申泰新能 SENTA

SMART ENERGY / GREEN BUILDING / INNOVATIVE AGRICULTURAL SYSTEM INTEGRATOR

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* Refer to the final version or the actual parameters of the object some parameters will not be reissued after modification

申泰新能 SENTA

智慧能源 / 绿色建筑 / 新型农业 系统集成商

SMART ENERGY / GREEN BUILDING / INNOVATIVE AGRICULTURAL SYSTEM INTEGRATOR

Solar Power Container

Company Profile

Senta Energy Co., Ltd. was founded in 2016， located in Wuxi City, Jiangsu province, the birthplace of the PV industry in China. We focus on solar power system and energy storage business, with new building and new agricultural distributed planting business as the strategic reserve.Set independent research and development, production, sales and service as one of the high-tech enterprises, is committed to providing global users with the whole life cycle intelligent renewable energy, intelligent green building, intelligent smart planting overall solutions.The factory covers an area of 8000 square meters, equipped with professional production equipment and skilled workers, the production process and technology have a full set of guidance and process, and the estimated production capacity of 50 sets of solar power containers per month.

Senta has TUV/CE/ISO and other international certification and management system certification,Applied for more than 60 invention patents and soft publications, more than 60 trademarks and copyrights. Senta was awarded "National HIGH-TECH Enterprise"、" Jiangsu Private Science and Technology Enterprise "、" Small and Medium-sized Science and Technology Enterprise "、" Fledgling Enterprise "and other qualifications.

Manufacturing Base

About Solar Power Container

Brief Introduction



Solar power container uses customized containers that meet maritime standards as carriers, and is equipped with foldable frames,rail and rack systems, inverters, energy storage batteries, and other equipment inside; it has the advantages of modularity, mobility, rapid deployment, simple maintenance, and is suitable for use in areas with electricity shortages and inconvenient electricity generation after wars and disasters, remote areas, islands, oil and gas field exploitation areas, Belt and Road infrastructure areas, etc.

Core Feature

Movable
Flexible and easy to move

All in one
All components integrated in one container

Plug & play
Modular system , easy to install

Expandable
The system can be expanded as required

Low cost
Reduction of diesel consumption

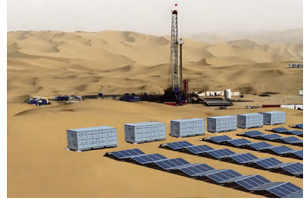
Renewable
Green and environmentally friendly energy

Application Scenario

It mainly includes: mining; military affairs; infrastructure construction; ports of entry; businesses and communities; disaster relief and other six main use scenarios. Some typical use scenarios include: military bases, troops stationed, oil fields and mines, communication base stations, temporary camps, port islands, and some temporary activity scenes are especially suitable.

Mining Works


Oil & gas Exploitation


Mine Mining Area

Application Scenario

Construction Site


Construction Site


Ground Power Station

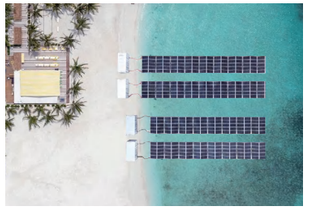
Military Base


Military Base


Troop Training

Ports And Islands


Seaside Port


Island

Business And Community


Seawater Treatment Plant


Agricultural Base

Rescue And Facilities


Re-build After Disaster Or War


Telecom Tower Station

Comparative Project Style Analysis :

Movable Solar Power Container

VS

Traditional Solar Station

Technical Index	Movable Solar Power Container	Traditional Solar Station	Project Advancement
Field Deployment Time	1-2 days	10-15 days	Fast deployment
Implementation Installer	4-6 persons	6-10 persons	Less installers
Turnover Repetition Rate	Transferable, reusable 10 times a year	Not transferable, only fixed use	High reuse rate
Installation Difficulty	Plug&Play	Complex construction procedure	Simple construction steps
Modular Portability	Assembly form, modular, easy to install	No portability, fixed position	Modular system
Environmental Impact	Readily transferable	Affected by climate and disasters	Less affected

Comparison With Diesel Generator (200KW)

Movable Solar Power Container

VS

Diesel Generator

200Kwp Case	Solar Power Container	Diesel Power Generator
Environmental Impact	Renewable energy	Contaminant
Initial Cost	High	Cheap
Fuel Consumption（Year）	0	Machine price * 2.5
Maintenance Cost（Year）	Regular inspection and cleaning	Replacement parts, repairs, refuelling
Total Cost(2 Years)	Cheaper than initial cost	Higher than initial cost
Long-term Reliability	High life span	Easy damage
Return Period（Estimated）	≈8.3 months	> 2 years
RoI(Return On Invenstment)	About 190%	/

Solar power container connect diesel generator： The operation of diesel engines during the day can be reduced, thus reducing CO2 emissions. In addition, operating costs are reduced.

Power SPV —Solar PV Container (Rail Type)

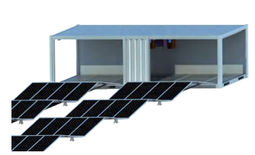
Suitable for large and medium-sized on grid solar power stations, long-term stable and reliable scenarios

SC08GP-M-20K

SC10GP-M-40K

SC20GP-M-80K

SC20HQ-M-100K



SC40GP-M-160K

SC40HQ-M-200K

Power SES — Solar ESS Container (Rail Type)

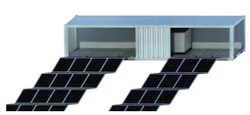
Suitable for large and medium-sized hybrid or off grid solar power stations, long-term stable and reliable scenarios

SC08GP-M-18K20

SC10GP-M-30K40

SC20GP-M-60K215

SC20HQ-M-75K215



SC40GP-M-140K215

SC40HQ-M-150K430

Power SPV —Solar PV Container (Wheel Type)

Suitable for short-term quick installation scenarios

SC08GP-M-20K-WF

SC08GP-M-18K20-WF

SC10GP-M-40K-W

SC10GP-M-30K40-W

SC20GP-M-80K-W

SC20GP-M-60K215-W

SC20HQ-M-100K-W

SC20HQ-M-75K215-W

Power SPV —Solar PV Container (Float Type)

Suitable for islands, artificial islands and other scenes

SC08GP-M-20K-F

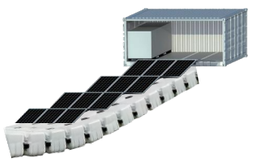
SC08GP-M-18K20-F

SC10GP-M-40K-F

SC10GP-M-30K40-F

SC20GP-M-80K-F

SC20GP-M-60K215-F

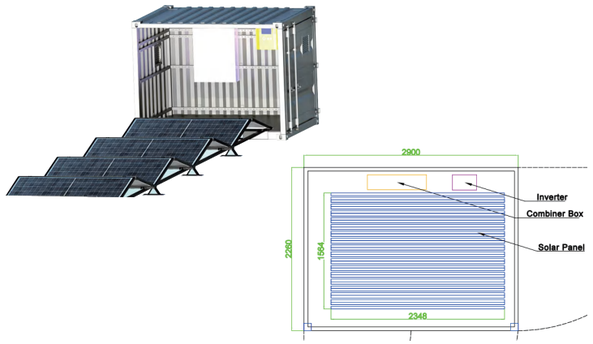


SC20HQ-M-100K-F

SC20HQ-M-75K215-F

Power SPV —Solar PV Container (Rail Type)

SC08GP-M-20K



System Product Model	SC08GP-M-20K	
Total Weight (Tons)	5	
Type of Container	8GPF x1	①
Solar Array Capacity (Pmax / kWp)	20.23	
Type of Solar Module (W)	595x34	②
String Inverter (kW)	20x1	③
Bracket (Number of Module per Sheet)	1x34	④
Total Unfolded Footprint (L*W*H/m)	46*2.3(2.4)*0.6(2.2)	
Occupied Area of Whole System (m²)	112.4 (46*2.43)	
Complete Unfolding Time (mins)	60	
Complete Folding Time (mins)	50	
Installation Persons	4	

① Container

Type of Container	8GPF
External Dimensions (L*W*H/mm)	2900*2260*2200
Container Weight (Tons)	1.6
Container Doors	Two Sides

② Solar Panel

Solar Module Type	Topcon/HJT
Max.Power (Pmax/Wp)	595
Max. Power Voltage (Vm / V)	44.64
Max. Power Current (Im / A)	13.33
Open Circuit Voltage (Voc / V)	52.58
Short Circuit Current (Isc / A)	13.99
Product Dimensions (mm)	2278*1134*30
Weight (Kgs)	31.8
Quantity of Solar Module (pcs)	34

