SUNMASTER

Battery Energy Stroage System



Lithium battery padk Stadked, Wal mounting and Rackmounting has the advantages of high safety performance, longifespan, wide charge voltage range, simple installation, and standard modular design.

Lithium battery pack Stacked, Wallmountng and Rack mounting can be widely used in household energy storage, industrialand commercial energy storage and other fields.

More
+Power
Less Expense

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CATALOGUE

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Solar Storage Inverter

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Lithium iron phosphate cell 3.2V 100Ah



Product Features:

- Long cycle life,100%DOD cycle life up to 4000 times
- High energy density, actual energy density is more than 160Wh/kg
- Low internal resistance,ACIR<0.35mn
- DC withstand voltage up to 3500V
- Pulse discharge8C (10s)

Model Presentation

Model: WLD50160120/100Ah	Size: 50*160*120mm	Weight:1.9±0.20kg
Internal res:0.3±0.05m	Rated capacity:100Ah	Rated voltage:3.2V
Energy density:>16owh/kg	Charge end voltage:3.65V	Discharge end voltage:2.5V
Max. charge rate:1.0C	Max.discharge rate:1.0C	

Lithium iron phosphate cell 3.2V 280Ah



Product Features:

- Long cycle life,100%DOD cycle life up to 4000 times
- High energy density, actual energy density is more than 160Wh/kg
- Low internal resistance,ACIR<0.35mn
- DC withstand voltage up to 3500V
- Pulse discharge8C (10s)

Model Presentation

Model: WLD50160120/280Ah	Size: 54*174*207mm	Weight:4.1±0.20kg
Internal res:0.3±0.05m	Rated capacity:280Ah	Rated voltage:3.2V
Energy density:>16owh/kg	Charge end voltage:3.65V	Discharge end voltage:2.5V
Max. charge rate:1.0C	Max.discharge rate:1.0C	

Lithium iron phosphate cell 3.2V 200Ah



Product Features:

- Long cycle life,100%DOD cycle life up to 4000 times
- High energy density, actual energy density is more than 160Wh/kg
- Low internal resistance,ACIR<0.35mn
- DC withstand voltage up to 3500V
- Pulse discharge8C (10s)

Model Presentation

Model: WLD50160120/200Ah	Size: 100*160*120mm	Weight:3.7±0.20kg
Internal res:0.3±0.05m	Rated capacity:200Ah	Rated voltage:3.2V
Energy density:>16owh/kg	Charge end voltage:3.65V	Discharge end voltage:2.5V
Max. charge rate:1.0C	Max.discharge rate:1.0C	

Lithium iron phosphate cell 3.2V 314Ah



Product Features:

- Long cycle life,100%DOD cycle life up to 4000 times
- High energy density, actual energy density is more than 160Wh/kg
- Low internal resistance,ACIR<0.35mn
- DC withstand voltage up to 3500V
- Pulse discharge8C (10s)

Model Presentation

Model: WLD50160120/314Ah	Size: 72*174*207mm	Weight:5.6±0.20kg
Internal res:0.3±0.05m	Rated capacity:314Ah	Rated voltage:3.2V
Energy density:>16owh/kg	Charge end voltage:3.65V	Discharge end voltage:2.5V
Max. charge rate:1.0C	Max.discharge rate:1.0C	

51.2V 100Ah 5120Wh

Model Presentation



Model:	0T48100
size:	520*550*140mm
DOD:	80%
Life cycle:	>6000
Charge Voltage:	56.8V
Discharge Voltage:	44.8V
Max Charge/Discharge Current:	50A
Design life:	>10years
Communication protocols:	CAN/RS-485
Safety Certificate:	CE, TUV,IEC62619, UN38.3, ROHS

51.2V 280Ah 14336Wh

Model Presentation



Model:	OR-14.3K
size:	483*800*234mm
DOD:	80%
Life cycle:	> 6000
Charge Voltage:	57.6V
Discharge Voltage:	46.4V
Max Charge/Discharge Current:	140A
Design life:	>10years
Communication protocols:	CAN, RS485
Communication	CANBUS/Modbus RTU/TCP/IP

51.2V 200Ah 10240Wh

Model Presentation



Model:	OT48200
size:	480*550*178mm
DOD:	80%
Life cycle:	>6000
Charge Voltage:	56.8V
Discharge Voltage:	44.8V
Max Charge/Discharge Current:	100A
Design life:	>10years
Communication protocols:	CAN/RS-485
Safety Certificate:	CE, TUV,IEC62619, UN38.3, ROHS

51.2V 314Ah 16077Wh

Model Presentation



Model:	OR-16K
size:	483*800*234mm
DOD:	80%
Life cycle:	> 6000
Charge Voltage:	57.6V
Discharge Voltage:	46.4V
Max Charge/Discharge Current:	150A
Design life:	>10years
Communication protocols:	CAN, RS485
Communication	CANBUS/Modbus RTU/TCP/IP



5kWh-30kWh

Battery Cell: 3.2V 100Ah

Each Module: 5.12kWh

Product Feature

Long life and safety
Vertical industry integration ensures more than 6500 cycles with 80% DoD. Safe Lithium iron phosphate battery cell.

Intelligent
Each battery with independent BMS system manages power output smartly and effectively.

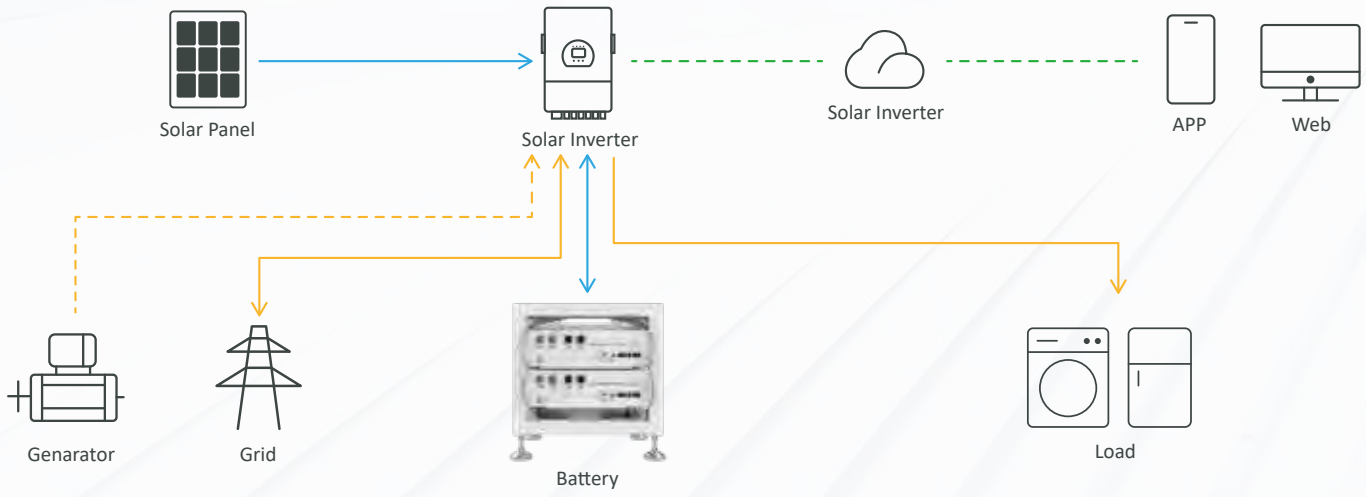
Modularization
Modular design gives the end customers the power of choice of capacity at Max 16pcs parallel connection.

Easy to install and use
Just plug and play to minimize the installation time and cost.

Compatiblity
Compatible with most of the available Hybrid inverters.

Safety Certification
IEC62619, CE-EMC, UN38.3, MSDS

Solar System Connection



Technical Parameter

Model	5kWh	10kWh	15kWh	20kWh	30kWh
Instalation Mode	Racked				
Battery Type	LifePO4(LFP)				
Module Energy (KWh)	5.12				
Module Nominal Votage (V)	51.2				
Module Capacity (Ah)	100				
System Model	OLR51-100	OLR51-200	OLR25-300	OLR30-400	OLR30-300
Battery Module Qty hSeries(Optional)	1	2	3	4	6
System Nominal Voltage (V)	51.2				
System Operating Voltage (V)	44.8-56.8				
System Nominal Capacity (KWh)	5.12	10.24	15.36	20.48	30.72
Usable Capacity (KWh)	4.10	8.19	12.29	16.38	24.58
Dimension (mm)	600*630*210	600*630*444	600*630*589	600*630*734	600*630*1024
Weight (Kg)	52	115	162	209	303
Recommend Charge/ Discharge Current (A)	50				
Communicaiton	CAN				
IP Rating of enclosure	IP20				
Maximum operation altitude	≤ 2000m				
Cycle Life	25±2°C , 0.5C/0.5C , 80%EOL ≥6500				
Monitoring Parameters	System volage,Curent,cel votage,cel temperature,modue temperature				
Soc	Inteligent algoritm				
Working Temperature	Charge Temperature 0ºC~60ºC;Discharge Temperature -20ºC~60ºC				
Storage Temperature	-20ºC~45ºC				

1.DCUsable Energy,test conditions:80%DOD,0.2Ccharge &discharge at 25°C.System usable energy may vary due to system configuration parameters.

