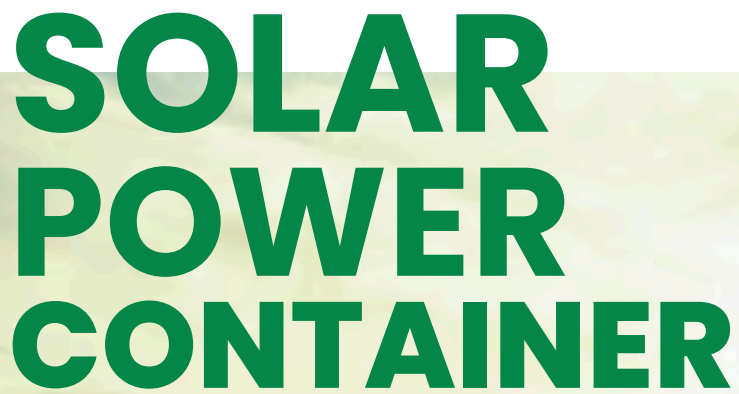
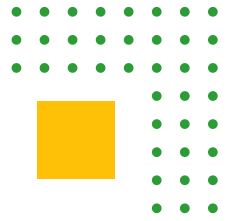




Catalog Type
Technical Features
System Solutions

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

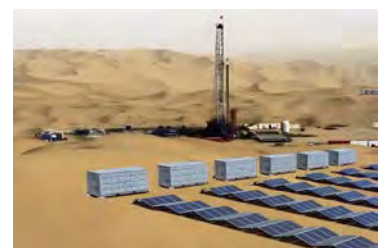
It mainly includes: mining; military affairs; infrastructure construction; ports of entry; businesses and communities; disaster relief and other six main use scenarios. Some typical use scenarios include: military bases, troops stationed, oil fields and mines, communication base stations, temporary camps,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

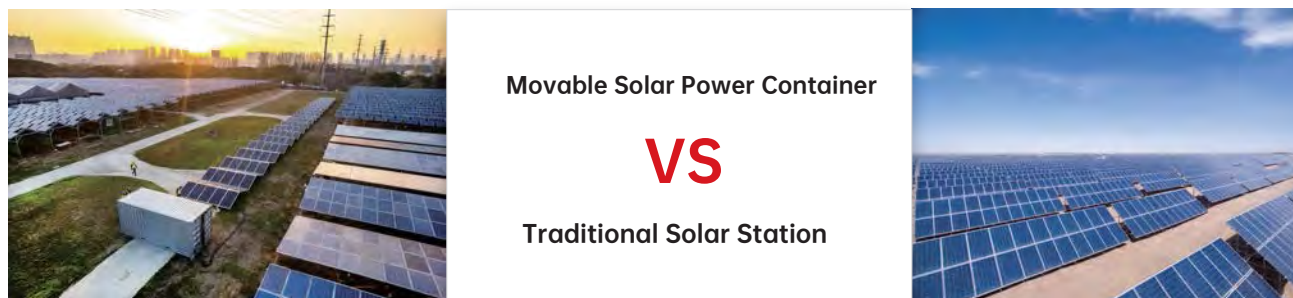


Re-build After Disaster Or War



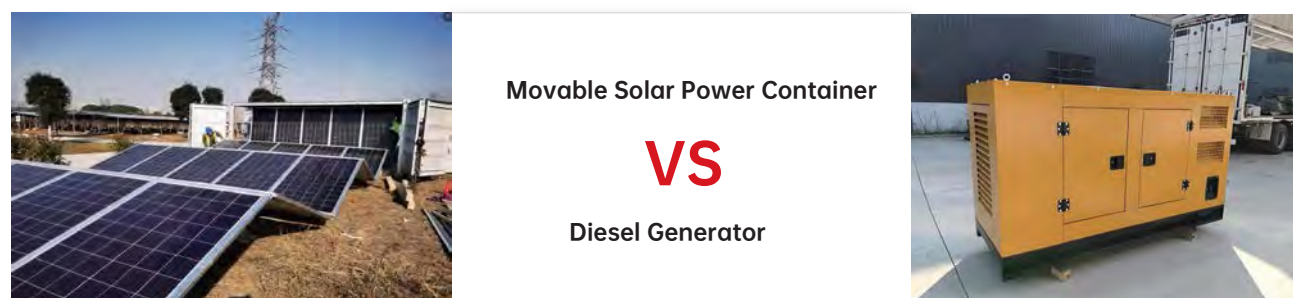
Telecom Tower Station

● Comparative Project Style Analysis :



