

FP-R2-46.5V50-4U SIB Energy Storage System



Energy Storage Battery

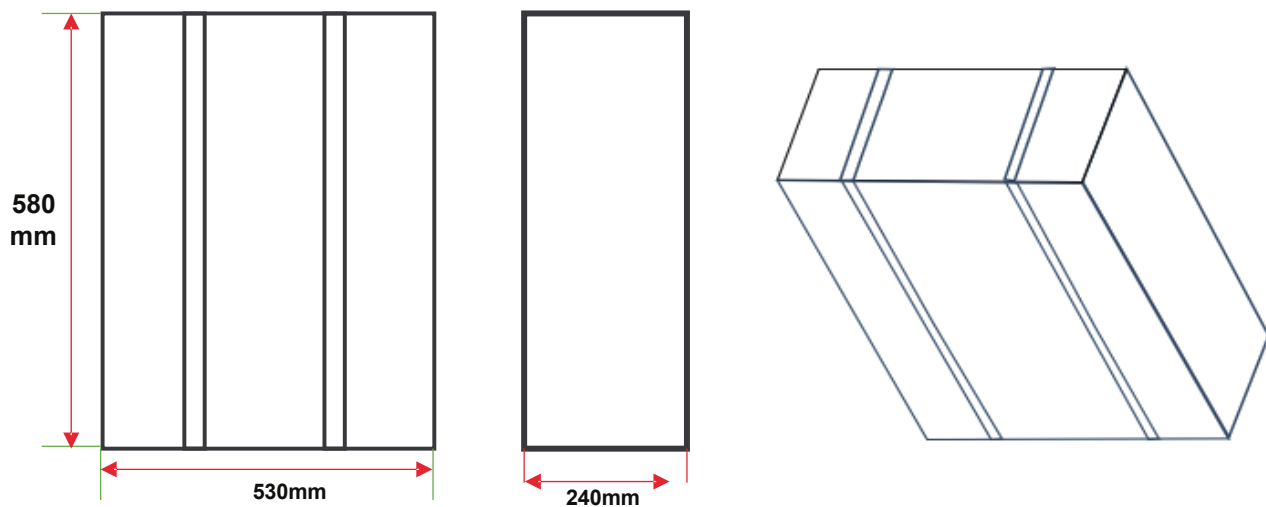
MODEL	FP-R2-45.6V50-4U
Electrical Characteristics	
Rate voltage(Vdc)	45.6
Cell combination	16S1P
Rate capacity(AH)	50
Energy storage(KWH)	2.28
Cycle life	25±2°C, 0.5C/0.5C, EOL70%≥8000
Charge/Discharge Standard	
Charge voltage(V)	54
Max.charge current(A)	50
Max.discharge current(A)	50
Discharge cut-off voltage(VDC)	32
Charge cut-off voltage(VDC)	57.6
Enviornment	
Charge temperature	0°C ~ 50°C@60 ± 25% Relative Humidity
Discharge temperature	-40°C ~ 50°C@60 ± 25% Relative Humidity
Storage temperature	-40°C ~ 50°C@60 ± 25% Relative Humidity
Mechanical	
IP class	IP20
Material system	SIB
Case material	Metal
Case type	Rack Mount
Product dimension L*W*H(mm)	480*442*178 (4U)
Package dimension L*W*H(mm)	580*530*240
Net weight(kg)	42
Gross weight(kg)	47
Communication	
Protocol(Optional)	CAN/RS485/RS232
Certificates	
Pack	UN38.3, MSDS,
Cell	UN38.3, MSDS,

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Outside dimension of dangerous bag box

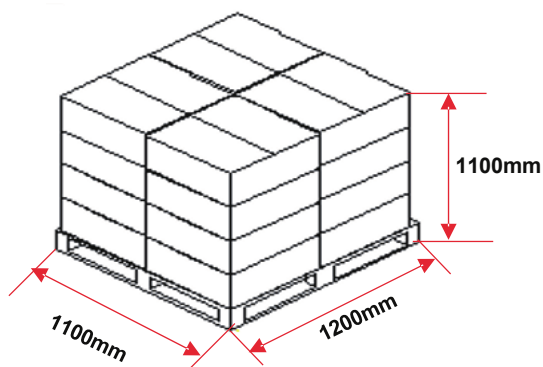
External dimension of single battery package

Schematic diagram:

