

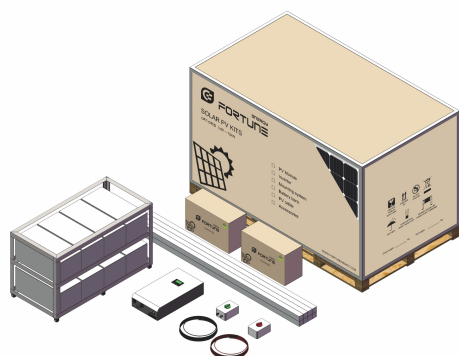
FESS-F Series

1 / 2 / 3 / 4 / 5 / 6 / 8 / 10 / 12 kW



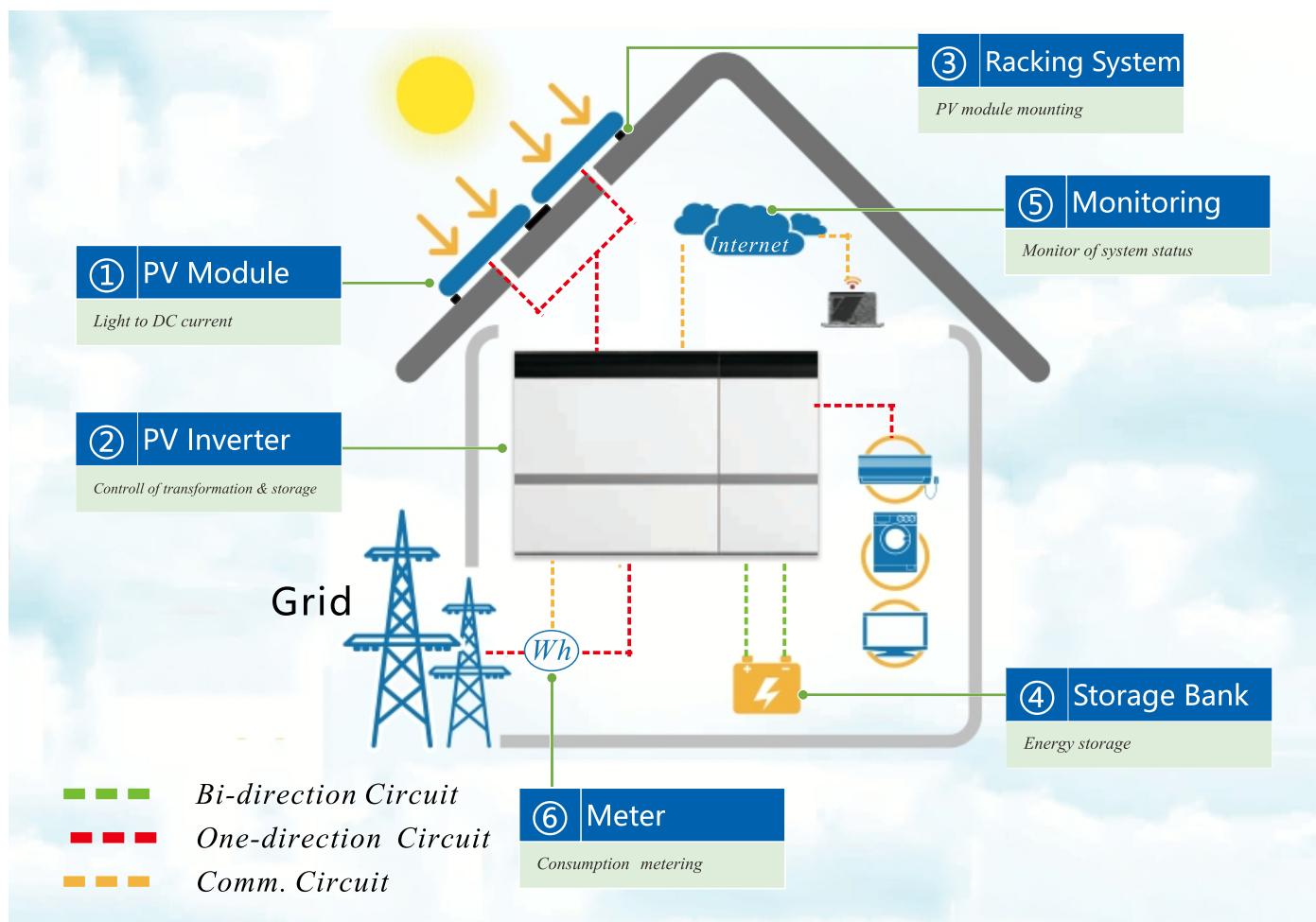
Off-grid PV Energy Bank

FESS-F Series



- Completely independent energy supply
- Away from grid blackout
- Adaptable modular design
- Multiple working modes
- Reliable, safe & quick-installation

Configuration of FESS-F



System Specification

FESS-F**/S2**
0124
0224
0348
0448
0548

General Information

Rated Power (kW)	1.1	2.2	3.3	4.4	5.0
Rated Storage (kWh)	3.6	7.2	12.0	14.4	19.2
Rated Yield (kWh/day)*	3.4	6.9	10.3	13.7	15.6
Dimension (L×W×H)(mm)	1750×795×1175	1750×935×1175	1750×1075×1175	1750×1215×1175	1750×1285×1175
Weight (kg)	255	415	625	765	920
Packing (20/40GP)	14/28	12/28	12/28	8/18	8/18

System Configuration

PV Inverter	1kW/24V	2kW/24V	3kW/48V	4kW/48V	5kW/48V
Racking System	1 Set				
PV Module	4	8	12	16	18
PV Connection	2P2S	2P4S	3P4S	4P4S	6P3S
Battery	12V/150Ah * 2	12V/150Ah * 4	12V/250Ah * 4	12V/150Ah * 8	12V/200Ah * 8
Battery Connection	1P2S	2P2S	1P4S	2P4S	2P4S