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)



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
Rol(Return On Investment)	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

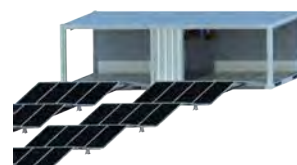


SC10GP-M-40K



SC20GP-M-80K

SC20HQ-M-100K



SC40GP-M-160K

SC40HQ-M-200K

■ Power SES — Solar ESS Container (Rail Type)

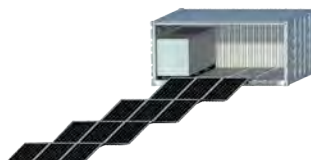
Suitable for large and medium-sized hybrid or off grid solar power stations, long-term stable and reliable scenarios



SC08GP-M-18K20

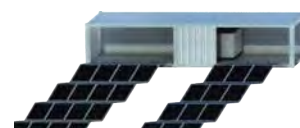


SC10GP-M-30K40



SC20GP-M-60K215

SC20HQ-M-75K215



SC40GP-M-140K215

SC40HQ-M-150K430

■ Power SPV —Solar PV Container (Wheel Type)

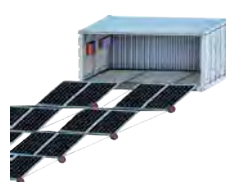
Suitable for short-term quick installation scenarios



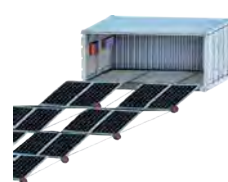
SC08GP-M-20K-WF
SC08GP-M-18K20-WF



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



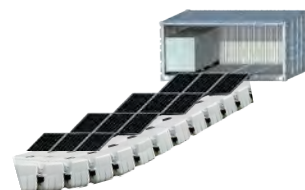
SC08GP-M-20K-F
SC08GP-M-18K20-F



SC10GP-M-40K-F
SC10GP-M-30K40-F



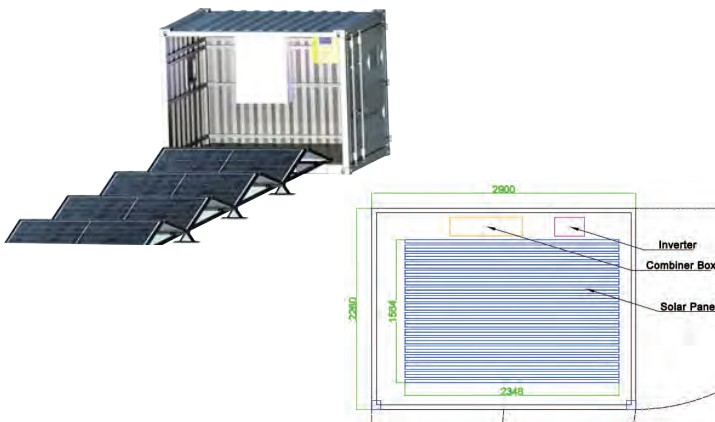
SC20GP-M-80K-F
SC20GP-M-60K215-F



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

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 (°C)	-25~60°C, >45°C derating
Communication	RS485/RS232/Wifi/LAN

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

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 (m ²)	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

③ Inverter

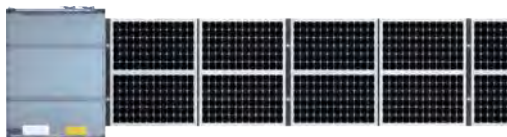
Inverter Type	On Grid
Inverter Capacity (kW)	40
Max. PV Power (Pmax/Wp)	52000
Nominal AC Output Power (W)	40000
Maximum AC Output Power (W)	44000
Nominal AC Voltage (V)	3L/N/PE 220/380V, 230/400V
AC Grid Frequency Range (Hz)	50/45-55, 60/55-65
Maximum Output Current (A)	66.7/63.8
Dimensions (WxHxD/mm)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