2.The current is affected by temperature and SOC.

3.The warranty is due whichever reached first of warranty period or life cycle power.

Rack Mounted Type



10KWh-60KWh

Battery Cell:3.2V 200Ah

Each Module:10.24kWh



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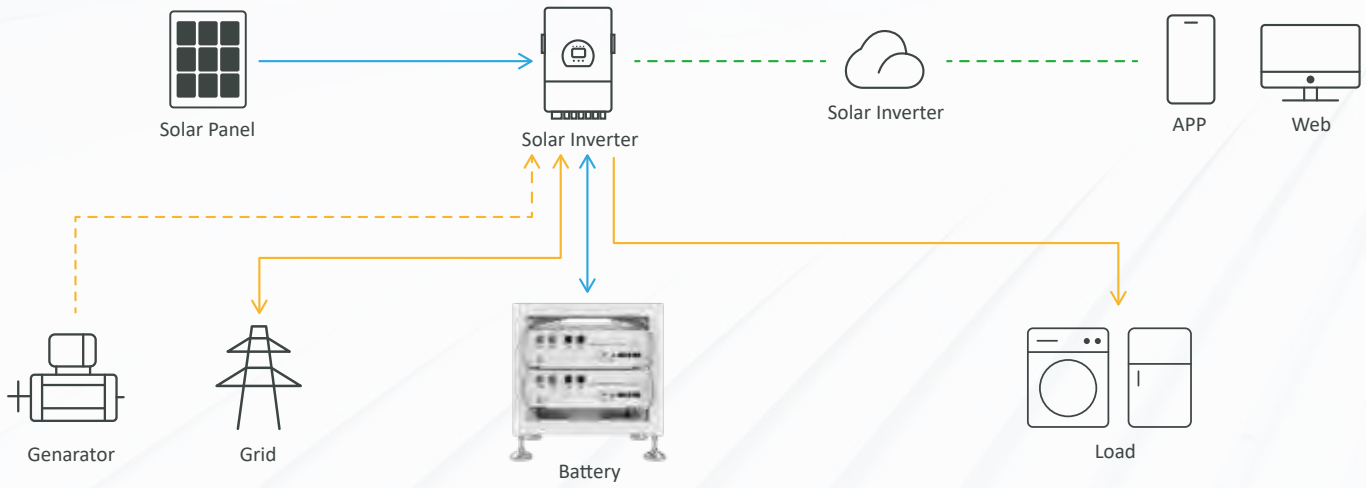
Compatiblity

Compatible with most of the available Hybrid inverters.

Safety Certification

IEC62619, CE-EMC, UN38.3, MSDS

Solar System Connection



Technical Parameter

Model	10kWh	20kWh	30kWh	40kWh	50kWh	60kWh
Instalation Mode	Racked					
Battery Type	LifePO4(LFP)					
Module Energy (KWh)	10.24					
Module Nominal Votage (V)	51.2					
Module Capacity (Ah)	200					
System Model	OLR51-200	OLR51-400	OLR51-600	OLR51-400	OLR51-500	OLR51-600
Battery Module Qty hSeries(Optional)	1	2	3	4	5	6
System Nominal Voltage (V)	51.2					
System Operating Voltage (V)	44.8-56.8					
System Nominal Capacity (KWh)	10.24	20.4	30.6	40.8	51.2	61.4
Usable Capacity (KWh)	8.19	16.32	24.48	32.64	40.96	49.12
Dimension (mm)	480*602*250	600*790*661	600*790*925	600*790*1189	600*790*1453	600*790*1717
Weight (Kg)	87	209	305	400	496	592
Recommend Charge/ Discharge Current (A)	80					
Communicaiton	CAN					
IP Rating of enclosure	IP20					
Maximum operation altitude	≤ 2000m					
Cycle Life	25±2°C , 0.5C/0.5C , 80%EOL ≥6500					
Monitoring Parameters	System volage,Curent,cel votage,cel temperature,modue temperature					
Soc	Inteligent algoritm					
Working Temperature	Charge Temperature 0ºC~60ºC;Discharge Temperature -20ºC~60ºC					
Storage Temperature	-20ºC~45ºC					

1.DCUsable Energy,test conditions:80%DOD,0.2Ccharge &discharge at 25°C.System usable energy may vary due to system configuration parameters.

2.The current is affected by temperature and SOC.

3.The warranty is due whichever reached first of warranty period or life cycle power.



10kWh-30kWh

Battery Cell: 3.2V 100Ah

Each Module:5.12kWh



Product Feature

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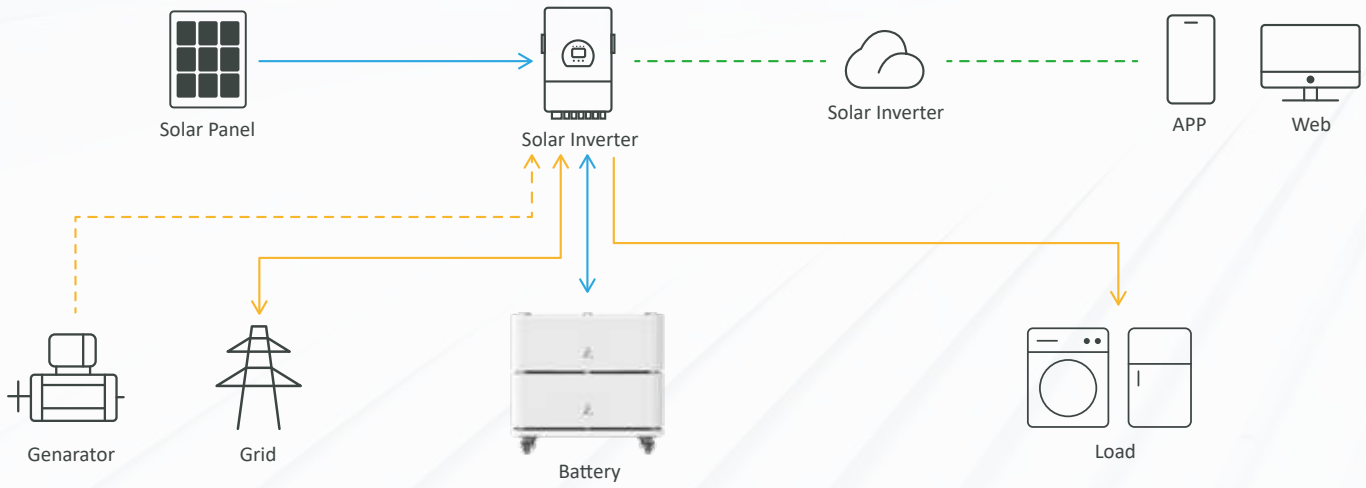
Compatiblity

Compatible with most of the available Hybrid inverters.