PV Combination Box	2/1 * 1	2/1 * 1	4/1 * 1	4/1 * 1	6/1 * 1
Battery Combination Box	1/1 * 1	2/1 * 1	1/1 * 1	2/1 * 1	2/1 * 1
Connection Wire	1 Set				
Combination Wire	1 Set				

PV Module Specification

P _m (W)	275
Eff.(%)	16.9
V _m (V)	31.3
I _m (A)	8.80
V _{oc} (V)	38.5
I _{sc} (A)	9.21
Dimension (L×W×H)(mm)	1640×992×35
G.W.(kg)	19

PV Inverter Specification

Max. Output Power (kVA)	1	2	3	4	5
Max. PV Input Voltage (V)	100	145			
MPPT Voltage Range (V)	30 ~ 80	30 ~ 130	64 ~ 130		
Max. Input Current (A)	50	80			
Nominal Battery Voltage (V)	24		48		
AC Input/Output Voltage (V)	220 ~ 240				
Max. AC Input Current (A)	30		60		
AC Frequency (Hz)	50/60				
Dimension (L×W×H)(mm)	272×355×100		297.5×468×125		
G.W.(kg)	7.4		13.3		

Battery Specification

Type	Gel VRLA				
Voltage (V)	12				
Capacity (Ah)	150	200	250	150	200
Dimension (L×W×H)(mm)	483×170×241	522×240×228	522×268×228	483×170×241	522×240×228
G.W.(kg)	43	57	72	43	57

* Rated yield is calculated on GHI of 1460 kwh/m². The yield would vary with the project sites.