② Solar Panel

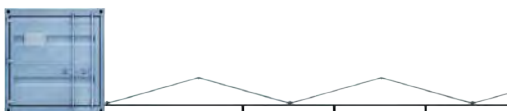
Solar Module Type	Topcon/HJT
Max.Power (Pmax/Wp)	480
Max. Power Voltage (Vm / V)	35.38
Max. Power Current (Im / A)	13.57
Open Circuit Voltage (Voc / V)	42.71
Short Circuit Current (Isc / A)	14.31
Product Dimensions (mm)	1902*1134*30
Weight (Kgs)	25.5
Quantity of Solar Module (pcs)	88

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 (m ²)	211 (88*2.4)
Quantity of Bracket (Page)	44



Top View

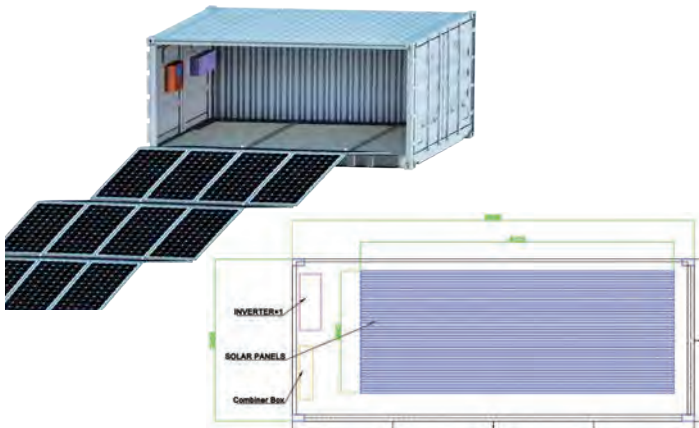


Side View



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*4.7(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

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 (°C)	-25~60°C, >45°C derating
Communication	RS485/RS232/Wifi/LAN

② Solar Panel

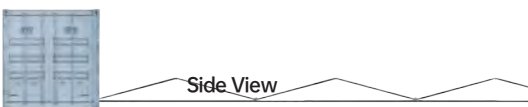
Solar Module Type	Topcon/HJT
Max.Power (Pmax/Wp)	480
Max. Power Voltage (Vm / V)	35.38
Max. Power Current (Im / A)	13.57
Open Circuit Voltage (Voc / V)	42.71
Short Circuit Current (Isc / A)	14.31
Product Dimensions (mm)	1902*1134*30
Weight (Kgs)	25.5
Quantity of Solar Module (pcs)	176

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

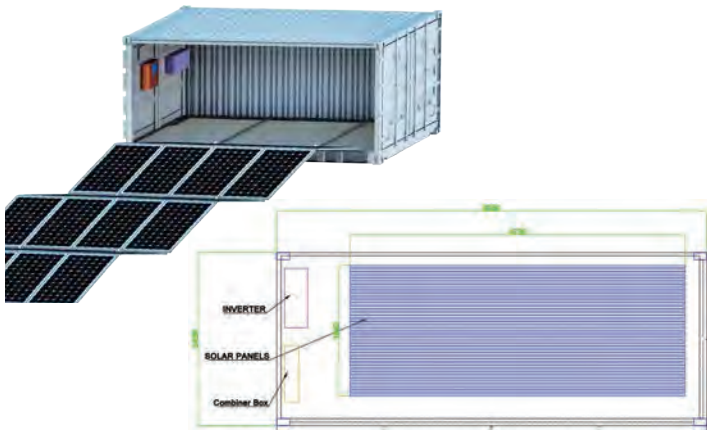


Side View



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

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)	824x516x312.7
Weight (kg)	81
Operating Temperature Range (°C)	-25~60°C, >45°C derating
Communication	RS485/RS232/Wifi/LAN

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

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

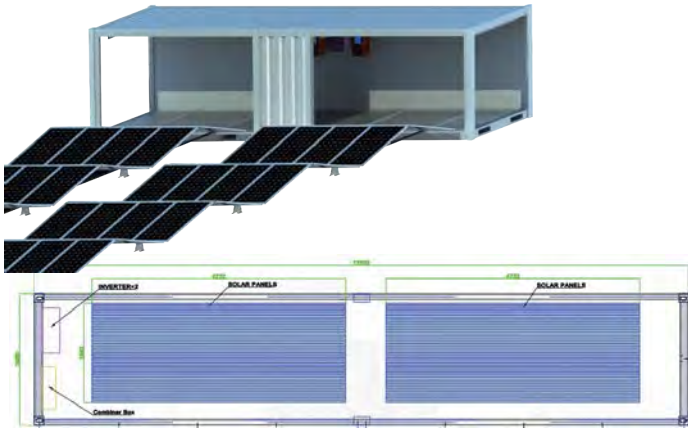


Side View



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

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)	824x516x312.7
Weight (kg)	81
Operating Temperature Range (°C)	-25~60°C, >45°C derating
Communication	RS485/RS232/Wifi/LAN