Safety Cert

IEC62619, CE-EMC, UN38.3, MSDS

Solar System Connection



Technical Parameter

Model	YE-5K10B	YE-5K15B	YE-5K20B	YE-5K25B	YE-5K30B
Inverter Type	5.5kW/51.2V AC hybrid inverter				
Rated Output Power	5.5kW				
Output Voltage	230VAC 50HZ				
Low DC Warning Voltage	47.7Vdc				
Low DC Cut-off Voltage	46.1Vdc				
Low DC Warning Return Voltage	47.8Vdc				
Total Charging Current(Grid+solar)	100A Max.				
Bulk Charging Voltage	58.6Vdc				
Float Charging Voltage	57.6Vdc				
LITHIUM IR ON BATTERY					
Normal Battery Modular	51.2V100Ah*2	51.2V100Ah*3	51.2V100Ah*4	51.2V100Ah*5	51.2V100Ah*6
Normal Capacity (25ºC, 0.2C)	10240Wh	15360Wh	20480Wh	25600Wh	30720Wh
Nominal Battery Voltage	51.2Vdc	51.2Vdc	51.2Vdc	51.2Vdc	51.2Vdc
Max.Charge Current	100A 1Sec				
Max.Discharge Current	100A				
Operation Voltage Range	42Vdc ~ 54.75Vdc				
Life of cycle	10000 times 80% DOD 25°C				
Operation Temperature	-20°C~60°C				
AC INPUT					
Nominal Input Voltage	230Vac Settable: 208/220/230/240 Vac				
Input voltage range	90-280V				
Frequency Range	40~70Hz, Default				
Main topology	L + N + PE				
Minimum input voltage	90Vac				
Max. AC Input Voltage	280Vac				
Nominal Current (RMS)	22.7A				
Max Current (RMS)	40A Max.				
SOLAR INPUT					
Nominal PV Voltage	360Vdc				
PV Array MPPT Voltage Range	120Vdc~450Vdc				
Max. PV Array Open Circuit Volta	500Vdc				
Solar Charging Current	80A Max.				
PRODUCTS SIZE (mm)	500*461*523	500*461*686	500*461*850	500*461*1013	500*461*1176
WEIGHT (KG)	115	165	215	265	315
PROTECTION					
Protection	Overcharge protection 、 Overdischarge protection 、 Overcurrent protection、 Shortcircuit protection 、 Overtemperature protection				
AMBIENT					
Noise(dB)	< 30°C < 40dB (1 meter)				
Working Temperature	Charge Temperature 0ºC~60ºC;Discharge Temperature -20ºC~60ºC				



20KWh-60KWh

Battery Cell: 3.2V 200Ah

Each Module: 10.24kWh

Product Feature

Long life and safety

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Intelligent

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Modularization

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Easy to install and use

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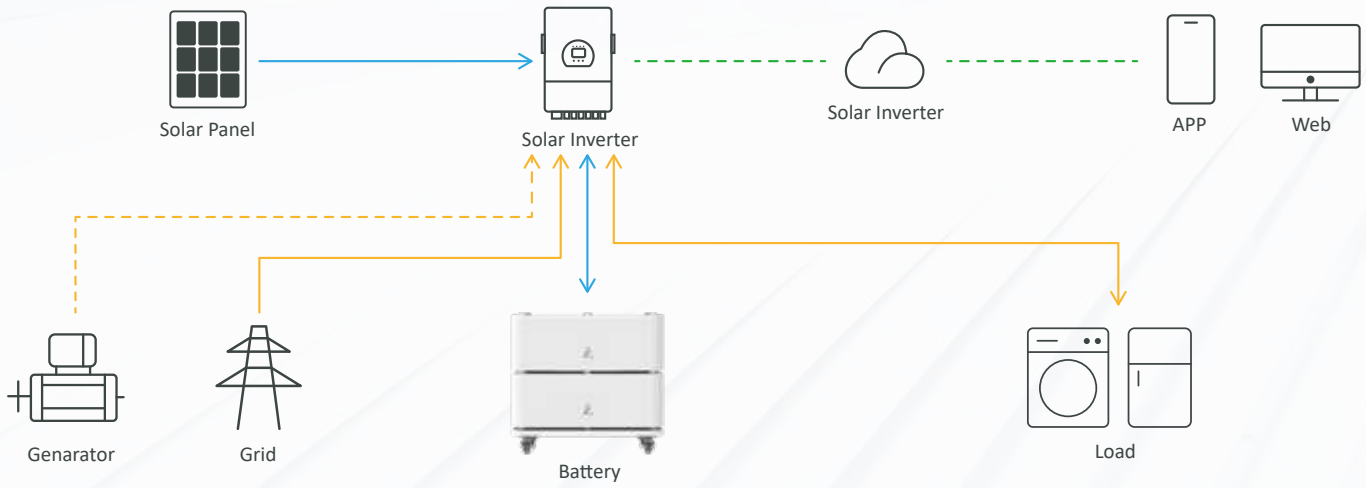
Compatiblity

Compatible with most of the available Hybrid inverters.

Safety Cert

IEC62619, CE-EMC, UN38.3, MSDS

Solar System Connection



Technical Parameter

Model	YEB-10K20B	YEB-10K30B	YEB-10K40B	YEB-10K50B	YEB-10K60B
Inverter Type	10kW/51.2V AC hybrid inverter				
Rated Output Power	10kW				
Output Voltage	230VAC 50HZ				
Low DC Warning Voltage	47.7Vdc				
Low DC Cut-off Voltage	46.1Vdc				
Low DC Warning Return Voltage	47.8Vdc				
Total Charging Current(Grid+solar)	200A Max.				
Bulk Charging Voltage	58.6Vdc				
Float Charging Voltage	57.6Vdc				
LITHIUM IR ON BATTERY					
Normal Battery Modular	51.2V200Ah*2	51.2V200Ah*3	51.2V200Ah*4	51.2V200Ah*5	51.2V200Ah*6
Normal Capacity (25ºC, 0.2C)	20480Wh	30720Wh	40960Wh	51200Wh	61440Wh
Nominal Battery Voltage	51.2Vdc	51.2Vdc	51.2Vdc	51.2Vdc	51.2Vdc
Max.Charge Current	200A 1Sec				
Max.Discharge Current	200A				
Operation Voltage Range	44.8Vdc ~ 58 .4Vdc				
Life of cycle	10000 times 80% DOD 25°C				
Operation Temperature	-23°C~+65°C				
AC INPUT					
Nominal Input Voltage	230Vac Settable: 208/220/230/240 Vac				
Input voltage range	90-280V				
Frequency Range	40~70Hz, Default				
Main topology	L + N + PE				
Minimum input voltage	90Vac				
Max. AC Input Voltage	280Vac				
Nominal Current (RMS)	45A				
Max Current (RMS)	50A Max.				
SOLAR INPUT					
Nominal PV Voltage	450Vdc				
PV Array MPPT Voltage Range	120Vdc~550Vdc				
Max. PV Array Open Circuit Volta	550Vdc				
Solar Charging Current	200A Max.				
PRODUCTS SIZE (mm)	845*461*520	845*461*683	845*461* 845.5	845*461*1008	845*461* 1170.5
WEIGHT (KG)	200	290	380	470	560
PROTECTION					
Protection	Overcharge protection 、 Overdischarge protection 、 Overcurrent protection、 Shortcircuit protection 、 Overtemperature protection				
AMBIENT					
Noise(dB)	< 30°C < 40dB (1 meter)				
Working Temperature	Charge Temperature 0ºC~60ºC;Discharge Temperature -20ºC~60ºC				



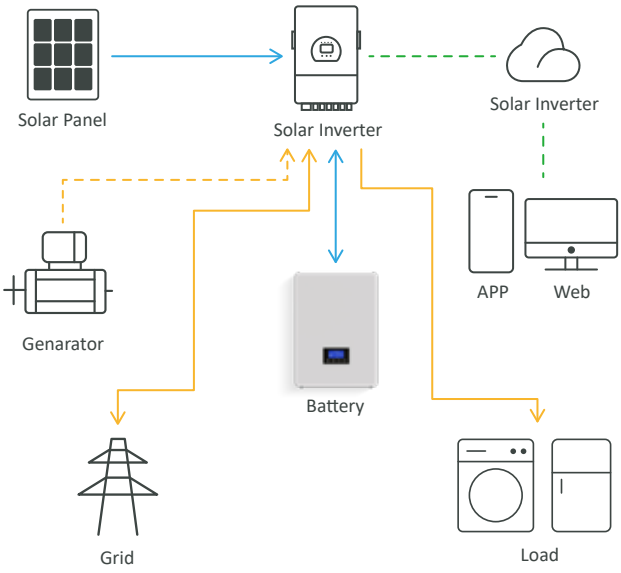
2kWh-15kWh

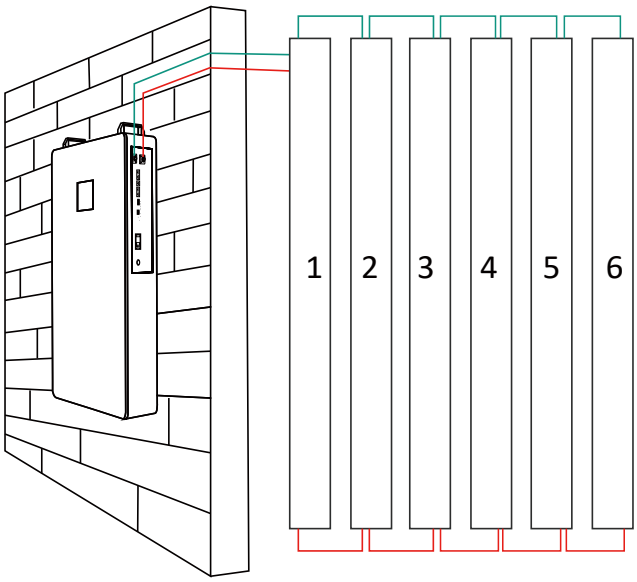
25.6V 100/200Ah,51.2V 100/200/300Ah

Main Features

- Top brand new LiFePO4 cells, super safety.
- 5 Years warranty, 6000+ cycles, 10+years life design.
- Support wall mounted or floor stand installation.
- Smart BMS matches well with solar system.
- All around protection and unattended operation.
- Battery integrated with multiple communication protocols for 10+ brands of inverters.