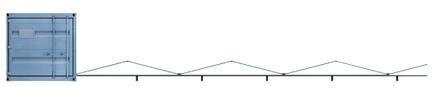
③ Inverter

Inverter Type	On Grid
Inverter Capacity (kW)	20
Max. PV Power (Pmax/Wp)	26000
Nominal AC Output Power (W)	20000
Maximum AC Output Power (W)	22000
Nominal AC Voltage (V)	3L/N/PE 220/380V, 230/400V
AC Grid Frequency Range (Hz)	50/45-55, 60/55-65
Maximum Output Current (A)	33.3/31.9
Dimensions (WxHxD/mm)	362*527*220
Weight (kg)	20
Operating Temperature Range (℃)	-25~60℃, >45℃ derating
Communication	RS485/RS232/Wifi/LAN

④ Bracket

Material of Bracket	Carbon Steel Q235B
Single Bracket Dimension (LxWxD)	2348*1204*30
Angle of Unfolding Bracket (°)	±15 (10~20)
Length of Unfolding Bracket (m)	42
Occupied Area of Unfolding Bracket (m²)	98 (17*2.45*2.35)
Quantity of Bracket (Page)	34

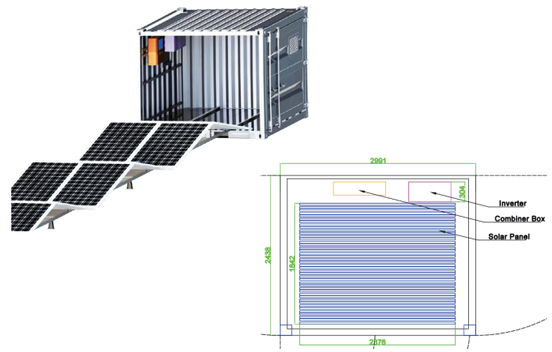
Top View



Side View

Front View

SC10GP-M-40K



System Product Model	SC10GP-M-40K	
Total Weight (Tons)	8	
Type of Container	10GPx1	①
Solar Array Capacity (Pmax / kWp)	42.24	
Type of Solar Module (W)	480x88	②
String Inverter (kW)	40x1	③
Bracket (Number of Module per Sheet)	2x44	④
Total Unfolded Footprint (L*W*H/m)	88*2.38(3.0)*0.8(2.6)	
Occupied Area of Whole System (m²)	276.3 (92.4*2.99)	
Complete Unfolding Time (mins)	80	
Complete Folding Time (mins)	60	
Installation Persons	4	

① Container

Type of Container	10GP
External Dimensions (L*W*H/mm)	2991*2438*2591
Container Weight (Tons)	2.2
Container Doors	Three Sides

② Solar Panel

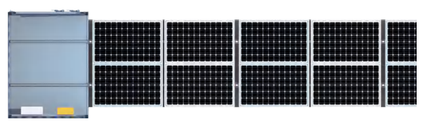
Solar Module Type	Topcon/HJT
Max.Power (Pmax/Wp)	480
Max. Power Voltage (Vm / V)	35.38
Max. Power Current (Im / A)	13.57
Open Circuit Voltage (Voc / V)	42.71
Short Circuit Current (Isc / A)	14.31
Product Dimensions (mm)	1902*1134*30
Weight (Kgs)	25.5
Quantity of Solar Module (pcs)	88

③ Inverter

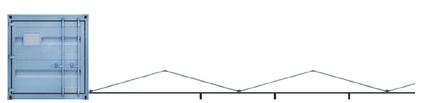
Inverter Type	On Grid
Inverter Capacity (kW)	40
Max. PV Power (Pmax/Wp)	52000
Nominal AC Output Power (W)	40000
Maximum AC Output Power (W)	44000
Nominal AC Voltage (V)	3L/N/PE 220/380V, 230/400V
AC Grid Frequency Range (Hz)	50/45-55, 60/55-65
Maximum Output Current (A)	66.7/63.8
Dimensions (WxHxD/mm)	434*570*243
Weight (kg)	39
Operating Temperature Range (℃)	-25~60℃, >45℃ derating
Communication	RS485/RS232/Wifi/LAN

④ Bracket

Material of Bracket	Carbon Steel Q235B
Single Bracket Dimension (LxWxD)	2376*1972*30
Angle of Unfolding Bracket (°)	±15 (10~20)
Length of Unfolding Bracket (m)	88
Occupied Area of Unfolding Bracket (m²)	211 (88*2.4)
Quantity of Bracket (Page)	44



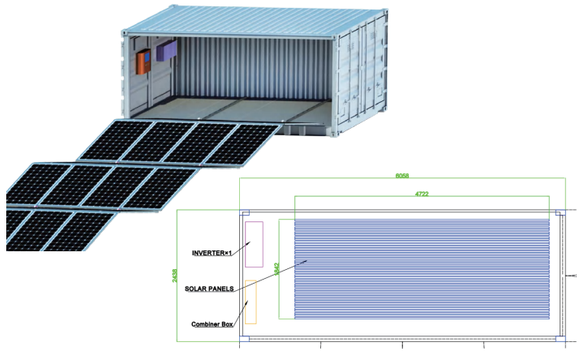
Top View



Side View

Front View

SC20GP-M-80K



System Product Model	SC20GP-M-80K	
Total Weight (Tons)	12.5	
Type of Container	20GPx1	①
Solar Array Capacity (Pmax / kWp)	84.48	
Type of Solar Module (W)	480x176	②
String Inverter (kW)	100x1	③
Bracket (Number of Module per Sheet)	4 x44	④
Total Unfolded Footprint (L*W*H/m)	93*4.71(6.0)*0.8(2.6)	
Occupied Area of Whole System (m²)	558(93*6)	
Complete Unfolding Time (mins)	120	
Complete Folding Time (mins)	80	
Installation Persons	4	

① Container

Type of Container	20GP
External Dimensions (L*W*H/mm)	6058*2438*2591
Container Weight (Tons)	3.2
Container Doors	Two Sides

② Solar Panel

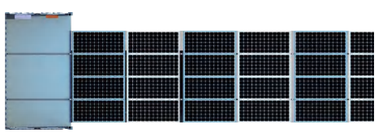
Solar Module Type	Topcon/HJT
Max.Power (Pmax/Wp)	480
Max. Power Voltage (Vm / V)	35.38
Max. Power Current (Im / A)	13.57
Open Circuit Voltage (Voc / V)	42.71
Short Circuit Current (Isc / A)	14.31
Product Dimensions (mm)	1902*1134*30
Weight (Kgs)	25.5
Quantity of Solar Module (pcs)	176

③ Inverter

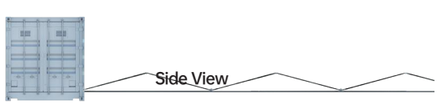
Inverter Type	On Grid
Inverter Capacity (kW)	100
Max. PV Power (Pmax/Wp)	150000
Nominal AC Output Power (W)	100000
Maximum AC Output Power (W)	110000
Nominal AC Voltage (V)	3L/N/PE 220/380V, 230/400V
AC Grid Frequency Range (Hz)	50/45-55, 60/55-65
Maximum Output Current (A)	166.7/159.4
Dimensions (WxHxD/mm)	824×516×312.7
Weight (kg)	81
Operating Temperature Range (℃)	-25~60℃, >45℃ derating
Communication	RS485/RS232/Wifi/LAN

④ Bracket

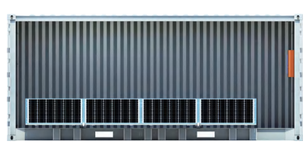
Material of Bracket	Carbon Steel Q235B
Single Bracket Dimension (LxWxD/mm)	4722*1972*30
Angle of Unfolding Bracket (°)	±15 (10~20)
Length of Unfolding Bracket (m)	88
Occupied Area of Unfolding Bracket (m²)	415
Quantity of Bracket (Page)	44



Top View

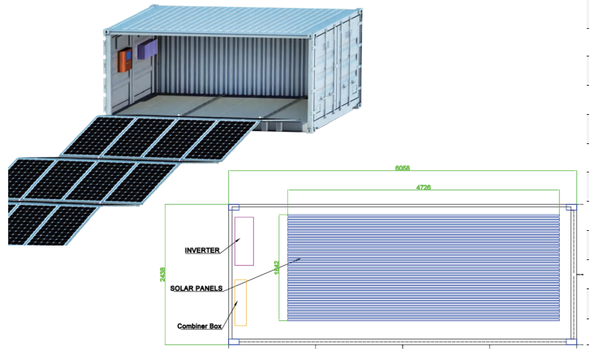


Side View



Front View

SC20HQ-M-100K



System Product Model	SC20HQ-M-100K	
Total Weight (Tons)	15	
Type of Container	20HQx1	①
Solar Array Capacity (Pmax / kWp)	104.72	
Type of Solar Module (W)	595x176	②
String Inverter (kW)	100x1	③
Bracket (Number of Module per Sheet)	4x44	④
Total Unfolded Footprint (L*W*H/m)	104*4.71(6.0)*0.9(2.9)	
Occupied Area of Whole System (m²)	650.4(108.4*6)	
Complete Unfolding Time (mins)	120	
Complete Folding Time (mins)	80	
Installation Persons	4	

