C, 80%DOD)	
Design life	10 years	

*Dimension & Weight for reference only, all other sizes can be customised.