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

④ Bracket (1/2)

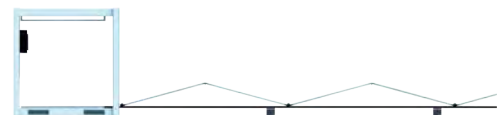
Material of Bracket	Carbon Steel Q235B
Single Bracket Dimension (LxWxD/mm)	4722*1972*30
Angle of Unfolding Bracket (°)	±15 (10~20)
Length of Unfolding Bracket (m)	88
Occupied Area of Unfolding Bracket (m²)	924(88*10.5)
Quantity of Bracket (Page)	88



Top View

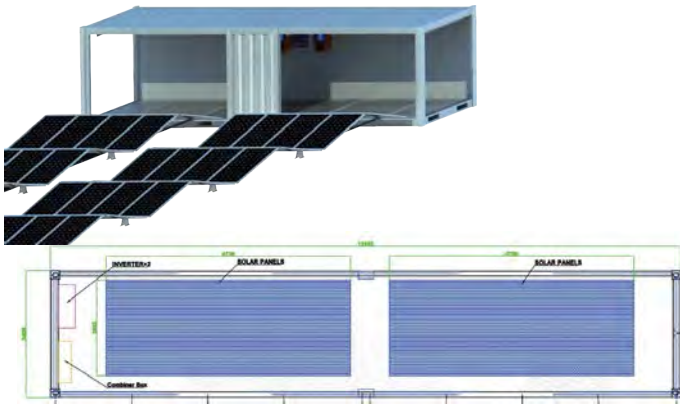


Front View



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

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 (°C)	-25~60°C, >45°C derating
Communication	RS485/RS232/Wifi/LAN

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

④ Bracket (1/2)

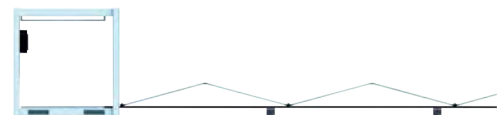
Material of Bracket	Carbon Steel Q235B
Single Bracket Dimension (LxWxD/mm)	4726*2348*30
Angle of Unfolding Bracket (°)	±15 (10~20)
Length of Unfolding Bracket (m)	104
Occupied Area of Unfolding Bracket (m²)	1092 (104*10.5)
Quantity of Bracket (Page)	88



Top View



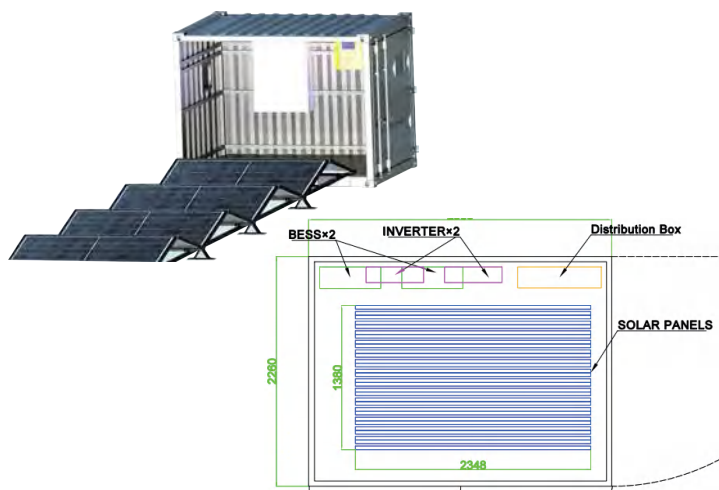
Front View



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 (°C)	-40~60°C, >45°C 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