① Container

Type of Container	20HQ
External Dimensions (L*W*H/mm)	6058*2438*2896
Container Weight (Tons)	4
Container Doors	Two Sides

② Solar Panel

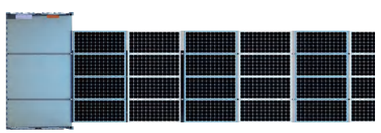
Solar Module Type	Topcon/HJT
Max.Power (Pmax/Wp)	595
Max. Power Voltage (Vm / V)	44.64
Max. Power Current (Im / A)	13.33
Open Circuit Voltage (Voc / V)	52.58
Short Circuit Current (Isc / A)	13.99
Product Dimensions (mm)	2278*1134*30
Weight (Kgs)	31.8
Quantity of Solar Module (pcs)	176

③ Inverter

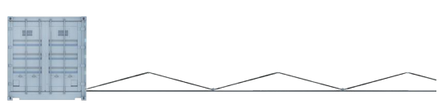
Inverter Type	On Grid
Inverter Capacity (kW)	100
Max. PV Power (Pmax/Wp)	150000
Nominal AC Output Power (W)	100000
Maximum AC Output Power (W)	110000
Nominal AC Voltage (V)	3L/N/PE 220/380V, 230/400V
AC Grid Frequency Range (Hz)	50/45-55, 60/55-65
Maximum Output Current (A)	166.7/159.4
Dimensions (WxHxD/mm)	824×516×312.7
Weight (kg)	81
Operating Temperature Range (℃)	-25~60℃, >45℃ derating
Communication	RS485/RS232/Wifi/LAN

④ Bracket

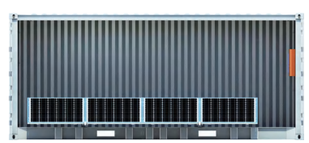
Material of Bracket	Carbon Steel Q235B
Single Bracket Dimension (LxWxD/mm)	4726*2348*30
Angle of Unfolding Bracket (°)	±15 (10~20)
Length of Unfolding Bracket (m)	104
Occupied Area of Unfolding Bracket (m²)	492(104*4.73)
Quantity of Bracket (Page)	44



Top View

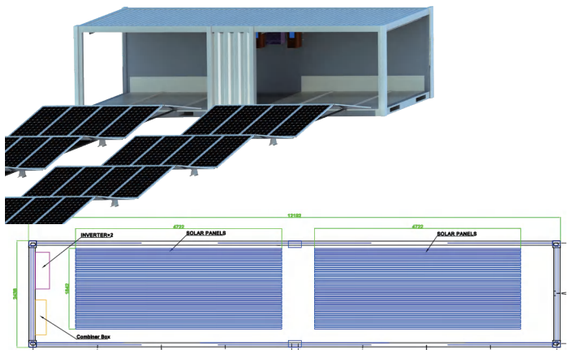


Side View



Front View

SC40GP-M-160K



System Product Model	SC40GP-M-160K	
Total Weight (Tons)	25	
Type of Container	40HQ x1	①
Solar Array Capacity (Pmax / kWp)	168.96	
Type of Solar Module (W)	480x352	②
String Inverter (kW)	80x2	③
Bracket (Number of Module per Sheet)	4x88	④
Total Unfolded Footprint (L*W*H/m)	93*10.5(12.0)*0.8(2.9)	
Occupied Area of Whole System (m²)	1108 (93*12)	
Complete Unfolding Time (mins)	180	
Complete Folding Time (mins)	120	
Installation Persons	6	

① Container

Type of Container	40HQ (GP Plus Height)
External Dimensions (L*W*H/mm)	12192*2438*2896
Container Weight (Tons)	7
Container Doors	Two Sides

② Solar Panel

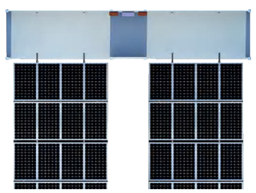
Solar Module Type	Topcon/HJT
Max.Power (Pmax/Wp)	480
Max. Power Voltage (Vm / V)	35.38
Max. Power Current (Im / A)	13.57
Open Circuit Voltage (Voc / V)	42.71
Short Circuit Current (Isc / A)	14.31
Product Dimensions (mm)	1902*1134*30
Weight (Kgs)	25.5
Quantity of Solar Module (pcs)	352

③ Inverter

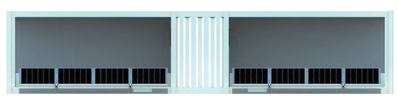
Inverter Type	On Grid
Inverter Capacity (kW)	100
Max. PV Power (Pmax/Wp)	150000
Nominal AC Output Power (W)	100000
Maximum AC Output Power (W)	110000
Nominal AC Voltage (V)	3L/N/PE 220/380V, 230/400V
AC Grid Frequency Range (Hz)	50/45-55, 60/55-65
Maximum Output Current (A)	166.7/159.4
Dimensions (WxHxD/mm)	824×516×312.7
Weight (kg)	81
Operating Temperature Range (℃)	-25~60℃, >45℃ derating
Communication	RS485/RS232/Wifi/LAN

④ Bracket (1/2)

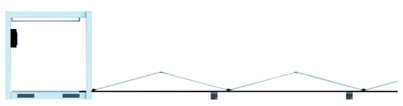
Material of Bracket	Carbon Steel Q235B
Single Bracket Dimension (LxWxD/mm)	4722*1972*30
Angle of Unfolding Bracket (°)	±15 (10~20)
Length of Unfolding Bracket (m)	88
Occupied Area of Unfolding Bracket (m²)	924(88*10.5)
Quantity of Bracket (Page)	88



Top View

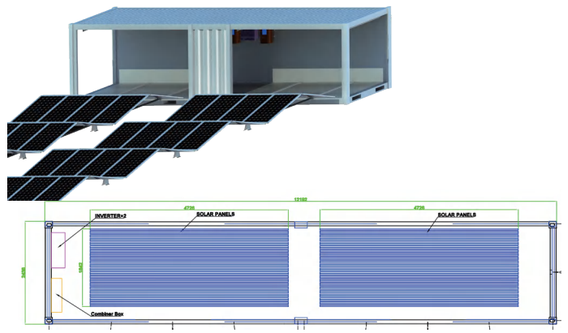


Front View



Side View

SC40HQ-M-200K



System Product Model	SC40HQ-M-200K	
Total Weight (Tons)	30	
Type of Container	40HQPx1	①
Solar Array Capacity (Pmax / kWp)	209.44	
Type of Solar Module (W)	595x352	②
String Inverter (kW)	100x2	③
Bracket (Number of Module per Sheet)	4x88	④
Total Unfolded Footprint (L*W*H/m)	104*4.71(6.0)*0.9(2.9)	
Occupied Area of Whole System (m²)	1300(108.4*12)	
Complete Unfolding Time (mins)	180	
Complete Folding Time (mins)	120	
Installation Persons	6	

① Container

Type of Container	40HQP (HQ Plus Height)
External Dimensions (L*W*H/mm)	12192*2438*3100
Container Weight (Tons)	8
Container Doors	Two Sides

② Solar Panel

Solar Module Type	Topcon/HJT
Max.Power (Pmax/Wp)	595
Max. Power Voltage (Vm / V)	44.64
Max. Power Current (Im / A)	13.33
Open Circuit Voltage (Voc / V)	52.58
Short Circuit Current (Isc / A)	13.99
Product Dimensions (mm)	2278*1134*30
Weight (Kgs)	31.8
Quantity of Solar Module (pcs)	352

③ Inverter

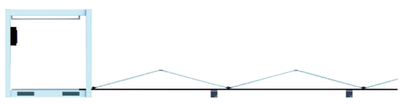
Inverter Type	On Grid
Inverter Capacity (kW)	100
Max. PV Power (Pmax/Wp)	150000
Nominal AC Output Power (W)	100000
Maximum AC Output Power (W)	110000
Nominal AC Voltage (V)	3L/N/PE 220/380V, 230/400V
AC Grid Frequency Range (Hz)	50/45-55, 60/55-65
Maximum Output Current (A)	166.7/159.4
Dimensions (WxHxD/mm)	824×516×312.7
Weight (kg)	81
Operating Temperature Range (℃)	-25~60℃, >45℃ derating
Communication	RS485/RS232/Wifi/LAN

④ Bracket (1/2)

Material of Bracket	Carbon Steel Q235B
Single Bracket Dimension (LxWxD/mm)	4726*2348*30
Angle of Unfolding Bracket (°)	±15 (10~20)
Length of Unfolding Bracket (m)	104
Occupied Area of Unfolding Bracket (m²)	1092 (104*10.5)
Quantity of Bracket (Page)	88