System Specification

FESS-F**/S2**
0648
0848
1048
1248

General Information

Rated Power (kW)	6.6	8.8	9.9	12.1
Rated Storage (kWh)	24.0	28.8	36.0	48.0
Rated Yield (kWh/day)*	20.6	27.5	30.9	37.8
Dimension (L×W×H)(mm)	1750×1215×1175	1750×935×1175	1750×1075×1175	1750×1075×1175
	1750×1075×1175	1660×1100×1160	1660×1100×1160	1750×1075×1175
				1660×1100×1160
Weight (kg)	1270	1575	1845	2360
Packing (20/40GP)	6/14	6/14	6/14	4/8

System Configuration

PV Inverter	6kW/48V	8kW/48V	10kW/48V	12kW/48V
Racking System	1 Set			
PV Module	24	32	36	44
PV Connection	6P4S	8P4S	9P4S	11P4S
Battery	12V/250Ah * 8	12V/200Ah * 12	12V/250Ah * 12	12V/250Ah * 16
Battery Connection	2P4S	3P4S	3P4S	4P4S
PV Combination Box	6/1 * 1	4/1 * 2	6/1 * 2	6/1 * 2
Battery Combination Box	2/1 * 1	4/2 * 1	4/2 * 1	4/2 * 1
Connection Wire	1 Set			
Combination Wire	1 Set			

PV Module Specification

P _m (W)	275
Eff.(%)	16.9
V _m (V)	31.3
I _m (A)	8.80
V _{oc} (V)	38.5
I _{sc} (A)	9.21
Dimension (L×W×H)(mm)	1640×992×35
G.W.(kg)	19

PV Inverter Specification

Max. Output Power (kVA)	6	8	10	12
Max. PV Input Voltage (V)	145			
MPPT Voltage Range (V)	64 ~ 130			
Max. Input Current (A)	80	160		
Nominal Battery Voltage (V)	48			
AC Input/Output Voltage (V)	220 ~ 240			
Max. AC Input Current (A)	80			
AC Frequency (Hz)	50/60			
Dimension (L×W×H)(mm)	620×385×215	670×410*215		
G.W.(kg)	41	71.5	76	76

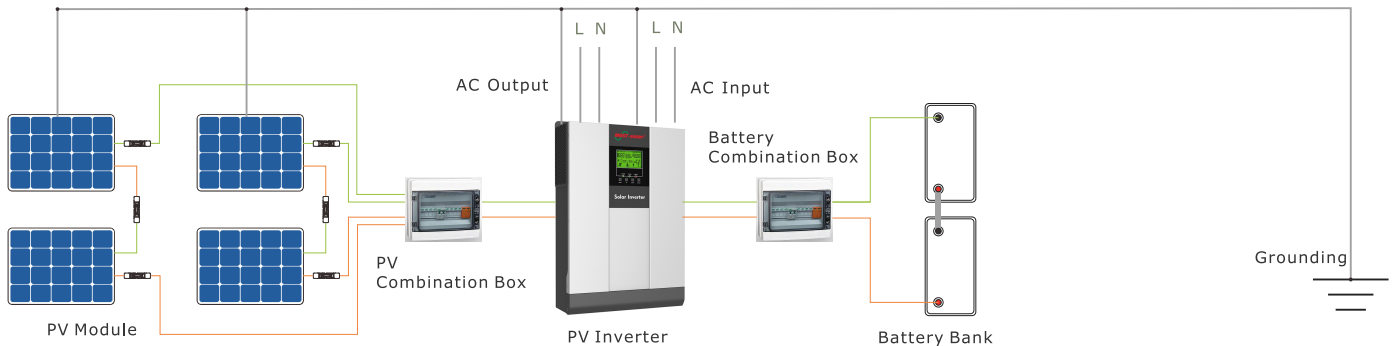
Battery Specification

Type	Gel VRLA			
Voltage (V)	12			
Capacity (Ah)	250	200	250	250
Dimension (L×W×H)(mm)	522×268×228	522×240×228	522×268×228	522×268×228
G.W.(kg)	72	57	72	72

