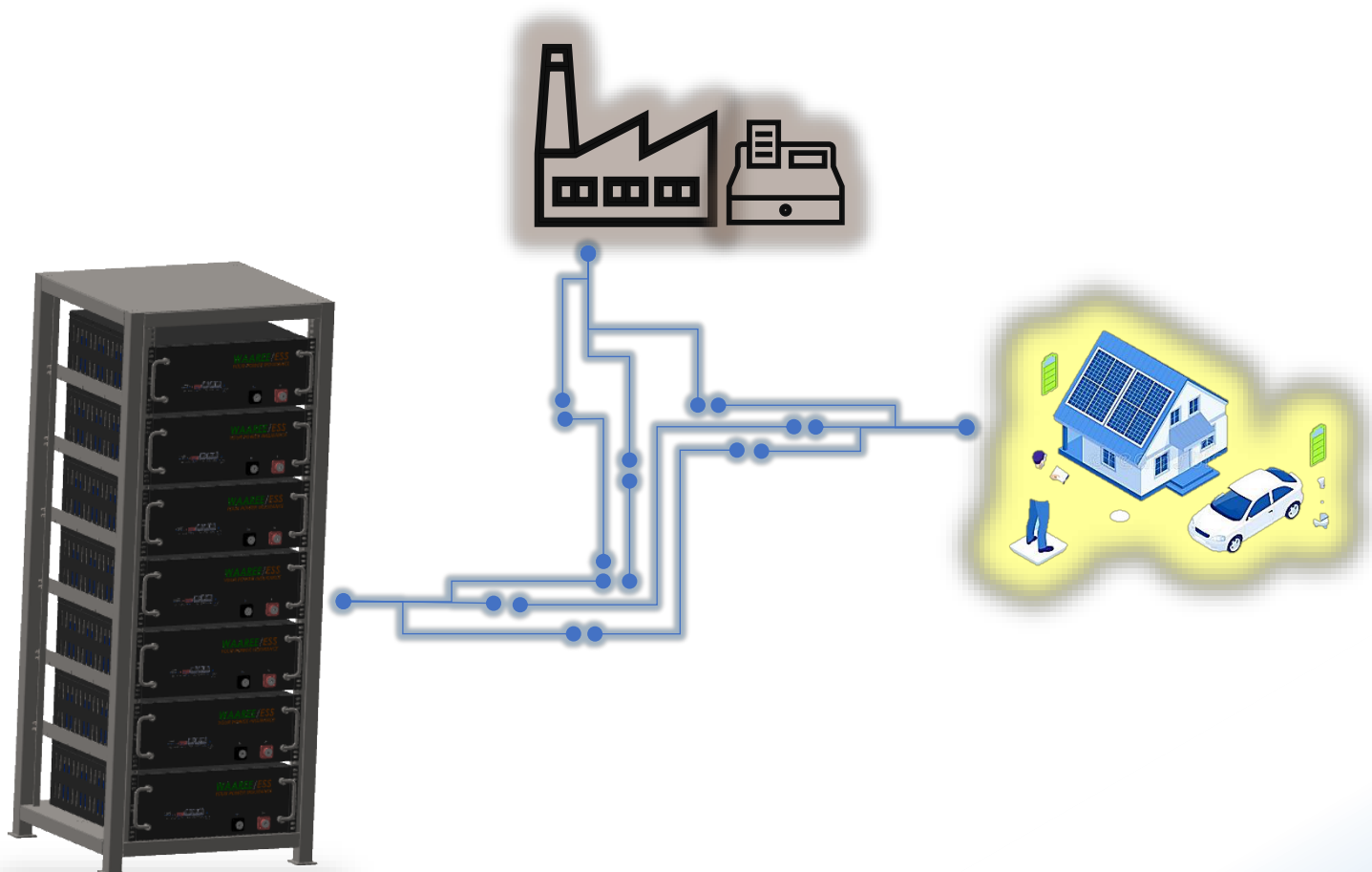


LITHIUM-ION
BATTERY

WAAREE | **TECH**



51.2 V 100 Ah

TECHNICAL DATASHEET

Technical Data

Sr No	Characteristics	Value
General Specifications		
1	Battery Chemistry	LFP
2	Cell model	3.2V 100Ah
3	Battery Rated Voltage (V)	51.2 V
4	Battery Rated capacity (Ah)	100 Ah
5	Battery Rated Energy (KWh)	5.12 KWh
Performance Characteristics		
6	Charging Voltage (V)	57 V \pm 1V
7	Discharging Voltage (V) @90%	44 V \pm 1V
8	Nominal Charge Current (A)	30 A
9	Nominal Discharge Current (A)	50 A
10	Maximum Charge Current (A)	50 A
11	Maximum Discharge Current (A)	100 A
12	Operating Voltage Range (V) @90%	57 V to 44 V \pm 1V
13	Operating Temperature (°C)	Discharge 0 to 55 °C Charge 0 to 45 °C
14	Storage time	1 month @ 0-40°C, 1-3 month @ 18-35°C, Charge once a month
15	Cycle Life of Battery @80% EoL capacity	>3000 Cycle @25°C, 0.3C Charge, 0.5C Discharge. 90% DoD.
Protection Features		
16	Over Temperature Protection	Available
17	Under Temperature Protection	Available
18	Over discharge Current Protection	Available
19	Short circuit Current Protection	Available
20	Cell Balancing	Available
Mechanical Characteristics		
21	Dimension (WXHxD), \pm 5 MM including handle.	(482 x 175 x 504), 19inch 4U
22	Weight (Kg)	53 \pm 2Kg
23	Casing	MS Metal Cabinet with Powder Coating – IP20 indoor use.
24	Power Connector & Wire length (MM)	M8 wire lug terminal.