Solar System Connection





Technical Parameter

MODEL	24100	24200	48100	48200	48300
Installation	Wall-Mounted	Wall-Mounted	Wall-Mounted	Wall-Mounted	Stand with Wheel
Total Energy	2560Wh	5120Wh	5120Wh	10240Wh	15360Wh
Usable Energy(80%DOD)	2048Wh	4096Wh	4096Wh	8192Wh	12288Wh
Norminal Capacity	100Ah	200Ah	100Ah	200Ah	300Ah
Norminal Voltage	25.6V	25.6V	51.2V	51.2V	51.2V
Voltage Window	21.6-29.2V	21.6-29.2V	43.2-58.4V	43.2-58.4V	43.2-58.4V
Fast Charge Voltage	29.2V	29.2V	58.4V	58.4V	58.4V
Folat Charge Voltage	28.8V	28.8V	57.6V	57.6V	57.6V
Low DC Cut-off Voltage	21.6V	21.6V	43.2V	43.2V	43.2V
Max. Continue Discharge Current	100A	120A	100A	120A	200A
Max. Continue Charge Current	100A	120A	100A	120A	150A
Suggested Charge Current	50A	100A	50A	100A	100A
Display	LCD Display				
Scalable	Max. 15pcs in parallel				
Communication Way	RS485/CAN				
Cycle Life	6000 times@(+25°C,0.5C,80% DOD,60% EOL)				
Terminal	Doulbe M8				
Storage Temperature	0°C~30°C				
Storage Duration	6 months at 25°C				
Safety Standard	UN38.3,MSDS				
IP Degree	Ip21 indoor installation				
PROTECTION					
Protection	Over charge protection/Over discharge protection/Over current protection/Short circuit protection/ Over temperature protection				
AMBIENT					
Working Temperature	Charge Temperature 0ºC~60ºC;Discharge Temperature -20ºC~60ºC				
Humidity	0-95%(no condensation)				
DIMENSION					
L x W x H(Product size)mm	600x400x170	720x480x170	720x480x170	800x550x170	970x600x250
L x W x H(Packaget size)mm	670x470x270 (UN carton)	790x550x270 (UN carton)	790x550x270 (UN carton)	905x655x327 (UN carton)	1070x620x430 (UN wooden case)
Weight(NW Kg)	32.2	47.2	56.75	81.5	128.5
Weight(GW Kg)	36.4	53	62.2	90.5	149

Smart BMS supports communication with different brand of hybrid inverter



15kWh-60kWh

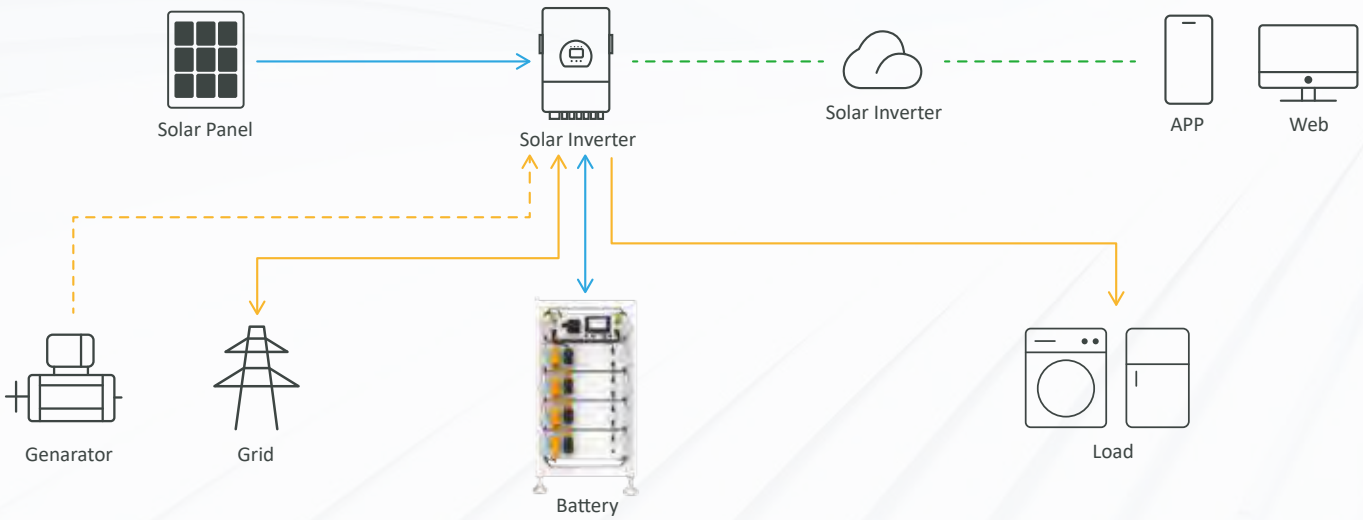
Battery Cell: 3.2V 100Ah

Each Module: 5.12kWh

Main Features

- Top brand new LiFePO4 cells, super safety.
- 5 Years warranty, 6000+ cycles, 10+years life design.
- Support wall mounted or floor stand installation.
- Smart BMS matches well with solar system.
- All around protection and unattended operation.
- Battery integrated with multiple communication protocols for 10+ brands of inverters.

Solar System Connection



Technical Parameter

MODEL	15kWh	20kWh	25kWh	30kWh	35kWh	40kWh	45kWh	50kWh	55kWh	60kWh
Installation Mode	Racked									
Battery Type	LifePO4(LFP)									
Module Energy (kWh)	5.12									
Module Nominal Voltage (V)	51.2									
Module Capacity (Ah)	100									
System Model	OHR15-100	OHR20-100	OHR25-100	OHR30-100	OHR35-100	OHR40-100	OHR45-100	OHR50-100	OHR55-100	OHR60-100
Battery Module Qty In Series (Optional)	3	4	5	6	7	8	9	10	11	12
System Nominal Voltage (V)	153.6	204.8	256.0	307.2	358.4	409.6	460.8	512.0	563.2	614.4
System Operating Voltage (V)	139.2~170.4	185.6~227.2	232.0~284.0	278.4~340.8	324.8~397.6	371.2~454.4	417.6~511.2	464.0~568.0	510.4~624.8	556.8~681.6
System Nominal Capacity (KWh)	15.36	20.48	25.60	30.72	35.84	40.96	46.08	51.20	56.32	61.44
Usable Capacity (KWh)	12.29	16.38	20.48	24.58	28.67	32.77	36.86	40.96	45.06	49.15
Dimension (mm)	580*584.5*1578						580*584.5*2162			
Weight (Kg)	207.6	253.1	298.6	344.1	389.6	435.1	496.0	541.5	587.0	632.5
SOC	Intelligent algorithm									
Recommend Charge/ Discharge Current (A)	50									
Communicaiton	CAN									
Ingress Protection	IP20									
Altitude	≤2000m									
Cycle Life	25±2°C,0.5C/0.5C,EOL70%≥6000									
Monitoring Parameters	System voltage,Current,cell voltage,cell temperature,module temperature									
Working Temperature	Charge Temperature 0ºC~60ºC;Discharge Temperature -20ºC~60ºC									
Storage Temperature	-20ºC~45ºC									

1. DC Usable Energy, test conditions: 80% DOD, 0.2C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.
2. The current is affected by temperature and SOC.
3. The warranty is due whichever reached first of warranty period orlife cycle power.