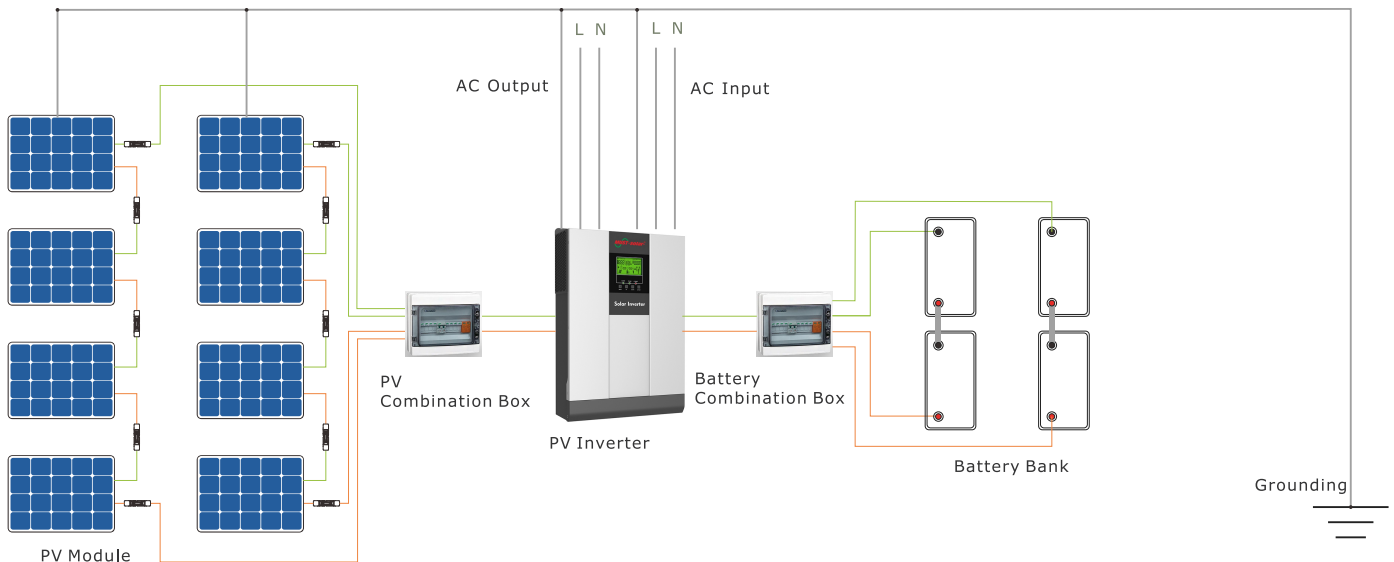
* Rated yield is calculated on GHI of 1460 kwh/m². The yield would vary with the project sites.