Top View

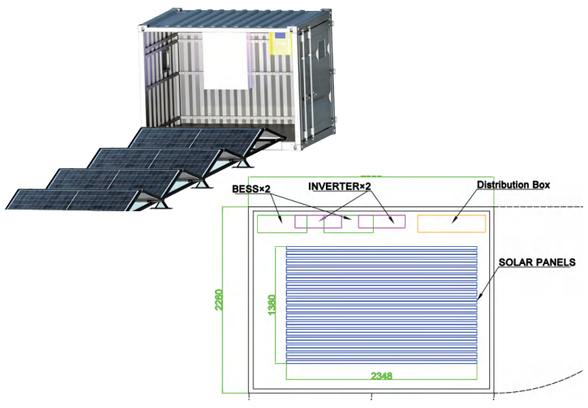
Front View



Side View

Power SES — Solar ESS Container (Rail Type)

SC08GP-M-18K20



System Product Model	SC08GP-M-18K20	
Total Weight (Tons)	4.8	
Type of Container	8GPFx1	①
Solar Array Capacity (Pmax / kWp)	17.85	
Type of Solar Module (W)	595x30	②
String Inverter (kW)	12x2	③
Bracket (Number of Module per Sheet)	1x30	④
Lithium Battery Storage (kWh)	10.24x2	⑤
Diesel Generator (KVA) (Optional)	5.5x1	⑥
Total Unfolded Footprint (L*W*H/m)	41*2.3(2.9)*0.6(2.2)	
Occupied Area of Whole System (m²)	120(41.26*2.9)	
Complete Unfolding Time (mins)	60	
Complete Folding Time (mins)	50	
Installation Persons	4	

① Container

Type of Container	8GPF
External Dimensions (L*W*H/mm)	2900*2260*2200
Container Weight (Tons)	1.6
Container Doors	Two Sides

② Solar Panel

Solar Module Type	Topcon/HJT
Max.Power (Pmax/Wp)	595
Max. Power Voltage (Vm / V)	44.64
Max. Power Current (Im / A)	13.33
Open Circuit Voltage (Voc / V)	52.58
Short Circuit Current (Isc / A)	13.99
Product Dimensions (mm)	2278*1134*30
Weight (Kgs)	31.8
Quantity of Solar Module (pcs)	30

③ Inverter

Inverter Type	Hybrid
Inverter Capacity (kW)	12
Max. PV Power (Pmax/Wp)	18000
Nominal AC Output Power (W)	12000
Maximum AC Output Power (W)	13200
Nominal AC Voltage (V)	3L/N/PE 220/380V, 230/400V
AC Grid Frequency Range (Hz)	50/45-55, 60/55-65
Maximum Output Current (A)	20/19.1
Dimensions (WxHxD/mm)	422*658*254
Weight (kg)	38
Operating Temperature Range (℃)	-40~60℃, >45℃ derating
Communication	RS485/RS232/CAN/WIFI/LAN

④ Bracket

Material of Bracket	Carbon Steel Q235B
Single Bracket Dimension (LxWxD/mm)	2348*1204*30
Angle of Unfolding Bracket (°)	±15 (10~20)
Length of Unfolding Bracket (m)	37
Occupied Area of Unfolding Bracket (m²)	86 (15*2.45*2.35)
Quantity of Bracket (Page)	30

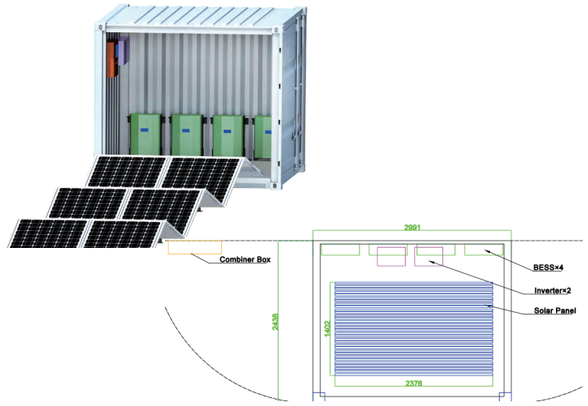
⑤ Energy Storage System

Battery Type	LFP / LV
Rated Capacity (kWh)	10.24 (10~20)
Nominal Dis-charge Power (kW)	5
Peak Power (Only Discharge)	10kW for 3 seconds
Rated Voltage (Vdc)	51.2
Dimensions (WxHxD/mm)	645*995*225
Weight (Kgs)	109
Communication	CAN/RS485
Operating Temperature Range (℃)	0℃~+45℃
Quantity of Battery (set)	2

⑥ Diesel Generator (Optional)

Module Type	KDE6700X3
Rated Output (KVA)	5.5
Max. Output (KVA)	6
Rated Frequency (Hz)	50
Rated Voltage (V)	230/400
Rated Current (A)	7.9
Overall dimension (L×W×H/mm)	720*492*650
Weight (Kgs)	95
Quantity of DG (set)	1

SC10GP-M-30K40



System Product Model	SC10GP-M-30K40	
Total Weight (Tons)	7	
Type of Container	10GPx1	①
Solar Array Capacity (Pmax / kWp)	30.72	
Type of Solar Module (W)	480x64	②
String Inverter (kW)	12x2	③
Bracket (Number of Module per Sheet)	2x32	④
Lithium Battery Storage (kWh)	10.24x4	⑤
Diesel Generator (KVA) (Optional)	5.5x1	⑥
Total Unfolded Footprint (L*W*H/m)	69*2.38(3.0)*0.8(2.6)	
Occupied Area of Whole System (m²)	163 (69*2.38)	
Complete Unfolding Time (mins)	80	
Complete Folding Time (mins)	60	
Installation Persons	4	

① Container

Type of Container	10GP
External Dimensions (L*W*H/mm)	2991*2438*2591
Container Weight (Tons)	2.2
Container Doors	Three Sides

② Solar Panel

Solar Module Type	Topcon/HJT
Max.Power (Pmax/Wp)	480
Max. Power Voltage (Vm / V)	35.38
Max. Power Current (Im / A)	13.57
Open Circuit Voltage (Voc / V)	42.71
Short Circuit Current (Isc / A)	14.31
Product Dimensions (mm)	1902*1134*30
Weight (Kgs)	25.5
Quantity of Solar Module (pcs)	64

③ Inverter

Inverter Type	Hybrid
Inverter Capacity (kW)	12
Max. PV Power (Pmax/Wp)	18000
Nominal AC Output Power (W)	12000
Maximum AC Output Power (W)	13200
Nominal AC Voltage (V)	3L/N/PE 220/380V, 230/400V
AC Grid Frequency Range (Hz)	50/45-55, 60/55-65
Maximum Output Current (A)	20/19.1
Dimensions (WxHxD/mm)	422*658*254
Weight (kg)	38
Operating Temperature Range (℃)	-40~60℃, >45℃ derating
Communication	RS485/RS232/CAN/WIFI/LAN

④ Bracket

Material of Bracket	Carbon Steel Q235B
Single Bracket Dimension (LxWxD/mm)	2376*1972*30
Angle of Unfolding Bracket (°)	±15 (10~20)
Length of Unfolding Bracket (m)	64
Occupied Area of Unfolding Bracket (m²)	152 (64*2.38)
Quantity of Bracket (Page)	32

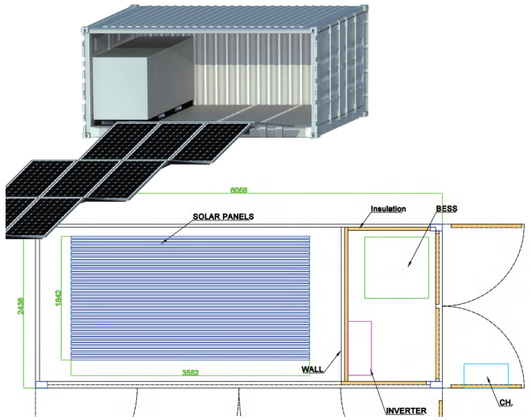
⑤ Energy Storage System

Battery Type	LFP / LV
Rated Capacity (kWh)	10.24 (10~20)
Nominal Dis-charge Power (kW)	5
Peak Power (Only Discharge)	10kW for 3 seconds
Rated Voltage (Vdc)	51.2
Dimensions (WxHxD/mm)	645*995*225
Weight (Kgs)	109
Communication	CAN/RS485
Operating Temperature Range (℃)	0℃~+45℃
Quantity of Battery (set)	4

⑥ Diesel Generator (Optional)

Module Type	KDE6700X3
Rated Output (KVA)	5.5
Max. Output (KVA)	6
Rated Frequency (Hz)	50
Rated Voltage (V)	230/400
Rated Current (A)	7.9
Overall dimension (L×W×H/mm)	720*492*650
Weight (Kgs)	95
Quantity of DG (set)	1