30kWh-153kWh

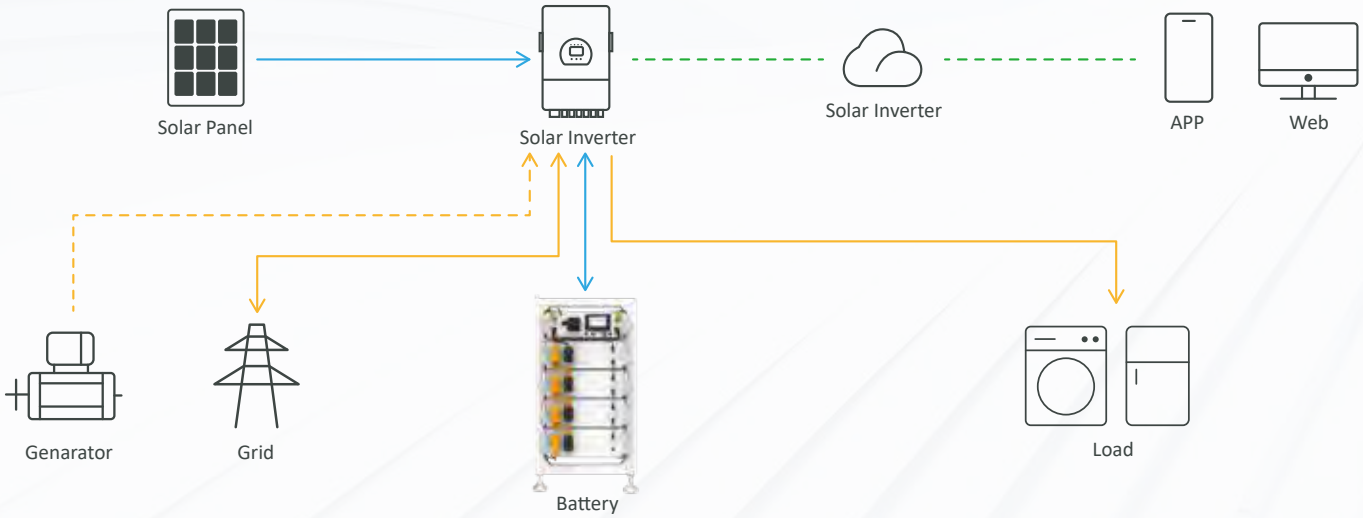
Battery Cell: 3.2V 200Ah
Each Module: 10.24kWh



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Solar System Connection



Technical Parameter

MODEL	30kWh	40kWh	51kWh	61kWh	71kWh	81kWh	92kWh
Installation Mode	Racked						
Battery Type	LifePO4(LFP)						
Module Energy (kWh)	10.24						
Module Nominal Voltage (V)	51.2						
Module Capacity (Ah)	200						
System Model	OHR30K-200	OHR40K-200	OHR51K-200	OHR61K-200	OHR71K-200	OHR81K-200	OHR92K-200
Battery Module Qty In Series (Optional)	3	4	5	6	7	8	9
System Nominal Voltage (V)	153.6	204.8	256.0	307.2	358.4	409.6	460.8
System Operating Voltage (V)	139.2~172.4	185.6~230.4	232.0~288.0	278.4~345.6	324.8~403.2	371.2~460.8	417.6~518.4
System Nominal Capacity (KWh)	30.72	40.96	51.2	61.4	71.6	81.9	92.1
Dimension (mm)	547*620*1341	547*620*1606	547*620*1871	547*620*2136	1200*620*1341	580*584.5*2162	
Weight (Kg)	347.5	440.0	532.5	625.0	758.7	856.7	943.7
SOC	Intelligent algorithm						
Recommend Charge/ Discharge Current (A)	80						
Communicaiton	CAN						
Ingress Protection	IP20						
Altitude	≤2000m						
Cycle Life	25±20C，0.5C/0.5C，EOL70%≥6000						
Monitoring Parameters	System voltage,Current,cell voltage,cell temperature,module temperature						
Working Temperature	Charge Temperature 0ºC~60ºC;Discharge Temperature -20ºC~60ºC						
Storage Temperature	-20ºC~45ºC						

MODEL	102kWh	112kWh	122kWh	133kWh	143kWh	153kWh
Installation Mode	Racked					
Battery Type	LifePO4(LFP)					
Module Energy (kWh)	10.24					
Module Nominal Voltage (V)	51.2					
Module Capacity (Ah)	200					
System Model	OHR102K-200	OHR112K-200	OHR122K-200	OHR133K-200	OHR143K-200	OHR153K-200
Battery Module Qty In Series (Optional)	10	11	12	13	14	15
System Nominal Voltage (V)	512.0	563.2	614.4	665.6	716.8	768.0
System Operating Voltage (V)	464~576	510.4~633.6	556.8~691.2	603.2~748.8	649.6~806.4	696.0~864.0
System Nominal Capacity (KWh)	102.4	112.6	122.8	133.1	143.3	153.6
Dimension (mm)	1200*620*1871		1200*620*2136		1200*620*2401	
Weight (Kg)	1041.7	1128.7	1226.7	1313.7	1411.7	1498.7
SOC	Intelligent algorithm					
Recommend Charge / Discharge Current (A)	80					
Communicaiton	CAN					
Ingress Protection	IP20					
Altitude	≤2000m					
Cycle Life	25±20C，0.5C/0.5C，EOL70%≥6000					
Monitoring Parameters	System voltage,Current,cell voltage,cell temperature,module temperature					
Working Temperature	Charge Temperature 0ºC~60ºC;Discharge Temperature -20ºC~60ºC					
Storage Temperature	-20ºC~45ºC					



43kWh-215kWh

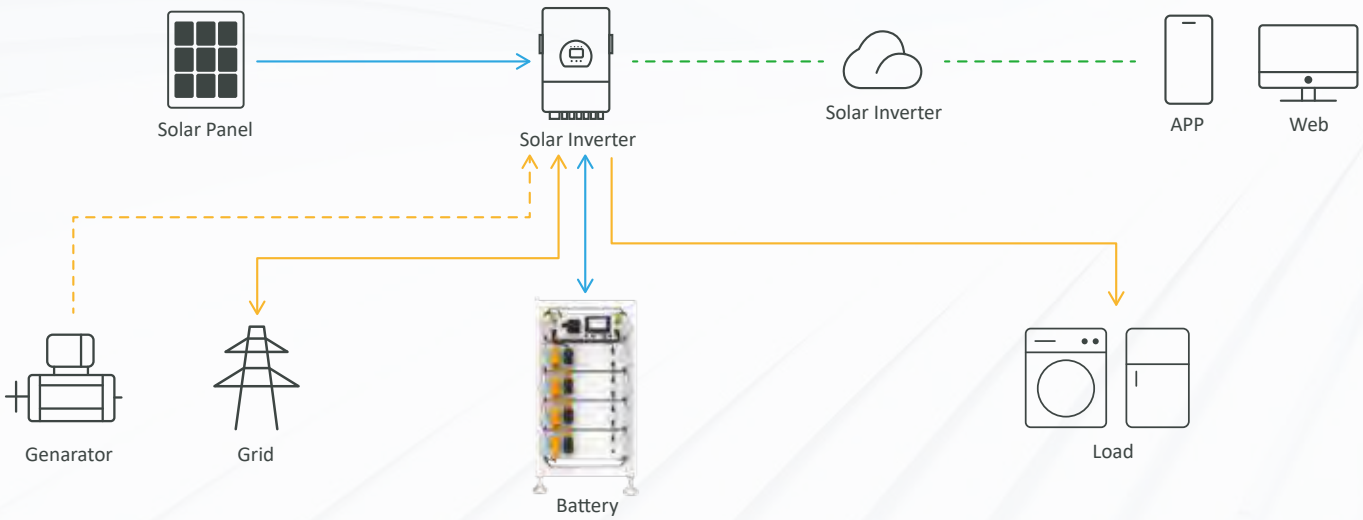
Battery Cell: 3.2V 280Ah

Each Module: 14.33kWh

Main Features

- Top brand new LiFePO4 cells, super safety.
- 5 Years warranty, 6000+ cycles, 10+years life design.
- Support wall mounted or floor stand installation.
- Smart BMS matches well with solar system.
- All around protection and unattended operation.
- Battery integrated with multiple communication protocols for 10+ brands of inverters.