Electrical Connection

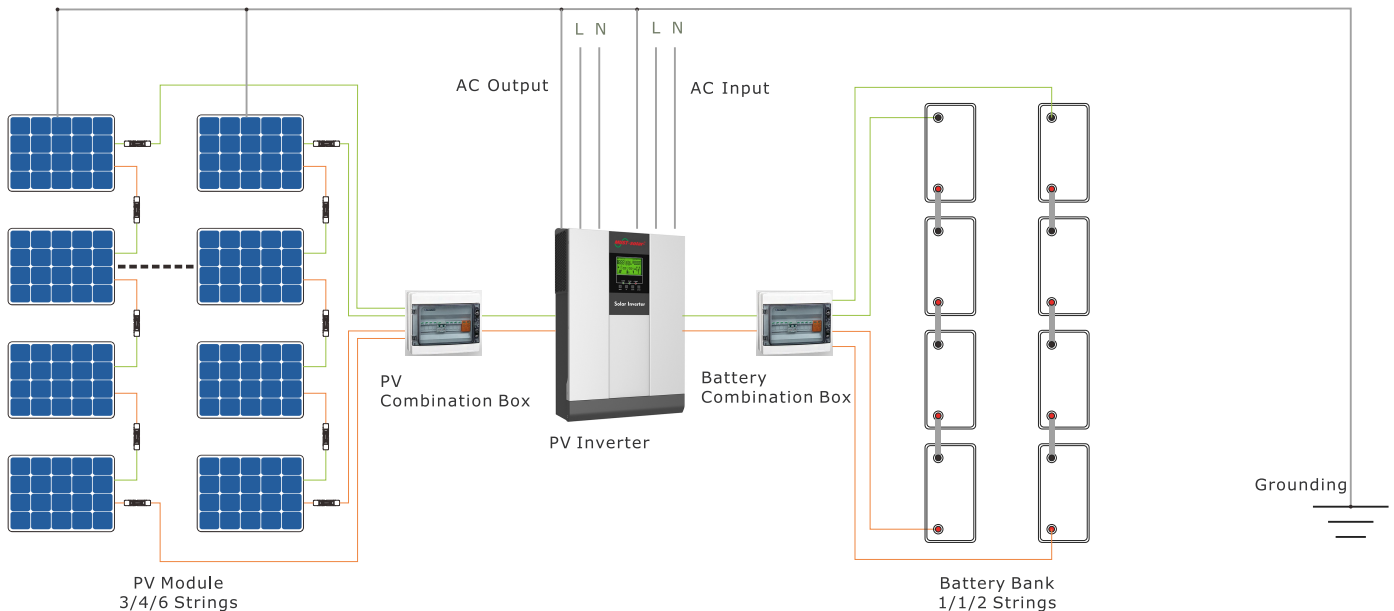
FESS-F 1kW



FESS-F 2kW

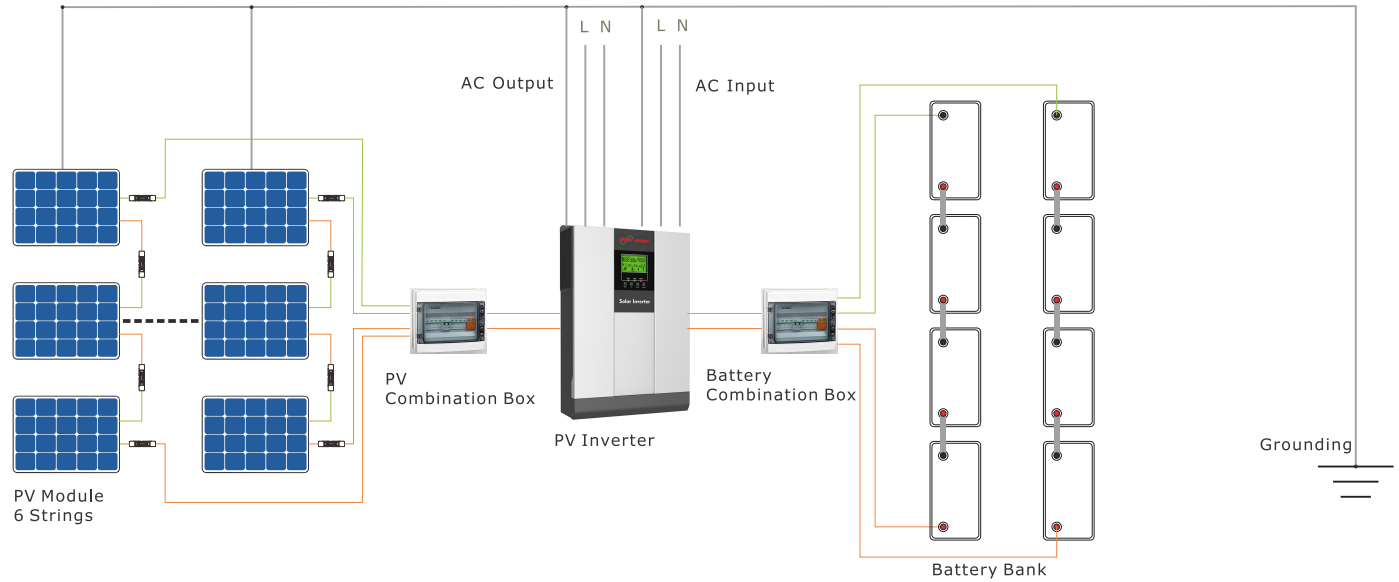


FESS-F 3/4/6kW

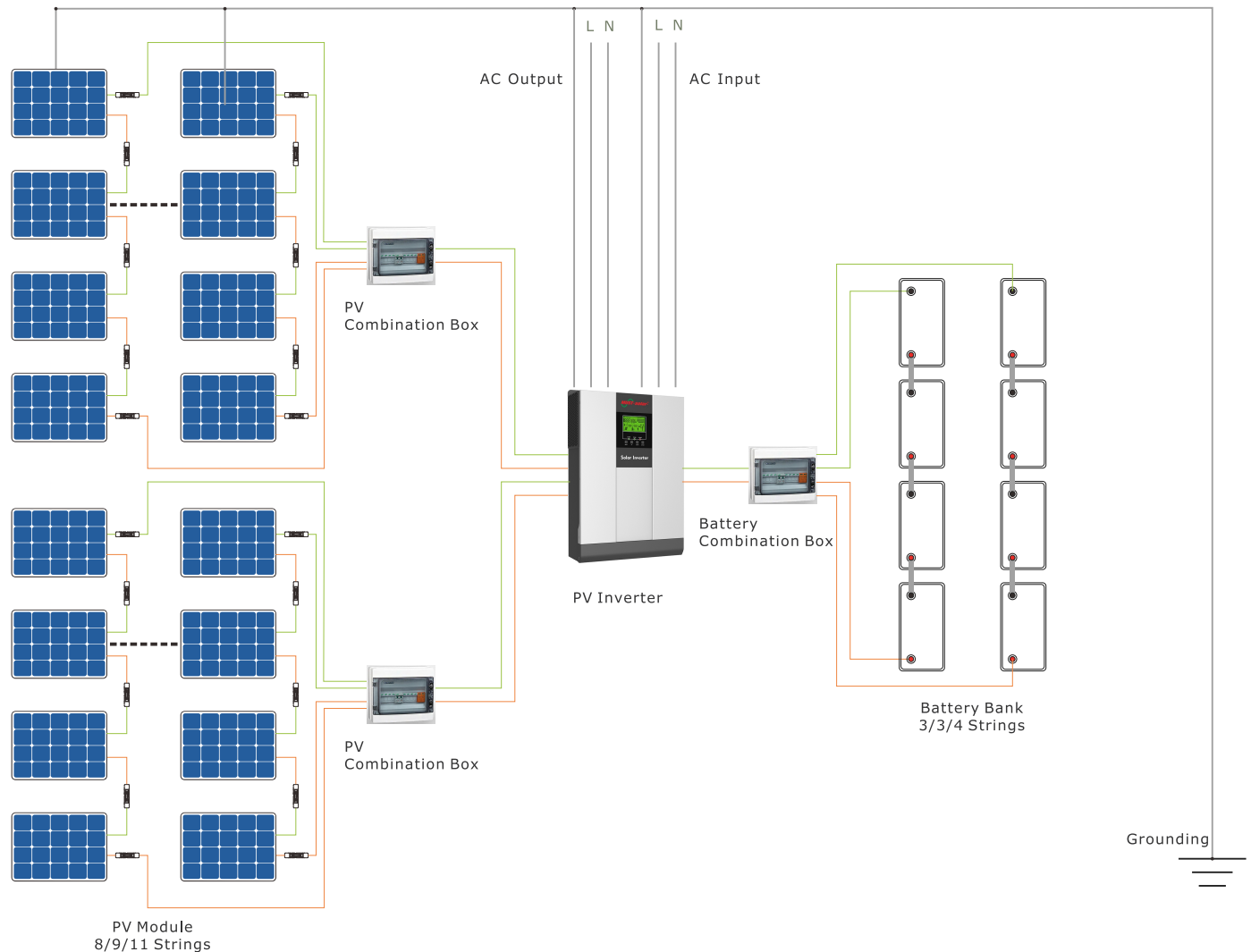


Electrical Connection

FESS-F 5kW



FESS-F 8/10/12kW



Module Layout

1kW Package

2x2 layout
3.4m x 2.2m

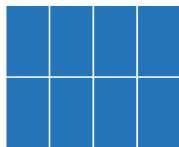


1x4 layout
1.7m x 4.4m



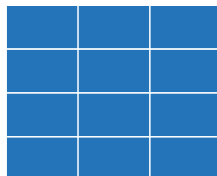
2kW Package

2x4 layout
3.4m x 4.4m