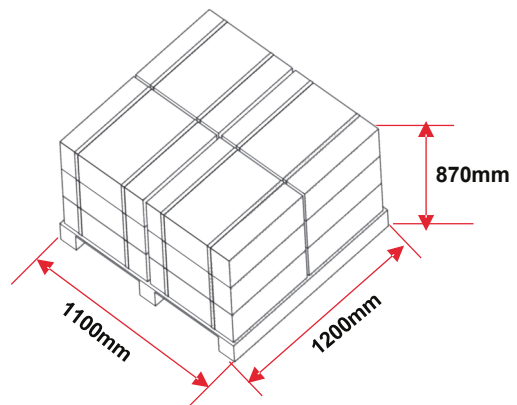


Standard requirements for card plates

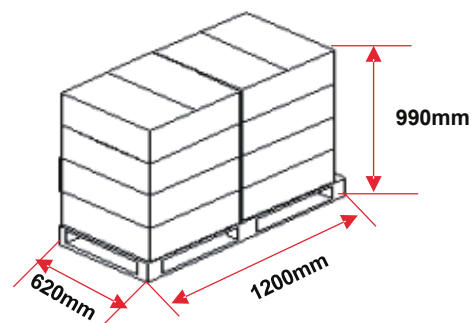
Each card plate is fitted with 16sets



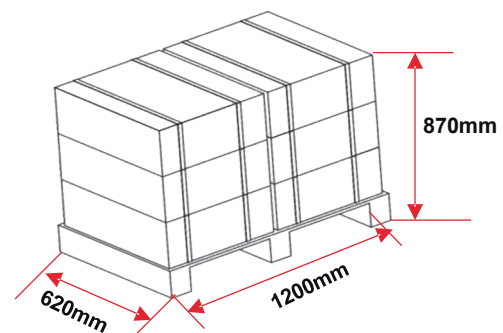
Each card plate is fitted with 12sets



Each card plate is fitted with 8sets



Each card plate is fitted with 6sets

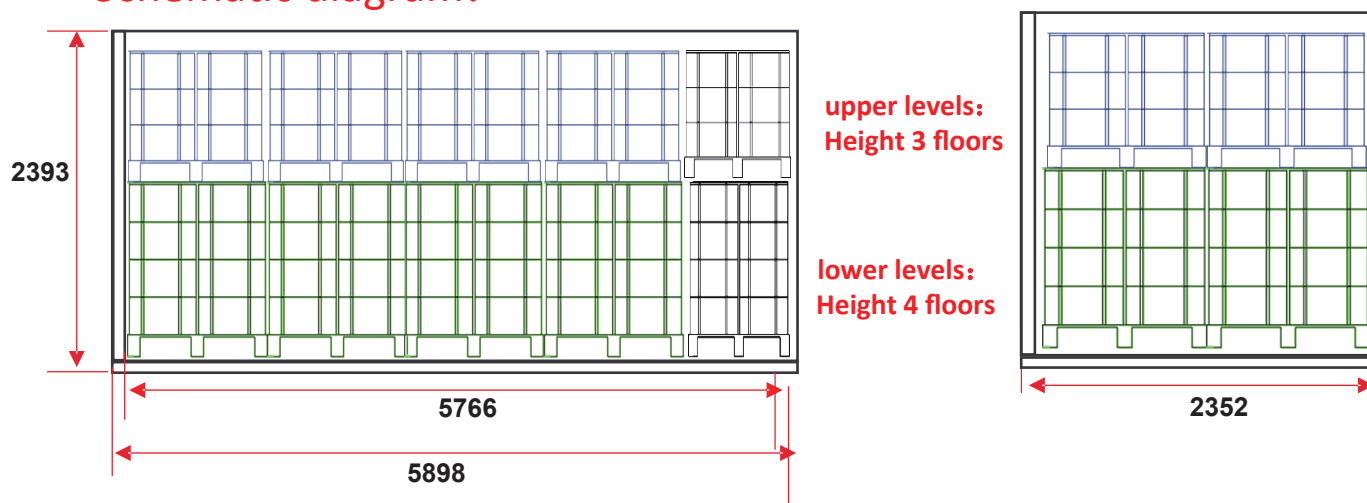


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Outside dimension of dangerous bag box

252 units in a standard 20-foot container

Schematic diagram:



Quantity statistics

NO	Number of loads per pallet	Number of cards	Total	Total	Container loading instructions
1	6	2	12	252	upper levels
2	12	8	96		upper levels
3	8	2	16		lower levels
4	16	8	128		lower levels