Solar System Connection



Technical Parameter

MODEL	43kWh	57kWh	71kWh	86kWh	100kWh	114kWh	129kWh
Installation Mode	Racked						
Battery Type	LifePO4(LFP)						
Module Energy (kWh)	14.33						
Module Nominal Voltage (V)	51.2						
Module Capacity (Ah)	280						
System Model	OHR43K-280	OHR57K-280	OHR71K-280	OHR86K-280	OHR100K-280	OHR114K-280	OHR129K-280
Battery Module Qty In Series (Optional)	3	4	5	6	7	8	9
System Nominal Voltage (V)	153.6	204.8	256	307.2	358.4	409.6	460.8
System Operating Voltage (V)	139.2~172.8	185.6~230.4	232.0~288.0	278.4~345.6	324.8~403.2	371.2~460.8	417.6~518.4
System Nominal Capacity (KWh)	43.0	57.3	71.6	86.0	100.3	114.6	129.0
Dimension (mm)	547*799*1199	547*799*1463	547*799*1727	1054*799*1199	1054*799*1199	1054*799*1463	1054*799*1463
Weight (Kg)	462.2	591.2	720.2	880.2	998.2	1143.2	1261.2
SOC	Intelligent algorithm						
Recommend Charge/ Discharge Current (A)	140						
Communicaiton	CAN						
Ingress Protection	IP20						
Altitude	≤2000m						
Cycle Life	25±20C，0.5C/0.5C，EOL70%≥6000						
Monitoring Parameters	System voltage,Current,cell voltage,cell temperature,module temperature						
Working Temperature	Charge Temperature 0ºC~60ºC;Discharge Temperature -20ºC~60ºC						
Storage Temperature	-20ºC~45ºC						

MODEL	143kWh	157kWh	172kWh	186kWh	200kWh	215kWh
Installation Mode	Racked					
Battery Type	LifePO4(LFP)					
Module Energy (kWh)	14.33					
Module Nominal Voltage (V)	51.2					
Module Capacity (Ah)	280					
System Model	OHR43K-280	OHR57K-280	OHR71K-280	OHR86K-280	OHR100K-280	OHR114K-280
Battery Module Qty In Series (Optional)	10	11	12	13	14	15
System Nominal Voltage (V)	153.6	204.8	256	307.2	358.4	409.6
System Operating Voltage (V)	139.2~172.8	185.6~230.4	232.0~288.0	278.4~345.6	324.8~403.2	371.2~460.8
System Nominal Capacity (KWh)	43.0	57.3	71.6	86.0	100.3	114.6
Dimension (mm)	547*799*1199	547*799*1463	547*799*1727	1054*799*1199	1054*799*1199	1054*799*1463
Weight (Kg)	462.2	591.2	720.2	880.2	998.2	1143.2
SOC	Intelligent algorithm					
Recommend Charge/ Discharge Current (A)	140					
Communicaiton	CAN					
Ingress Protection	IP20					
Altitude	≤2000m					
Cycle Life	25±20C，0.5C/0.5C，EOL70%≥6000					
Monitoring Parameters	System voltage,Current,cell voltage,cell temperature,module temperature					
Working Temperature	Charge Temperature 0ºC~60ºC;Discharge Temperature -20ºC~60ºC					
Storage Temperature	-20ºC~45ºC					

Rack Mounted Type



48kWh-241kWh

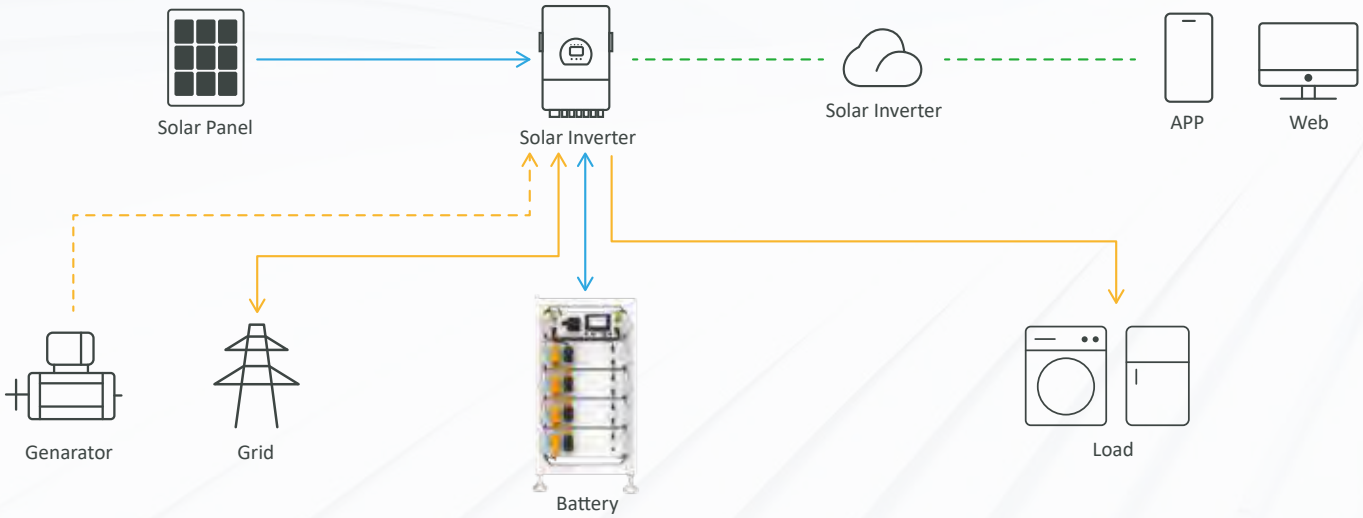
Battery Cell: 3.2V 314Ah

Each Module: 16kWh

Main Features

- Top brand new LiFePO4 cells, super safety.
- 5 Years warranty, 6000+ cycles, 10+years life design.
- Support wall mounted or floor stand installation.
- Smart BMS matches well with solar system.
- All around protection and unattended operation.
- Battery integrated with multiple communication protocols for 10+ brands of inverters.

Solar System Connection



Technical Parameter

MODEL	48kWh	64kWh	80kWh	96kWh	112kWh	128kWh	144kWh
Installation Mode	Racked						
Battery Type	LifePO4(LFP)						
Module Energy (kWh)	16.07						
Module Nominal Voltage (V)	51.2						
Module Capacity (Ah)	314						
System Model	OHR48K-314	OHR64K-314	OHR80K-314	OHR96K-314	OHR112K-314	OHR128K-314	OHR144K-314
Battery Module Qty In Series (Optional)	3	4	5	6	7	8	9
System Nominal Voltage (V)	153.6	204.8	256	307.2	358.4	409.6	460.8
System Operating Voltage (V)	139.2~172.8	185.6~230.4	232.0~288.0	278.4~345.6	324.8~403.2	371.2~460.8	417.6~518.4
System Nominal Capacity (KWh)	48.2	64.3	80.3	96.4	112.5	128.6	144.7
Dimension (mm)	547*799*1199	547*799*1463	547*799*1727	1054*799*1199	1054*799*1199	1054*799*1463	1054*799*1463
Weight (Kg)	471.2	603.2	735.2	898.2	1019.2	1167.2	1288.2
SOC	Intelligent algorithm						
Recommend Charge/ Discharge Current (A)	157						
Communicaiton	CAN						
Ingress Protection	IP20						
Altitude	≤2000m						
Cycle Life	25±20C，0.5C/0.5C，EOL70%≥6000						
Monitoring Parameters	System voltage,Current,cell voltage,cell temperature,module temperature						
Working Temperature	Charge Temperature 0ºC~60ºC;Discharge Temperature -20ºC~60ºC						
Storage Temperature	-20ºC~45ºC						

MODEL	160kWh	176kWh	192kWh	208kWh	225kWh	241kWh
Installation Mode	Racked					
Battery Type	LifePO4(LFP)					
Module Energy (kWh)	16.07					
Module Nominal Voltage (V)	51.2					
Module Capacity (Ah)	314					
System Model	OHR160K-314	OHR176K-314	OHR192K-314	OHR208K-314	OHR225K-314	OHR241K-314
Battery Module Qty In Series (Optional)	10	11	12	13	14	15
System Nominal Voltage (V)	153.6	204.8	256	307.2	358.4	409.6
System Operating Voltage (V)	464.0~576.0	510.4~633.6	556.8~691.2	603.2~748.8	649.6~806.4	696.0~864.0
System Nominal Capacity (KWh)	160.7	176.8	192.9	208.9	225.0	241.1
Dimension (mm)	547*799*1199	547*799*1463	547*799*1727	1054*799*1199	1054*799*1199	1054*799*1463
Weight (Kg)	1436.2	1557.2	1705.2	1826.2	1974.2	2095.2
SOC	Intelligent algorithm					
Recommend Charge/ Discharge Current (A)	157					
Communicaiton	CAN					
Ingress Protection	IP20					
Altitude	≤2000m					
Cycle Life	25±20C，0.5C/0.5C，EOL70%≥6000					
Monitoring Parameters	System voltage,Current,cell voltage,cell temperature,module temperature					
Working Temperature	Charge Temperature 0ºC~60ºC;Discharge Temperature -20ºC~60ºC					
Storage Temperature	-20ºC~45ºC					