SC20GP-M-60K215



System Product Model	SC20GP-M-60K215	
Total Weight (Tons)	13	
Type of Container	20GPx1	①
Solar Array Capacity (Pmax / kWp)	63.36	
Type of Solar Module (W)	480x132	②
String Inverter (kW)	50x1	③
Bracket (Number of Module per Sheet)	3x44	④
Lithium Battery Storage (kWh)	229x1	⑤
Diesel Generator (KVA) (Optional)	13.8x1	⑥
Total Unfolded Footprint (L*W*H/m)	93*2.4(6.0)*0.8(2.6)	
Occupied Area of Whole System (m²)	558 (93*6)	
Complete Unfolding Time (mins)	120	
Complete Folding Time (mins)	80	
Installation Persons	4	

① Container

Type of Container	20GP
External Dimensions (L*W*H/mm)	6058*2438*2591
Container Weight (Tons)	3.2
Container Doors	Two Sides

② Solar Panel

Solar Module Type	Topcon/HJT
Max.Power (Pmax/Wp)	480
Max. Power Voltage (Vm / V)	35.38
Max. Power Current (Im / A)	13.57
Open Circuit Voltage (Voc / V)	42.71
Short Circuit Current (Isc / A)	14.31
Product Dimensions (mm)	1902*1134*30
Weight (Kgs)	25.5
Quantity of Solar Module (pcs)	132

③ Inverter/ PCS

Inverter Type	Hybrid/ Off Grid PCS
Inverter Capacity (kW)	50/100
Max. PV Power (Pmax/Wp)	80000/150000
Nominal AC Output Power (W)	50000/100000
Maximum AC Output Power (W)	55000/110000
Nominal AC Voltage (V)	3L/N/PE 220/380V, 230/400V
AC Grid Frequency Range (Hz)	50/45-55, 60/55-65
Maximum Output Current (A)	79.8/152
Dimensions (WxHxD/mm)	527*894*294/500*670*270
Weight (kg)	80/60
Operating Temperature Range (℃)	-40~60℃, >45℃ derating
Communication	RS485/RS232/CAN/WIFI/LAN

④ Energy Storage System

Battery Type	LFP / HV
Rated Capacity (kWh)	229 (215~258)
Nominal Dis-charge Power (kW)	100
Battery Voltage Range (Vdc)	716~908
Nominal Current (A)	160 (0.5C)
Dimensions (WxHxD/mm)	910*2200*950
Weight (Kgs)	2500
Communication	CAN/RS485
Operating Temperature Range (℃)	-30℃~+45℃, >45℃ Derating
Quantity of Battery (set)	1

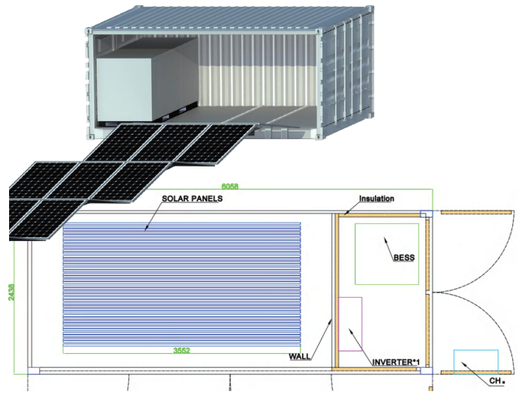
⑤ Bracket

Material of Bracket	Carbon Steel Q235B
Single Bracket Dimension (LxWxD/mm)	3552*1972*30
Angle of Unfolding Bracket (°)	±15 (10~20)
Length of Unfolding Bracket (m)	88
Occupied Area of Unfolding Bracket (m²)	312 (88*3.55)
Quantity of Bracket (Page)	44

⑥ Diesel Generator (Optional)

Module Type	KDE16EA3
Rated Output (KVA)	13.8
Max. Output (KVA)	15
Rated Frequency (Hz)	50
Rated Voltage (V)	203/400
Rated Current (A)	47.8
Overall dimension (L×W×H/mm)	930*660*910
Weight (Kgs)	230
Quantity of DG (set)	1

SC20HQ-M-75K215



System Product Model	SC20HQ-M-75K215	
Total Weight (Tons)	15	
Type of Container	20HQx1	①
Solar Array Capacity (Pmax / kWp)	78.54	
Type of Solar Module (W)	595x132	②
String Inverter (kW)	60/100x1	③
Bracket (Number of Module per Sheet)	3x44	④
Lithium Battery Storage (kWh)	229x1	⑤
Diesel Generator (KVA) (Optional)	13.8x1	⑥
Total Unfolded Footprint (L*W*H/m)	108*3.55(6.0)*0.9(2.9)	
Occupied Area of Whole System (m²)	648 (108*6)	
Complete Unfolding Time (mins)	120	
Complete Folding Time (mins)	80	
Installation Persons	4	

① Container

Type of Container	20HQ
External Dimensions (L*W*H/mm)	6058*2438*2896
Container Weight (Tons)	3.4
Container Doors	Two Sides

② Solar Panel

Solar Module Type	Topcon/HJT
Max.Power (Pmax/Wp)	595
Max. Power Voltage (Vm / V)	44.64
Max. Power Current (Im / A)	13.33
Open Circuit Voltage (Voc / V)	52.58
Short Circuit Current (Isc / A)	13.99
Product Dimensions (mm)	2278*1134*30
Weight (Kgs)	31.8
Quantity of Solar Module (pcs)	132

③ Inverter / PCS

Inverter Type	Hybrid/ Off Grid PCS
Inverter Capacity (kW)	60/100
Max. PV Power (Pmax/Wp)	96000/150000
Nominal AC Output Power (W)	60000/100000
Maximum AC Output Power (W)	66000/110000
Nominal AC Voltage (V)	3L/N/PE 220/380V, 230/400V
AC Grid Frequency Range (Hz)	50/45-55, 60/55-65
Maximum Output Current (A)	95.7/152
Dimensions (WxHxD/mm)	606*927*314/500*670*270
Weight (kg)	97.5/60
Operating Temperature Range (℃)	-40~60℃, >45℃ derating
Communication	RS485/RS232/CAN/WIFI/LAN

④ Energy Storage System

Battery Type	LFP / HV
Rated Capacity (kWh)	229 (215~258)
Nominal Dis-charge Power (kW)	100
Battery Voltage Range (Vdc)	716~908
Nominal Current (A)	160 (0.5C)
Dimensions (WxHxD/mm)	910*2200*950
Weight (Kgs)	2500
Communication	CAN/RS485
Operating Temperature Range (℃)	-30℃~+45℃, >45℃ Derating
Quantity of Battery (set)	1

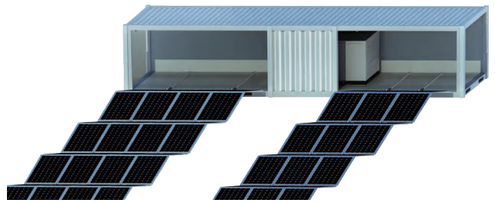
⑤ Bracket

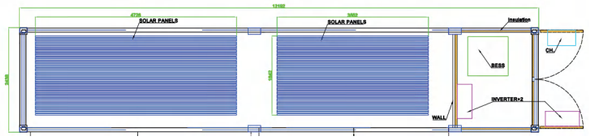
Material of Bracket	Carbon Steel Q235B
Single Bracket Dimension (LxWxD/mm)	3552*2348*30
Angle of Unfolding Bracket (°)	±15 (10~20)
Length of Unfolding Bracket (m)	104
Occupied Area of Unfolding Bracket (m²)	369 (104*3.55)
Quantity of Bracket (Page)	44

⑥ Diesel Generator (Optional)

Module Type	KDE16EA3
Rated Output (KVA)	13.8
Max. Output (KVA)	15
Rated Frequency (Hz)	50
Rated Voltage (V)	203/400
Rated Current (A)	47.8
Overall dimension (L×W×H/mm)	930*660*910
Weight (Kgs)	230
Quantity of DG (set)	1

SC40GP-M-140K215





System Product Model	SC40GP-M-140K215	
Total Weight (Tons)	26	
Type of Container	40HQx1	①
Solar Array Capacity (Pmax / kWp)	148	
Type of Solar Module (W)	480 x(176+132)	②
String Inverter (kW)	60*2/100 x1	③
Bracket (Number of Module per Sheet)	(4+3)x44	④
Lithium Battery Storage (kWh)	229x1	⑤
Diesel Generator (KVA) (Optional)	13.8x1	⑥
Total Unfolded Footprint (L*W*H/m)	93*9.3(12.0)*0.8(2.6)	
Occupied Area of Whole System (m²)	1116 (93*12)	
Complete Unfolding Time (mins)	180	
Complete Folding Time (mins)	120	
Installation Persons	6	