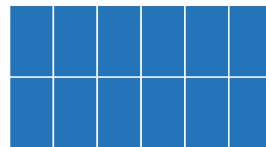


3kW Package

4x3 layout
4.4m x 5.1m

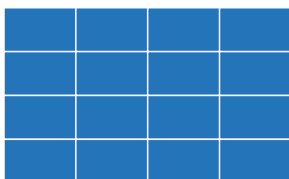


2x6 layout
3.7m x 6.6m

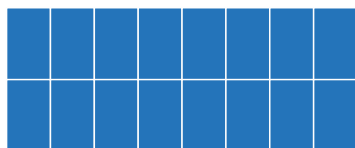


4kW Package

4x4 layout
4.4m x 6.8m

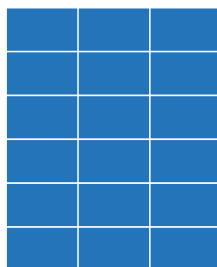


2x8 layout
3.4m x 8.8m

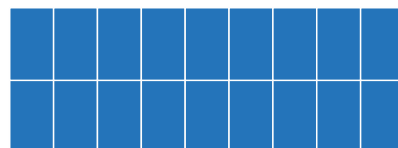


5kW Package

6x3 layout
6.6m x 5.1m

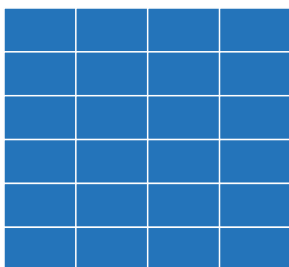


2x9 layout
3.4m x 9.9m