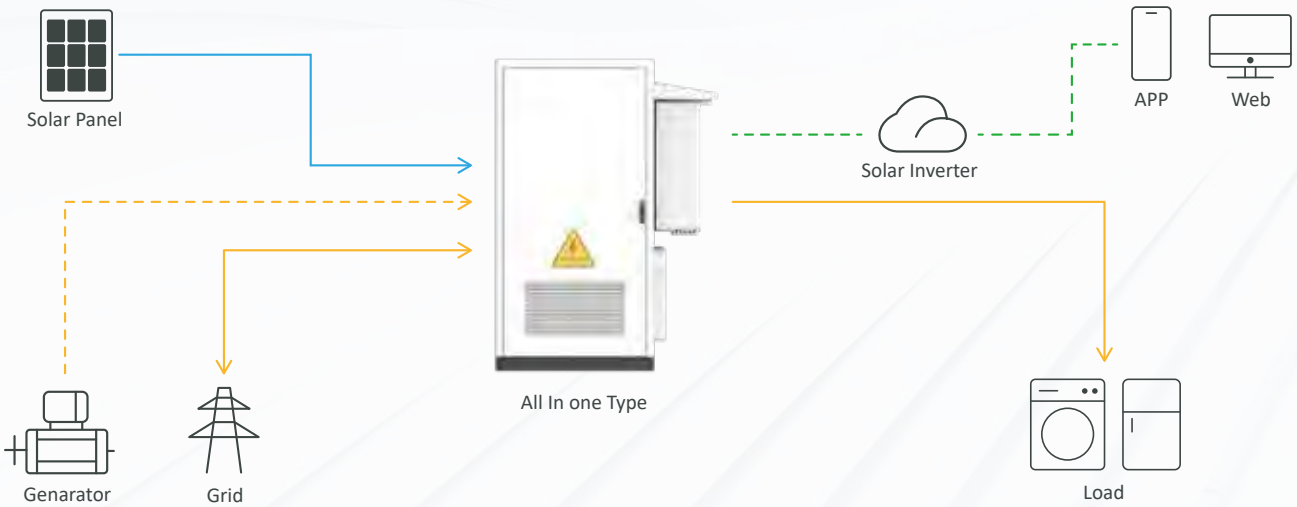
Air Cooling Type

100kWh-241kWh

Main Features

- Supports photovoltaic access
- Modular design for flexible expansion and easy maintenance
- Multiple communication methods support remote upgrades
- Supports 100% unbalanced loads and 110% long-term overloads
- Ultra-high energy density, compact size, easy installation and transportation
- Adjustable output power, configurable charge and discharge power, strong grid adaptabilit

Solar System Connection



Technical Parameter

Battery Parameters	100kWh	112kWh	200kWh	215kWh	241kWh
Battery Parameters					
Usable Energy (kWh)	100	112	200	200	200
Cell Type	LFP(LiFePO4)	LFP(LiFePO4)	LFP(LiFePO4)	LFP(LiFePO4)	LFP(LiFePO4)
Battery Moudule Capacity (kWh)	14.336	16.067	14.366	14.366	14.366
Number of battery modules	7	7	14	14	14
Rated Voltage(V)	358.4	358.4	716.8	716.8	716.8
Maximum Charge/Discharge Current (A)	140	140	140	140	140
PV INPUT Parameters					
Maximum Input Power (kW)	45	45	80	80	80
Maximum Input Voltage (V)	1000	1000	1000	1000	1000
MPPT Voltage Range (V)	200~850	200~850	150~850	150~850	150~850
Startup Voltage (V)	200	200	180	180	180
Rated Input Voltage (V)	620	620	600	600	600
Maximum Input Current per MPPT (A)	30	30	36	36	36
Maximum Short-Circuit Current per MPPT (A)	38	38	55	55	55
Number of MPPTs	3	3	4	4	4
Number of Strings per MPPT	2/2/2	2/2/2	2	2	2
Grid-Tied Output Parameters					
Rated Output Power (kW)	30	30	50	50	50
Maximum Output Power (kW)	33	33	55	55	55
Rated Output Apparent Power (kVA)	30	30	50	50	50
Rated Output Voltage (V)	400/380	400/380	400/380	400/380	400/380
Output Voltage Frequency (Hz)	50	50	50	50	50
Maximum Grid-Tied Output Current (A)	50	50	72.5	72.5	72.5
Maximum Input Current (A)	50	50	79.8	79.8	79.8
Power Factor	~1	~1	~1	~1	~1
Total Current Harmonic Distortion	<3%	<3%	<3%	<3%	<3%
Off-Grid Output Parameters					
Rated Off-Grid Apparent Power (kVA)	30	30	50	50	50
Maximum Off-Grid Apparent Power (kVA)	33	33	55	55	55
Maximum Output Current (A)	45.5	45.5	79.8	79.8	79.8
Rated Output Voltage (V)	400/380	400/380	400/380	400/380	400/380
Rated Output Voltage Frequency (Hz)	50	50	50	50	50
Total Voltage Harmonic Distortion	<3%	<3%	<3%	<3%	<3%
Efficiency					
Maximum PCS Efficiency	98.00%				
System Efficiency	95.00%				
Protection					
PV Reverse Polarity Protection	Integrated				
Residual Current Monitoring	Integrated				
Battery Reverse Polarity Protection	Integrated				
Anti-Islanding Protection	Integrated				
AC Overcurrent Protection	Integrated				
AC Short Circuit Protection	Integrated				
DC Switch	Integrated				
DC Surge Protection	Level 2				
AC Surge Protection	Level 3				
Basic Parameters					
Operating Temperature Range (°C)	-25~+55				
Relative Humidity	0~95%				
Operating Temperature Range (m)	3000				
Cooling Method	Intelligent Air Cooling				
Human-Machine Interface	LED,WLAN+App				
BMS Communication Method	RS485,CAN				
Communication Protocol	RS485				
Communication Interface	CAN				
Weight (kg)	<1300				
Dimensions (WxHxD mm)	804*2180*1104	804*2180*1104	804*2180*1104	804*2180*1104	804*2180*1104
Topology	Non-Isolaed				
Protection Level	IP55				

All In one Type



Liquid Cooling Type

233kWh-261kWh

Main Features

Multi-fusion
Bulit-in EMS,PCS and BMS,auxiliary power redundancy design;

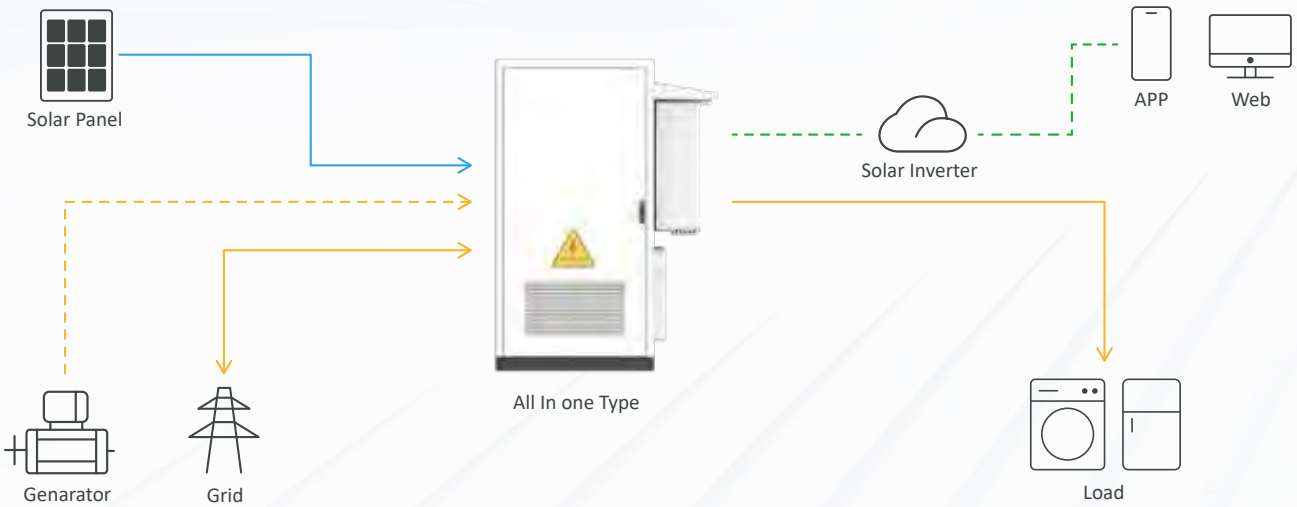
Safety
Lithium Iron Phosphate(LFP)batteries,battery packs and system all use aerosol fire extinguishing fluids;