① Container

Type of Container	40HQ
External Dimensions (L*W*H/mm)	12192*2438*2896
Container Weight (Tons)	7
Container Doors	Two Sides

② Solar Panel

Solar Module Type	Topcon/HJT
Max.Power (Pmax/Wp)	480
Max. Power Voltage (Vm / V)	35.38
Max. Power Current (Im / A)	13.57
Open Circuit Voltage (Voc / V)	42.71
Short Circuit Current (Isc / A)	14.31
Product Dimensions (mm)	1902*1134*30
Weight (Kgs)	25.5
Quantity of Solar Module (pcs)	308

③ Inverter / PCS

Inverter Type	Hybrid/ Off Grid PCS
Inverter Capacity (kW)	60/100
Max. PV Power (Pmax/Wp)	96000/150000
Nominal AC Output Power (W)	60000/100000
Maximum AC Output Power (W)	66000/110000
Nominal AC Voltage (V)	3L/N/PE 220/380V, 230/400V
AC Grid Frequency Range (Hz)	50/45-55, 60/55-65
Maximum Output Current (A)	95.7/152
Dimensions (WxHxD/mm)	606*927*314/500*670*270
Weight (kg)	97.5/60
Operating Temperature Range (℃)	-40~60℃, >45℃ derating
Communication	RS485/RS232/CAN/WIFI/LAN

④ Bracket (1/2)

Material of Bracket	Carbon Steel Q235B
Single Bracket Dimension (LxWxD/mm)	(4722+3552)*1972*30
Angle of Unfolding Bracket (°)	±15 (10~20)
Length of Unfolding Bracket (m)	88
Occupied Area of Unfolding Bracket (m²)	818 (88*9.3)
Quantity of Bracket (Page)	88

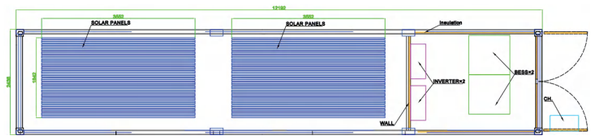
⑤ Energy Storage System

Battery Type	LFP / HV
Rated Capacity (kWh)	229 (215~258)
Nominal Dis-charge Power (kW)	100
Battery Voltage Range (Vdc)	716~908
Nominal Current (A)	160 (0.5C)
Dimensions (WxHxD/mm)	910*2200*950
Weight (Kgs)	2500
Communication	CAN/RS485
Operating Temperature Range (℃)	-30℃~+45℃, >45℃ Derating
Quantity of Battery (set)	1

⑥ Diesel Generator (Optional)

Module Type	KDE16EA3
Rated Output (KVA)	13.8
Max. Output (KVA)	15
Rated Frequency (Hz)	50
Rated Voltage (V)	203/400
Rated Current (A)	47.8
Overall dimension (L×W×H/mm)	930*660*910
Weight (Kgs)	230
Quantity of DG (set)	1

SC40HQ-M-150K430



System Product Model	SC40HQ-M-150K430	
Total Weight (Tons)	31.5	
Type of Container	40HQPx1	①
Solar Array Capacity (Pmax / kWp)	157.08	
Type of Solar Module (W)	595x(132+132)	②
String Inverter (kW)	60/100x2	③
Bracket (Number of Module per Sheet)	(3+3)x44	④
Lithium Battery Storage (kWh)	229x2	⑤
Diesel Generator (KVA) (Optional)	13.8x1	⑥
Total Unfolded Footprint (L*W*H/m)	108*8(12.0)*0.9(3.1)	
Occupied Area of Whole System (m²)	1300 (108*12)	
Complete Unfolding Time (mins)	180	
Complete Folding Time (mins)	120	
Installation Persons	6	

① Container

Type of Container	40HQP (HQ Plus Height)
External Dimensions (L*W*H/mm)	12192*2438*3100
Container Weight (Tons)	8
Container Doors	Two Sides

② Solar Panel

Solar Module Type	Topcon/HJT
Max.Power (Pmax/Wp)	595
Max. Power Voltage (Vm / V)	44.64
Max. Power Current (Im / A)	13.33
Open Circuit Voltage (Voc / V)	52.58
Short Circuit Current (Isc / A)	13.99
Product Dimensions (mm)	2278*1134*30
Weight (Kgs)	31.8
Quantity of Solar Module (pcs)	264

③ Inverter / PCS

Inverter Type	Hybrid/ Off Grid PCS
Inverter Capacity (kW)	60/100
Max. PV Power (Pmax/Wp)	96000/150000
Nominal AC Output Power (W)	60000/100000
Maximum AC Output Power (W)	66000/110000
Nominal AC Voltage (V)	3L/N/PE 220/380V, 230/400V
AC Grid Frequency Range (Hz)	50/45-55, 60/55-65
Maximum Output Current (A)	95.7/152
Dimensions (WxHxD/mm)	606*927*314/500*670*270
Weight (kg)	97.5/60
Operating Temperature Range (℃)	-40~60℃, >45℃ derating
Communication	RS485/RS232/CAN/WIFI/LAN

④ Bracket (1/2)

Material of Bracket	Carbon Steel Q235B
Single Bracket Dimension (LxWxD/mm)	(3552+3552)*2348*30
Angle of Unfolding Bracket (°)	±15 (10~20)
Length of Unfolding Bracket (m)	104
Occupied Area of Unfolding Bracket (m²)	832(104*8)
Quantity of Bracket (Page)	88

⑤ Energy Storage System

Battery Type	LFP / HV
Rated Capacity (kWh)	229 (215~258)
Nominal Dis-charge Power (kW)	100
Battery Voltage Range (Vdc)	716~908
Nominal Current (A)	160 (0.5C)
Dimensions (WxHxD/mm)	910*2200*950
Weight (Kgs)	2500
Communication	CAN/RS485
Operating Temperature Range (℃)	-30℃~+45℃, >45℃ Derating
Quantity of Battery (set)	2

⑥ Diesel Generator(Optional)

Module Type	KDE16EA3
Rated Output (KVA)	13.8
Max. Output (KVA)	15
Rated Frequency (Hz)	50
Rated Voltage (V)	203/400
Rated Current (A)	47.8
Overall dimension (L×W×H/mm)	930*660*910
Weight (Kgs)	230
Quantity of DG (set)	1

Power SPV —Solar PV Container (Wheel Type)

SC08GP-M-20K-W

System Product Model	SC08GP-M-20K-W	
Total Weight (Tons)	5	
Type of Container	8GPF x1	①
Solar Array Capacity (Pmax / kWp)	23.94 (20~26)	
Type of Solar Module (W)	630 x38 (550~650)	②
String Inverter (kW)	20 x1	③
Bracket (Number of Module per Sheet)	1 x38	④
Total Unfolded Footprint (L*W*H/m)	59(29.5m*2rows)*2.26(2.9)*0.5(2.2)	
Occupied Area of Whole System (m²)	134 (29.5*2.26*2rows)	
Complete Unfolding Time (mins)	50	
Complete Folding Time (mins)	40	
Installation Persons	4	

① Container

Type of Container	8GPF
External Dimensions (L*W*H/mm)	2900*2200*2200
Container Weight (Tons)	1.6
Container Doors	Two Sides

② Solar Panel

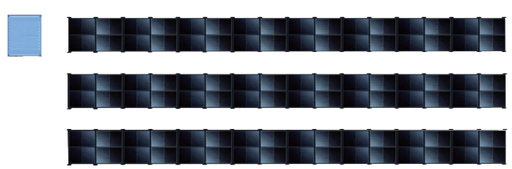
Solar Module Type	Topcon/HJT
Max.Power (Pmax/Wp)	630 (550~650)
Max. Power Voltage (Vm / V)	38.03
Max. Power Current (Im / A)	16.57
Open Circuit Voltage (Voc / V)	45.30
Short Circuit Current (Isc / A)	17.37
Product Dimensions (mm)	2172*1303*35
Weight (Kgs)	35.3
Quantity of Solar Modules (pcs)	38 (38~40)

③ Inverter

Inverter Type	On Grid
Inverter Capacity (kW)	20
Max. PV Power (Pmax/Wp)	26000
Nominal AC Output Power (W)	20000
Maximum AC Output Power (W)	22000
Nominal AC Voltage (V)	3L/N/PE 220/380V, 230/400V
AC Grid Frequency Range (Hz)	50 / 60 (Optional)
Maximum Output Current (A)	33.3/31.9
Dimensions (WxHxD/mm)	330*508*206
Weight (kg)	20.8
Operating Temperature Range (℃)	-25~65℃, >45℃ derating
Communication	RS485/RS232/Wifi/LAN

④ Bracket

Material of Bracket	Carbon Steel Q235B
Single Bracket Dimension (LxWxD/mm)	2252*1383*35
Angle of Unfolding Bracket (°)	±15
Length of Unfolding Bracket (m)	27.5*2rows
Occupied Area of Unfolding Bracket (m²)	125 (27.5*2.26*2rows)
Quantity of Bracket (Page)	38 (38~40)