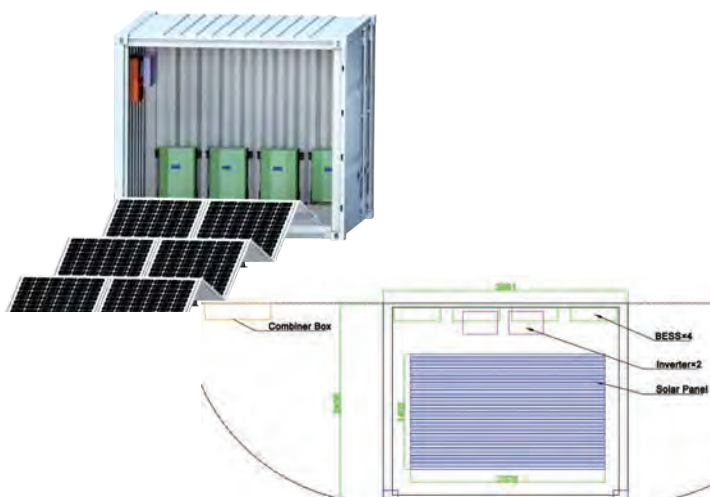
⑤ Energy Storage System

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 (°C)	0°C~+45°C
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 (LxWxH/mm)	720*492*650
Weight (Kgs)	95
Quantity of DG (set)	1

SC10GP-M-30K40



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 (°C)	-40~60°C, >45°C derating
Communication	RS485/RS232/CAN/WIFI/LAN

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

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

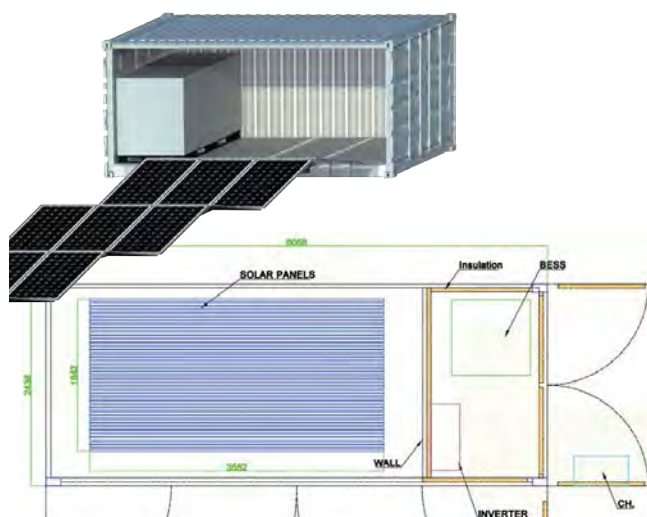
⑤ Energy Storage System

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 (°C)	0°C~+45°C
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 (LxWxH/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 (°C)	-40~60°C, >45°C 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 (°C)	-30°C~+45°C, >45°C Derating
Quantity of Battery (set)	1

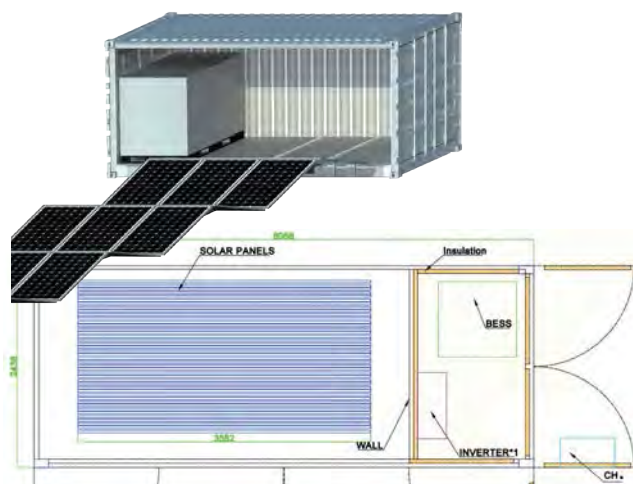
⑤ Bracket

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 (LxWxH/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 (°C)	-40~60°C, >45°C 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 (°C)	-30°C~+45°C, >45°C Derating
Quantity of Battery (set)	1

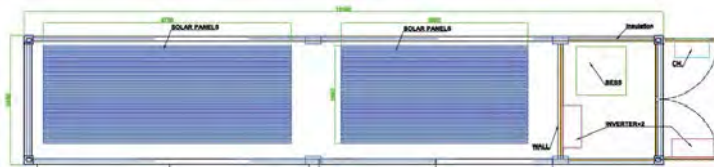
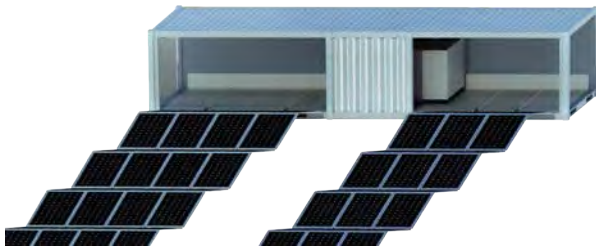
⑤ Bracket