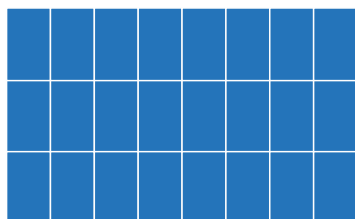


6kW Package

6x4 layout
6.6m x 6.8m

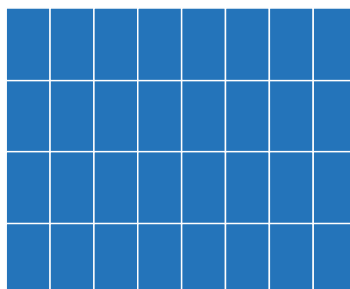


3x8 layout
5.1m x 8.8m



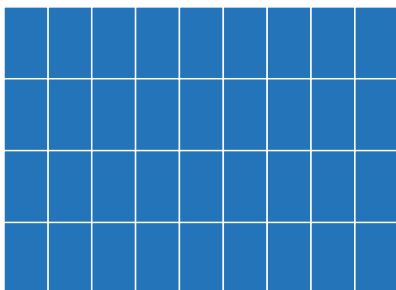
8kW Package

4x8 layout
6.8m x 8.8m



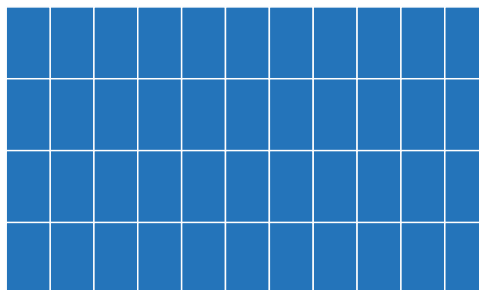
10kW Package

4x9 layout
6.8m x 9.9m

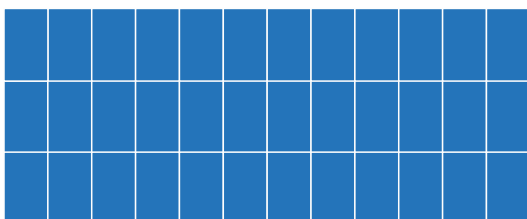


12kW Package

4x11 layout
6.8m x 12.1m



3x12 layout
5.1m x 13.2m



6x8 layout
6.6m x 12.6m