SC10GP-M-40K-W

System Product Model	SC10GP-M-40K-W	
Total Weight (Tons)	8.5	
Type of Container	10GP x1	①
Solar Array Capacity (Pmax / kWp)	46.08 (46~50)	
Type of Solar Module (W)	480 x96 (480~520)	②
String Inverter (kW)	40 x1	③
Bracket (Number of Module per Sheet)	2 x48	④
Total Unfolded Footprint (L*W*H/m)	103(34m*3rows)*2.38(3.0)*0.8(2.6)	
Occupied Area of Whole System (m²)	243 (34*2.38*3rows)	
Complete Unfolding Time (mins)	70	
Complete Folding Time (mins)	50	
Installation Persons	4	

① Container

Type of Container	10GP
External Dimensions (L*W*H/mm)	2991*2438*2591
Container Weight (Tons)	2.2
Container Doors	Three Sides

② Solar Panel

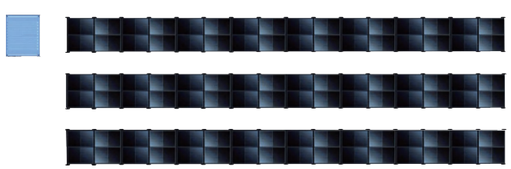
Solar Module Type	Topcon/HJT
Max.Power (Pmax/Wp)	480 (480~520)
Max. Power Voltage (Vm / V)	35.69
Max. Power Current (Im / A)	13.45
Open Circuit Voltage (Voc / V)	43.36
Short Circuit Current (Isc / A)	14.16
Product Dimensions (mm)	1910*1134*30
Weight (Kgs)	26
Quantity of Solar Modules (pcs)	96 (96~100)

③ Inverter

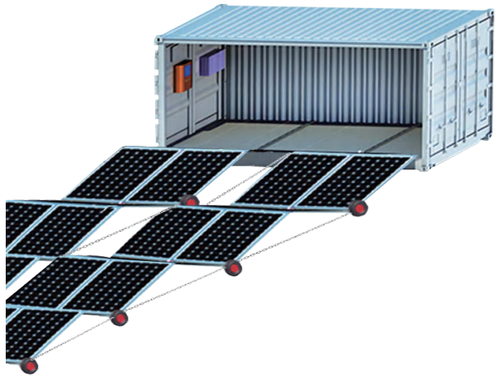
Inverter Type	On Grid
Inverter Capacity (kW)	40
Max. PV Power (Pmax/Wp)	52000
Nominal AC Output Power (W)	40000
Maximum AC Output Power (W)	44000
Nominal AC Voltage (V)	3L/N/PE 220/380V, 230/400V
AC Grid Frequency Range (Hz)	50 / 60 (Optional)
Maximum Output Current (A)	66.7/63.8
Dimensions (WxHxD/mm)	647.5*537*303.5
Weight (kg)	44.5
Operating Temperature Range (℃)	-25~65℃, >45℃ derating
Communication	RS485/RS232/Wifi/LAN

④ Bracket

Material of Bracket	Carbon Steel Q235B
Single Bracket Dimension (LxWxD/mm)	2378*1980*30
Angle of Unfolding Bracket (°)	±15
Length of Unfolding Bracket (m)	32*3rows
Occupied Area of Unfolding Bracket (m²)	229 (32*2.38*3rows)
Quantity of Bracket (Page)	48 (48~50)



SC20GP-M-80K-W



System Product Model	SC20GP-M-80K-W	
Total Weight (Tons)	13	
Type of Container	20GP x1	①
Solar Array Capacity (Pmax / kWp)	92.16 (90~105)	
Type of Solar Module (W)	480 x192 (480~520)	②
String Inverter (kW)	80 x1	③
Bracket (Number of Module per Sheet)	2 x96	④
Total Unfolded Footprint (L*W*H/m)	103(34m*6rows)*2.38(3.0)*0.8(2.6)	
Occupied Area of Whole System (m²)	486 (34*2.38*6rows)	
Complete Unfolding Time (mins)	110	
Complete Folding Time (mins)	70	
Installation Persons	4	

① Container

Type of Container	20GP
External Dimensions (L*W*H/mm)	6058*2438*2591
Container Weight (Tons)	3.2
Container Doors	Two Sides

② Solar Panel

Solar Module Type	Topcon/HJT
Max.Power (Pmax/Wp)	480 (480~520)
Max. Power Voltage (Vm / V)	35.69
Max. Power Current (Im / A)	13.45
Open Circuit Voltage (Voc / V)	43.36
Short Circuit Current (Isc / A)	14.16
Product Dimensions (mm)	1910*1134*30
Weight (Kgs)	26
Quantity of Solar Modules (pcs)	192 (192~200)

③ Inverter

Inverter Type	On Grid
Inverter Capacity (kW)	80
Max. PV Power (Pmax/Wp)	104000
Nominal AC Output Power (W)	80000
Maximum AC Output Power (W)	88000
Nominal AC Voltage (V)	3L/N/PE 220/380V, 230/400V
AC Grid Frequency Range (Hz)	50 / 60 (Optional)
Maximum Output Current (A)	133.3/127.5
Dimensions (WxHxD/mm)	838*568*324
Weight (kg)	81
Operating Temperature Range (℃)	-25~65℃, >45℃ derating
Communication	RS485/RS232/Wifi/LAN

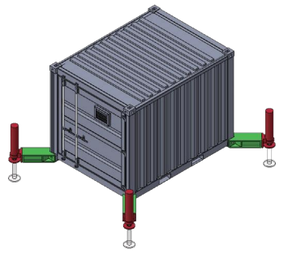
④ Bracket

Material of Bracket	Carbon Steel Q235B
Single Bracket Dimension (LxWxD/mm)	2378*1980*30
Angle of Unfolding Bracket (°)	±15
Length of Unfolding Bracket (m)	32*6rows
Occupied Area of Unfolding Bracket (m²)	457 (32*2.38*6rows)
Quantity of Bracket (Page)	96 (96~100)

Supporting Facilities

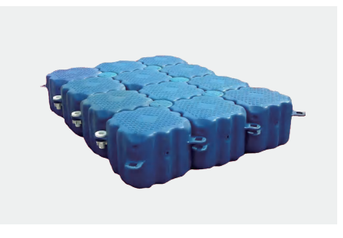
Trailer

Hydraulic Support



Diesel Generator

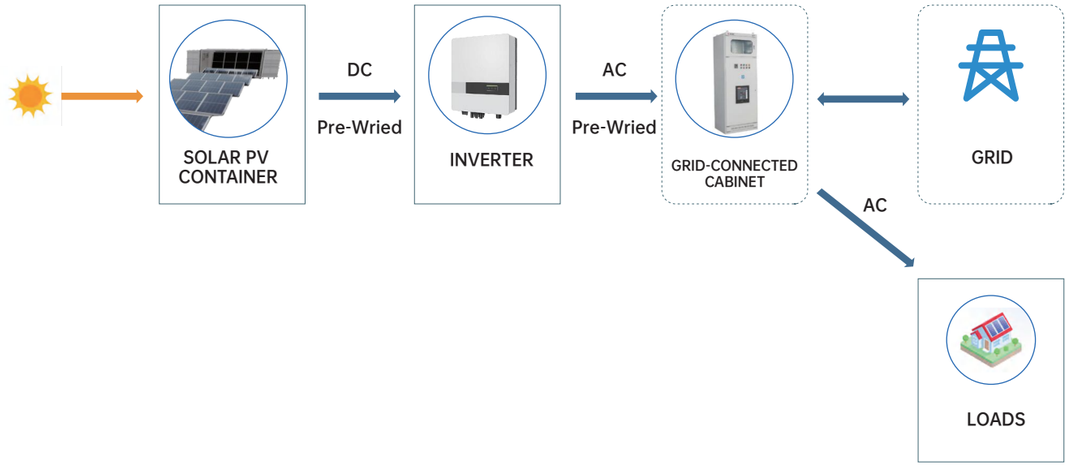
Buoy System



System Solutions

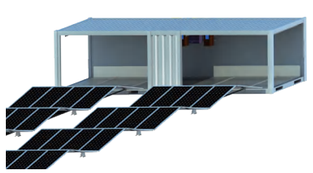
Solar On-grid System

The direct current generated by the solar module is converted into alternating current by the inverter, which is then supplied to the load and connected to the grid. In this way, while meeting the household load, excess electricity can also be sold into the grid.