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 (LxWxH/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 (°C)	-40~60°C, >45°C 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

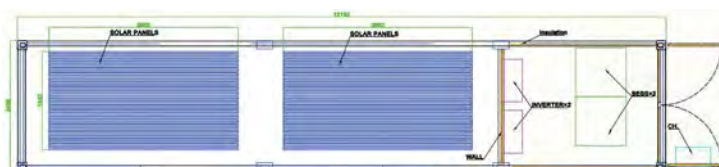
⑤ Energy Storage System

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 (°C)	-30°C~+45°C, >45°C 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 (LxWxH/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	40HQ (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 (°C)	-40~60°C, >45°C 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 (°C)	30°C~+45°C, >45°C 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 (LxWxH/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

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 (°C)	-25~65°C, >45°C derating
Communication	RS485/RS232/Wifi/LAN

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)

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

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 (°C)	-25~65°C, >45°C derating
Communication	RS485/RS232/Wifi/LAN

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)

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

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 (°C)	-25~65°C, >45°C derating
Communication	RS485/RS232/Wifi/LAN

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)

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)

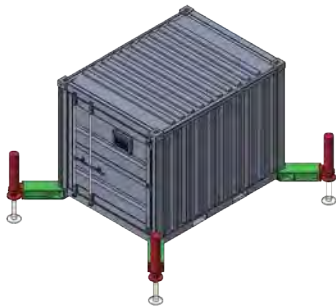


Supporting Facilities

Trailer



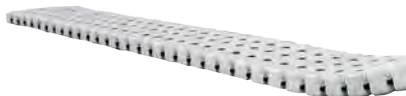
Hydraulic Support



Diesel Generator



Buoy System

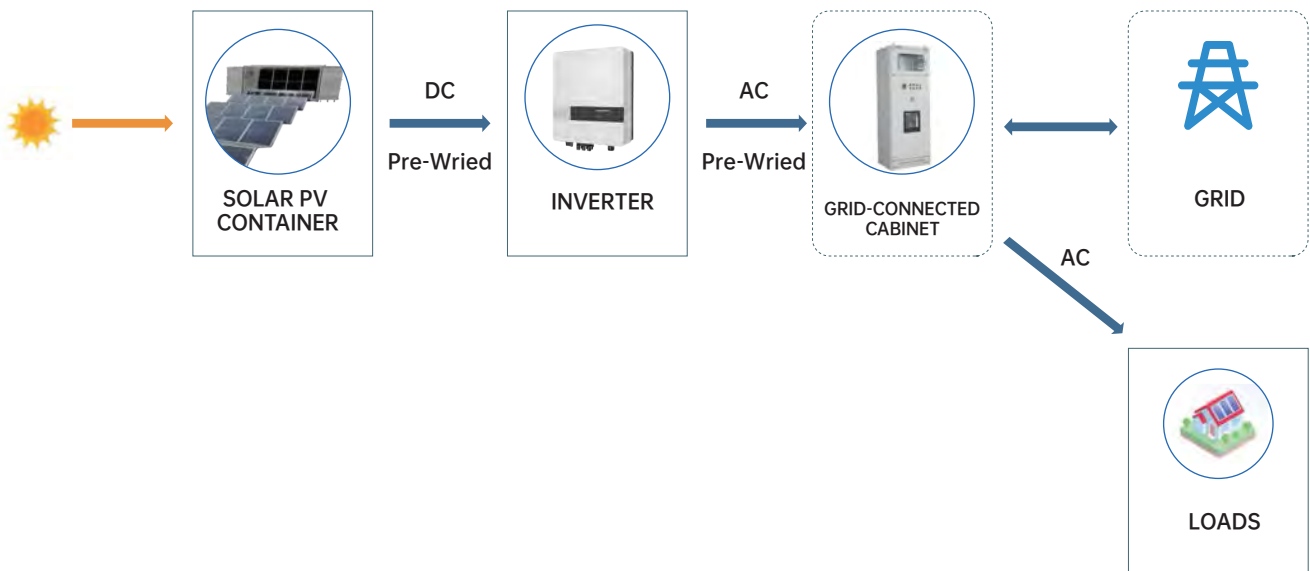


System Solutions



Solar On-grid System

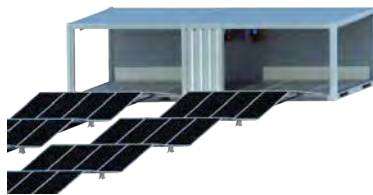
The direct current generated by the solar module is converted into alternating current by the inverter, which is then supplied to the load and connected to the grid. In this way, while meeting the household load, excess electricity can also be sold into the grid.