Weight statistics

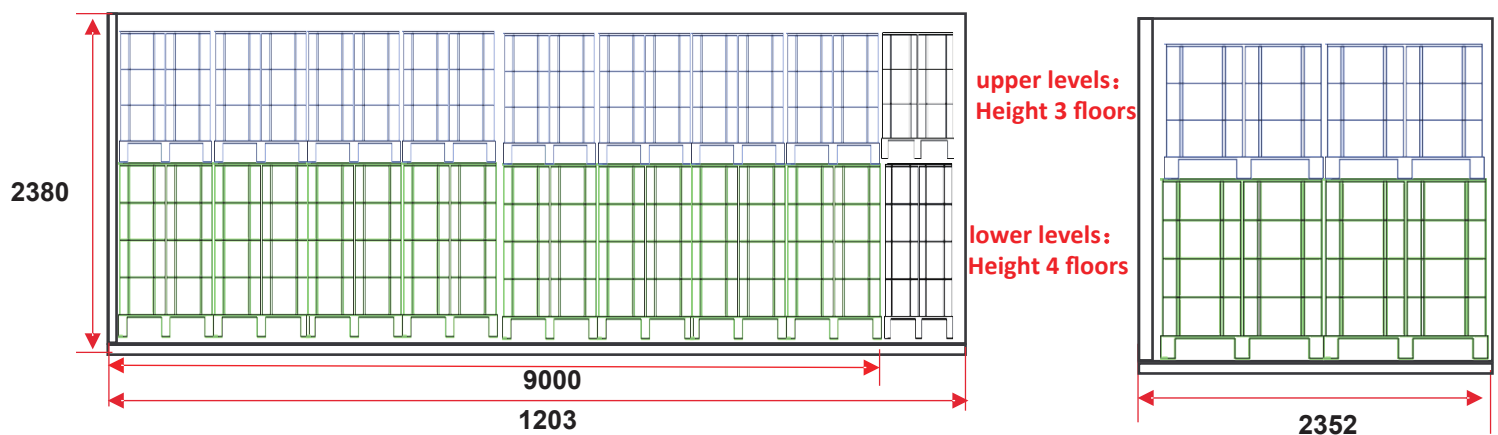
NO	Weight of battery	Weight of a card board battery	Number of cards	Total weight of the battery	Gross weight of 20 feet cabinet	Total weight
1	47KG	312KG	2	624KG	2180KG	14624KG
2	47KG	594KG	8	4752KG		
3	47KG	406KG	2	812KG		
4	47KG	782KG	8	6256KG		

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Outside dimension of dangerous bag box

476 units in a standard 40-foot container

Schematic diagram:



