

Power up

with uninterrupted power supply.

 Light Weight

 Low Cost

 Fast Charging Capability

 Eco Friendly Battery

 Easy Installation

 High Energy Density

Application

Electricity generation

Renewable energy
ESS

Transmission and distribution

Frequency regulation
Electricity Capacity Expansion

Utilization

Commercial and Industrial ESS
UPS ESS
Telecom ESS
Residential ESS



Battery Energy Storage Systems

Technical specification

SPECIFICATION		51.2V/100Ah	96V/100Ah	120V/100Ah
General	SAP Description	OKAYA LITHIUM BATTERY 51.2V 100AH	BESS 9.6KWH (96V/100AH-30S1P)	OKAYA LITHIUM BESS 120V 12KWH
	SAP Code	FOJLFIE10051C93MS1	FESS000000000000002	FESSLI012110000002
	Chemistry of the cells	LFP	LFP	LFP
	Cell type (Cylindrical/Prismatic)	Prismatic	Prismatic	Prismatic
	Cell Nominal Voltage/Ah	3.2V / 100Ah	3.2V / 100Ah	3.2V / 100Ah
Electrical Characteristics	Battery Rack Voltage (V)	51.2V	96V	121.6V
	Battery Rack Capacity (Ah)	100Ah	100Ah	100Ah
	Battery Rack Energy Rating(kWh)	5.1 kWh	9.6kWh	12kWh
	Total No. of Rack	NA	NA	NA
	Number of Battery Modules/Rack	1	1	1
	Rack Level Configuration	NA	NA	NA
	Battery Module Configuration	16S 1P	30S 1P	38S 1P
	Total No. of Cell	16	30	38
	Continuous Charging Current (A)	0.5C	0.5C	0.5C
	Continuous Discharging Current (A)	0.8C	0.8C	0.8C
	Nominal Voltage of Battery Rack(V)	51.2V	96V	121.6V
	Minimum Voltage of Battery Rack(V)	45V±2V	90V±2V	112V±2V
	Maximum Voltage of Battery Rack(V)	56V±2V	108V±2V	135V±2V
BMS Type Rack Level	NA	NA	NA	
BMS Type Module Level	Software	Software	Software	
Mechanical Characteristics	Rack Dimension (L * W * H)mm	562x202x338	760x347x365	1065x535x275
	Battery Case Type	Metal Cabinet	Metal Cabinet	Metal Cabinet
	Connector Type	SB120 Connector	SB175 Connector	SB50 & SB120 Connector
	IP Rating	IP21	IP21	IP21
	Wire Size	16sqmm	25sqmm	35sqmm
	Weight (kg)	50 kg	100kg	125 kg
Battery Life	Cycle Life	>2000@80%DOD	>2000@80%DOD	>2000@80%DOD

SPECIFICATION		240V/100AH	720V/100AH	480V/100AH
General	SAP Description	BESS 24KWh(240V/100AH-3C RATED)	BESS BATT. RACK 720V/100AH (CAP72KWH)	BESS 48KWH(+/-240V /100AH)
	SAP Code	FESS0000000000000004	FOLLFI100A3PES0001	FESS0000000000000001
	Chemistry of the cells	LFP	LFP	LFP
	Cell type (Cylindrical/Prismatic)	Prismatic	Prismatic	Prismatic
	Cell Nominal Voltage/Ah	3.2V / 100Ah	3.2V / 100Ah	3.2V / 100Ah
Electrical Characteristics	Battery Rack Voltage (V)	240V	720V	480V
	Battery Rack Capacity (Ah)	100Ah	100Ah	100Ah
	Battery Rack Energy Rating(kWh)	24kWh	72kWh	48kWh
	Total No. of Rack	1	1	2
	Number of Battery Modules/Rack	5	15	10
	Rack Level Configuration	5S 1P	15S 1P	10S 1P
	Battery Module Configuration	15S 1P	15S 1P	15S 1P
	Total No. of Cell	75	225	150
	Continuous Charging Current (A)	0.5C	0.5C	0.5C
	Continuous Discharging Current (A)	0.8C	0.8C	0.8C
	Nominal Voltage of Battery Rack(V)	240V	720V	480V
	Minimum Voltage of Battery Rack(V)	215V±2V	680V±2V	444V±2V
	Maximum Voltage of Battery Rack(V)	260V±2V	765V±2V	520V±2V
BMS Type Rack Level	CBMS	CBMS	CBMS	
BMS Type Module Level	Software	Software	Software	
Mechanical Characteristics	Rack Dimension (L * W * H)mm	710x700x1610	1250x730x2100	710x700x1610 (2 Rack's)
	Battery Case Type	Metal Cabinet	Metal Cabinet	Metal Cabinet
	Connector Type	As per requirement	As per requirement	As per requirement
	IP Rating	IP21	IP21	IP21
	Wire Size	As per requirement	As per requirement	As per requirement
	Weight (kg)	400kg	1150kg	800kg
Battery Life	Cycle Life	>2000@80%DOD	>2000@80%DOD	>2000@80%DOD