Applicable Product Series: Solar PV Container



SC20HQ-M-100K



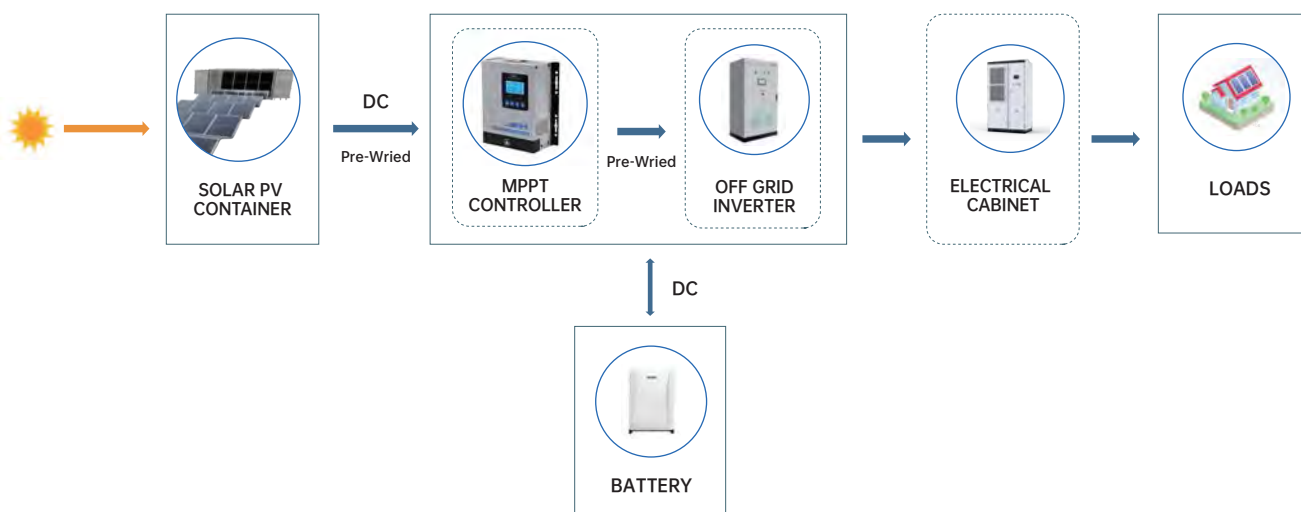
SC40HQ-M-200K

- 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

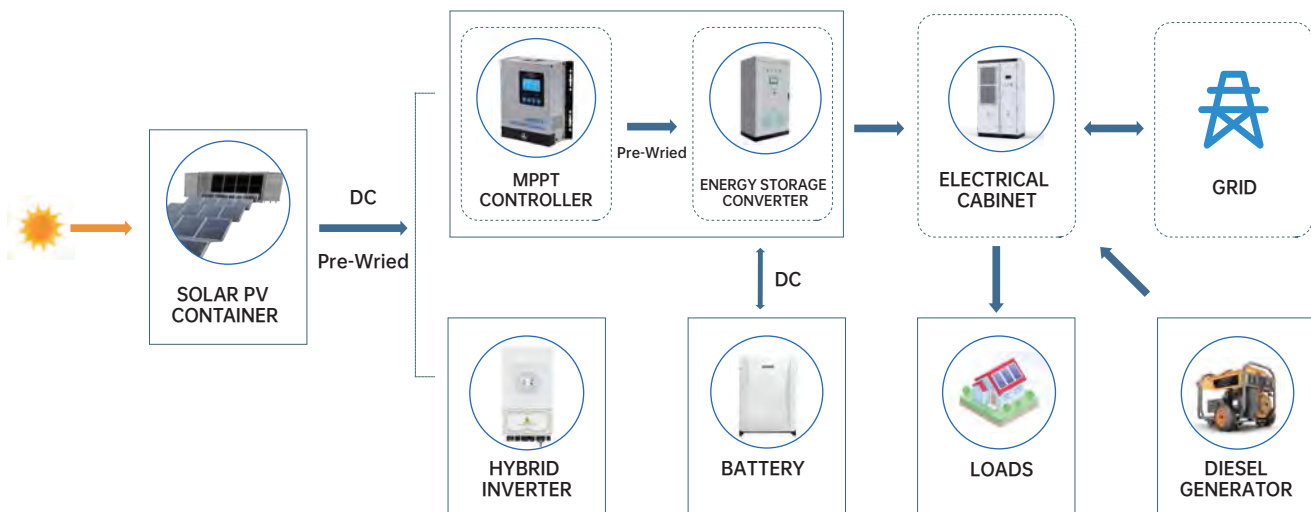
- High Cost Performance
- Expandable
- Transportability
- Quick Installation
- Customization