Applicable Product Series: Solar PV Container

SC20HQ-M-100K

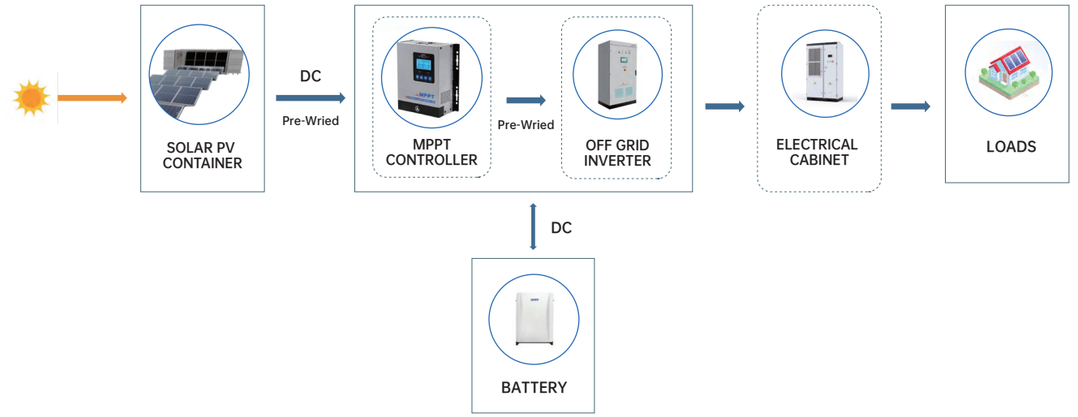


SC40HQ-M-200K

- High Cost Performance
- Expandable
- Transportability
- Quick Installation
- Customization

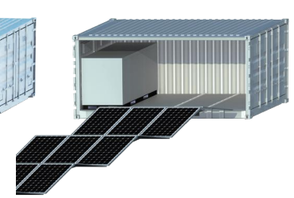
Solar Off-grid System

Independent systems that do not depend on the grid power. As long as the sun is satisfied, the off-grid system can work and provide electricity independently.



Applicable Product Series: Solar PV Container / Solar ESS Container

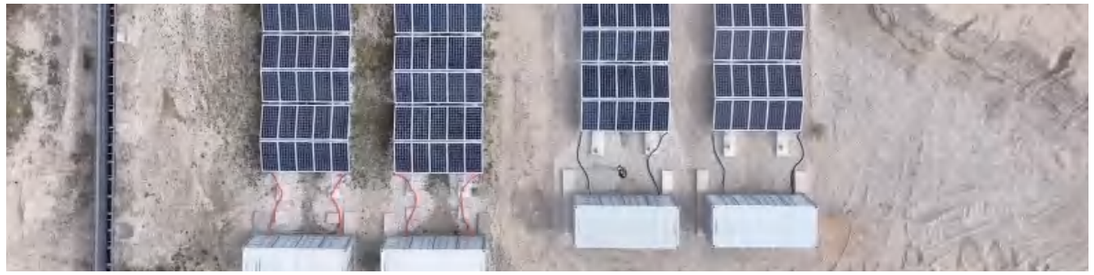
SC20HQ-M-100K



SC20HQ-M-75K215

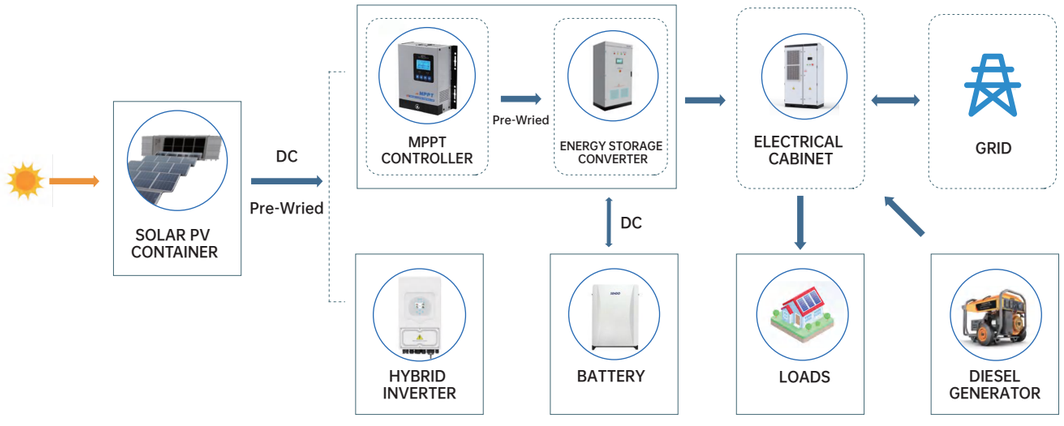
- High Cost Performance
- Expandable
- Transportability
- Quick Installation
- Customization

System Solutions



Solar Microgrid System / Solar Hybrid System

Microgrid system is an autonomous system capable of self-control, protection and management, which can not only be connected to the external power grid, but also operate in isolation, which solves the problem of distributed power grid to a great extent, promotes the large-scale access of distributed power and renewable energy, and is a smart grid system that provides efficient supply of various energy forms for load and realizes the active distribution network.



Applicable Product Series: Solar ESS Container

Application of SC40HQ-M-100K

Application of SC08GP-M-18K20

The system mainly includes:

Solar power container

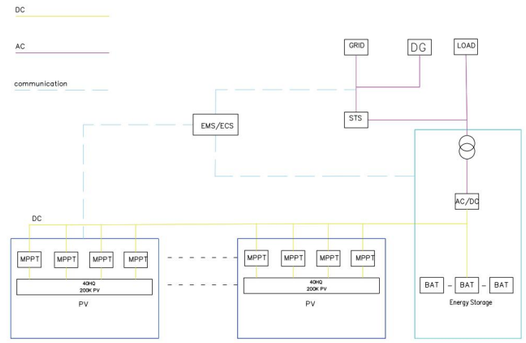
MPPT+PCS / Hybrid inverter

PCS

Battery

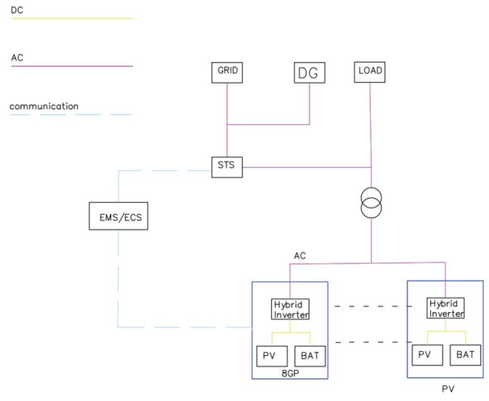
Diesel generator

Electrical System Type



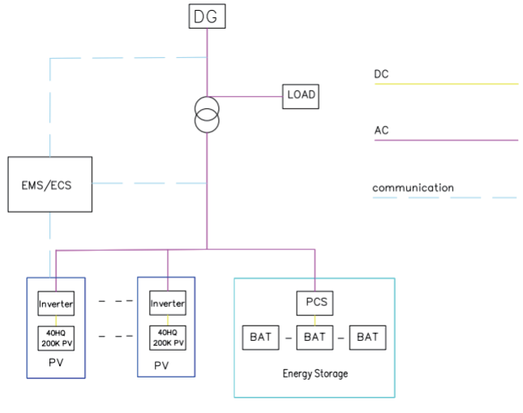
DCC

Suitable for long-term operation, energy storage needs are large



HYB

The application load is small, the energy storage demand is not high



ACC

Suitable for large power during the day, small power consumption at night, energy storage demand is high

① Transportation by Truck

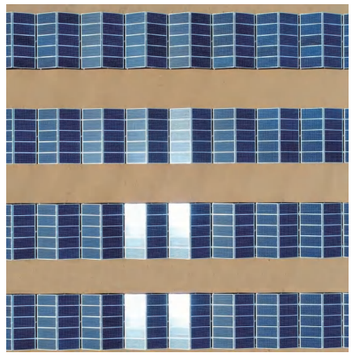
② Hoisting in Position

③ Open & Assembly

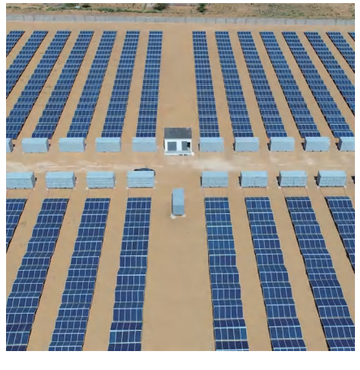
④ Unfold Solar PV Array

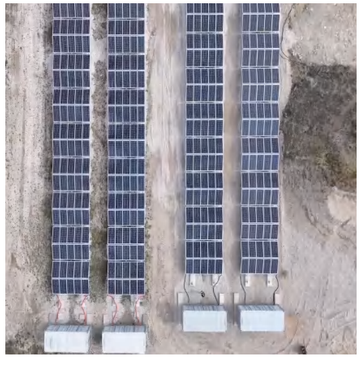
⑤ Cable Installation

⑥ Final Operation





Project Cases