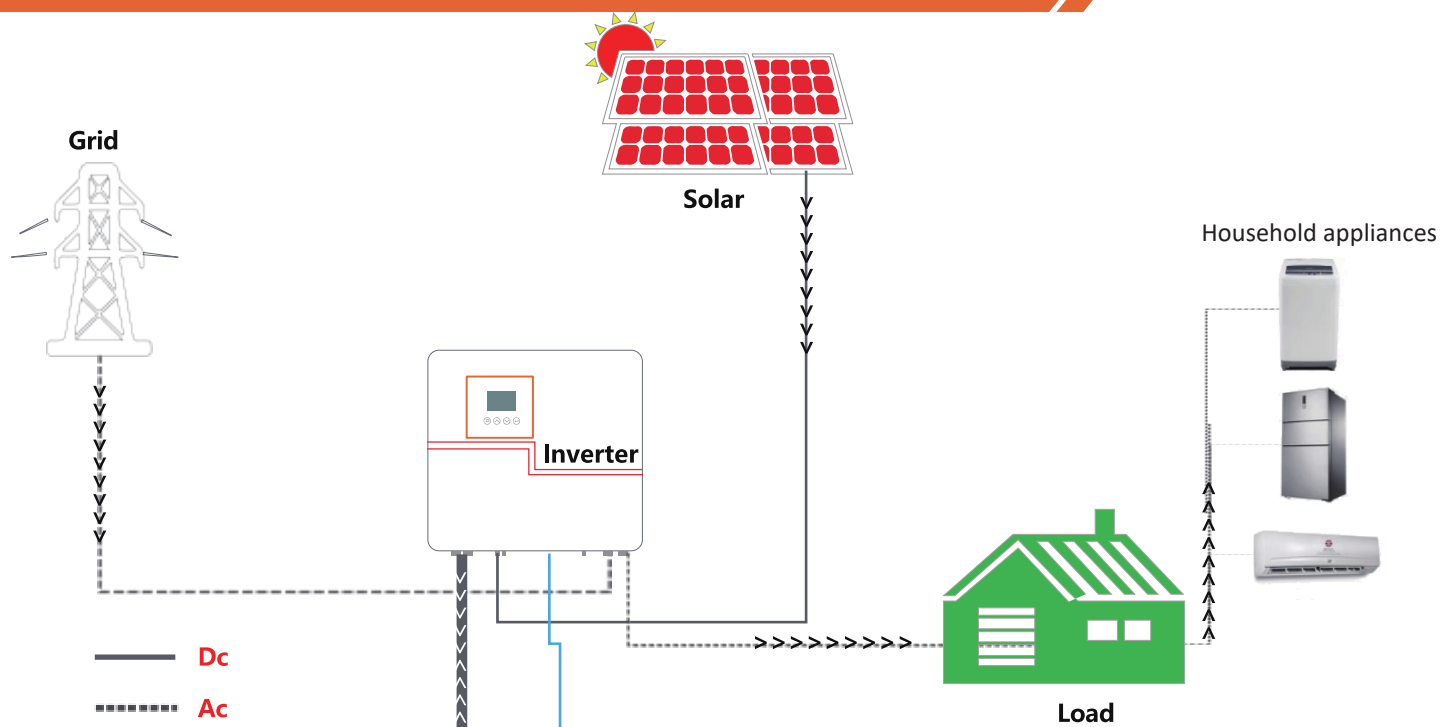
Quantity statistics

NO	Number of loads per pallet	Number of cards	Total	Total	Container loading instructions
1	6	2	12	476	upper levels
2	12	16	192		upper levels
3	8	2	16		lower levels
4	16	16	256		lower levels

Weight statistics

NO	Weight of battery	Weight of a card board battery	Number of cards	Total weight of the battery	Gross weight of 40 feet cabinet	Total weight
1	47KG	312KG	2	624KG	3650KG	27102KG
2	47KG	594KG	16	9504KG		
3	47KG	406KG	2	812KG		
4	47KG	782KG	16	12512KG		

Energy Storage Battery

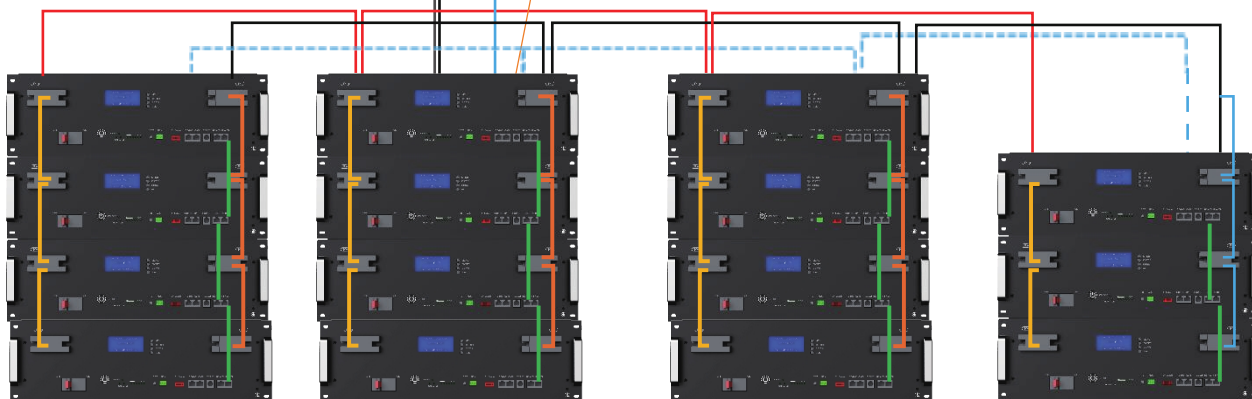


Plan A $\leq 6\text{KW}$

P+ P-

RS485

Up to 15 parallel battery connections are supported



Device Communication

Plan B $> 6\text{KW}$

Device Communication

RS485 & CAN

Hybrid inverter

— DC +
— DC -
--- Parallel communication
--- Device Communication

copper bar