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

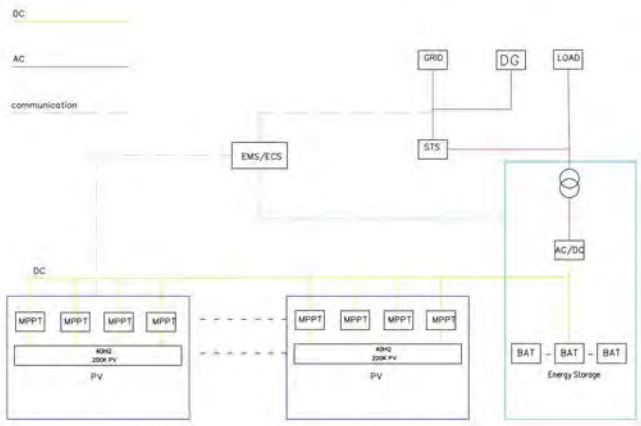


Application of SC08GP-M-18K20

The system mainly includes:

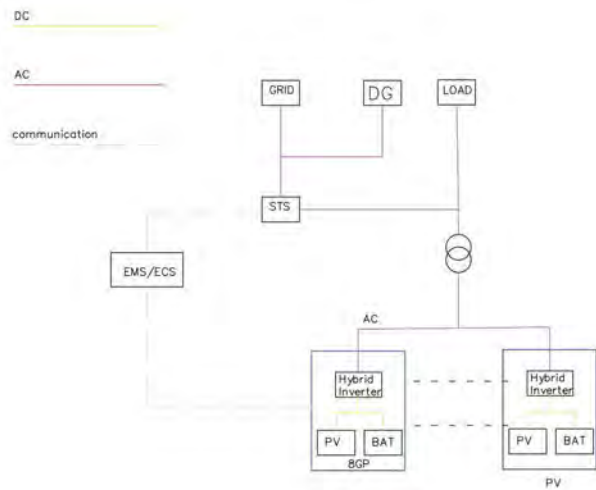
- Solar power container
- MPPT+PCS / Hybrid inverter
- PCS
- Battery
- Diesel generator

Electrical System Type



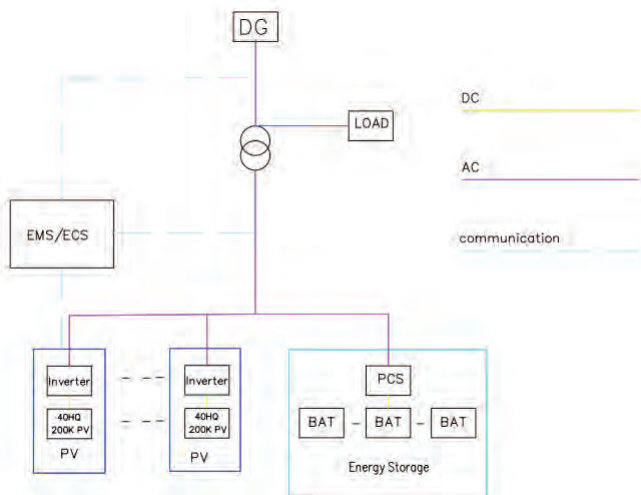
DCC

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

Project Cases

Solar PV Container



① Transportation by Truck



② Hoisting in Position



③ Open & Assembly



④ Unfold Solar PV Array



⑤ Cable Installation



⑥ Final Operation

Project Cases

Solar ESS Container



Project Cases



Project Cases





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