Intelligent temperature control
Operating at full power,the maximum temperature of the battery is below 38°C,and the temperature difference is less than 3°C;

High-protection
5cm fire proof rock wool,1 hour flame retardant protection, C4 shell protection;

Reliable
One cluster management,cloud-edge collaboration, real-time data monitoring,and fault warning;

Solar System Connection



Technical Parameter

Battery Parameters	FH-233	261kWh
System parameters		
Rated output power(kW)	100	
AC output frequency/voltage	50/60Hz;380/400Vac	
Grid type	Three-phase five-wire	
Capacity(kWh)	233	261
Dimensions(W/D/H,mm)	1100*1400*2380	
Weight(kg)	≤3000	
Battery operating voltage(V)	650~949	
Maximum cycle efficiency	92%	
Communication	ETH/4G	
Ambient temperature(°C）	-20~55	
Operating altitude(m)	≤2000	
IP	IP55	
Corrosion protection level	C4	
Installation	Ground installation	
Converter parameters		
Rated output current(A)	144	
Maximum output current(A)	192	
Maximum number of parallel machines	8	
Peak power	1.1(long-term) 1.2(1min)	
Power factor	-0.99~+0.99	
Current harmonics	≤3%	
Operating temperature(°C）	-20~50(＞45°C Downclocking)	
Operating humidity	0% ～95%(No Condensing)	
Communication	CAN,RS485,LAN	
Maximum efficiency	≥98.2%	
Battery technical parameters		
Cell type	LFP 3.2V280Ah	
Standard voltage(V)	166.4	
Capacity(kWh)	46.6	52.3
Communication	CAN	
Module size(W*D*H,mm)	784*1160*242	
Module weight(kg)	323	332
Operating temperature	Charge Temperature 0ºC~60ºC;Discharge Temperature -20ºC~60ºC	
Cycle life	≥6000(@25°C±2°C,0.5C/0.5C,70%EOL)	



BESS Series

20FT/40FT BESS

Product Highlights

- A variety of working modes can be flexibly set
- Loads, batteries, and grids are connected at the same time
- Support real-time online monitoring of system status
- The electrical compartment and battery compartment are placed separately to prevent thermal spread from getting out of control
- Battery management system and comprehensive thermal management
- Integrated design, easy to install and transport

Application

Industrial and commercial peak shaving and valley filling

Emergency power supply

Grid-side peak regulation and frequency regulation

Technical Parameter

Model	BESS500K-1200	BESS1000K-2400
AC parameters		
Rated power (kW)	500	1000
Rated voltage (V)	400	
Current rating (A)	722	1445
Voltage range (V)	320-460	
Rated frequency (Hz)	50/60	
Frequency range (Hz)	45~55/55~65	
THDi (Grid)	<3%	
THDi (Off-grid)	≤1% linear;≤5% nonlinear	
Factor	-1~+1	
Overload capacity	110%(Long time)	
Grid type	3W+N+PE	
IIsolation transformers	315/400	
And off-grid switching	Support	
PV parameters		
Maximum PV input voltage (V)	1000	
Maximum photovoltaic power (kW)	600/660/720	1200/1320/1440
MPPToperatingvoltagerange (V)	250~850	
Buck-boostmode	Support	
Battery parameters		
Battery type	3.2V/314Ah/LFP	
Ratedvoltage (V)	51.2V/1P16S	
Nominalcapacity (MWh)	1.205	2.410
Operatingvoltagerange (V)	672~850	
Maximumcharge/dischargerate	0.5C@25ºC	
Cyclelife	≥6000	
Generalparameters		
System specifications	500kW/1205kWh (1200kWh)	1000kW/2411kWh (2400kWh)
Size W*D*H (mm)	6058×2438×2591	12192×2438×2591
Weight (kg)	21000	38000
Operatingtemperaturerange (ºC)	0~+45	
Relative humidity	0~95% (No condensation)	
Ingressprotection	IP54	
Max imum working altitude	5000 (＞3000 Downclocking)	
Coolingmethod	Intelligent temperature control air cooling	
Fire extinguishin gsystem	Perfluorohexanone	
Display screen	7-inch device display and 10-inch EMS display	
Communication	RS485,TCP/IP	





Hybrid Inverter

4KW 6KW 11KW

Product Highlights

- High frequency inverter,lighter weight with higher efficiency
- Output power factor PF=1
- Optional WIFI function
- Parallel function to expansion power
- Higher solar charging efficiency and battery protection
- lithium battery activation start function with ac and solar mode
- 500V high PV input
- Pure sine wave output, adaptable to different loads
- Working with or without battery

Application

House Farm Telecom Countryside Island Pasture

SUNMASTER

Technical Parameter

Model	Model	Model	Model
Input			
Phase	L+N+PE		
Nominal Voltage	220/230/240VAC		
Voltage Range	90-280VAC±3V（Normal Mode) 170-280VAC±3V（UPS Mode）		
Frequency Range	50Hz/60Hz(Adaptive)		
Output			
Rated Power	4000W	6200W	11000W
Output Voltage(AC)	220/230/240VAC±5%		
Output Frequency	50/60Hz±0.1%		
Waveform	Pure sine wave		
Transfer Time(Optional)	≤10ms(UPS mode)/≤20ms (INV mode)		
Peak power	8000VA	12400VA	22000VA
Overload	Battery Mode：21s@105%~150% Load/11s@150%~200% Load		
Maximum Conversion Efficiency (DC/AC)	>98%	>98%	>98%
Battery			
Rated voltage	24Vdc	48Vdc	48Vdc
Constant voltage charging voltage (Optional)	28.2Vdc	56.4Vdc	56.4Vdc
Floating charge voltage (Optional)	27Vdc	54Vdc	54Vdc
Charger			
PV charging method	MPPT	MPPT	MPPT
PV max input power	6500W	8500W	5500W+5500W
MPPT tracking range	60~500Vdc	60~500Vdc	90~500Vdc
Max PV input voltage	500Vdc	500Vdc	500Vdc
PV Input Current	27A	27A	27A
Max PV charging current	120A	120A	150A
Max AC charging current	100A	100A	150A
Max charging current	120A	120A	150A
Display			
LCD display	Operating mode/load/input/output, etc.		
Communication port			
RS232	Baud rate 2400		
Expansion & configuration port	Lithium battery BMS communication card,WIFI card, dry contact card, etc.		
Parallel interface	NO	YES	YES
Environmental parameters			
Operating environment temperature	-10~50°C		
Operating environment humidity	20%~95%(Non condensing)		
Storage temperature	-15~60°C		
Altitude	The altitude should not exceed 1000m, derating above 1000m,up to 4000m, refer to IEC62040		



SEI-3K-H3P/SEI-4K-H3P
SEI-5K-H3P/SEI-6K-H3P
SEI-7K-H3P/SEI-8K-H3DP

Product Highlights

Effciency

- Advanced MPPT with up to 99.9% efficiency
- Up to 26A+26A+26A PV input current

Reliable

- Outputs high-quality pure sine wave AC power
- With IP65 protection degree
- Up to 9 units can be connected in parallel.

Safety

- Comprehensive security from hardware to software
- Multiple safety approvals

User-friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

All-in-one

- Up to 350A charging current
- Supports lead-acid battery and li-ion battery

Intelligent

- Exclusive Li-ion battery BMS dual activation
- Time-slot function to save cost with peak-valley

Application

House | Farm | Telecom | Countryside | Island | Pasture

SUNMASTER

Model	SEI-3K-H3P	SEI-4K-H3P	SEI-5K-H3P	SEI-6K-H3P	SEI-7K-H3P	SEI-8K-H3DP
AC OUTPUT(LOAD)						
Rated Output Power	3000W	4000W	5000W	6000W	7000W	8000W
Max. Peak Power	6000VA	8000VA	10000VA	12000VA	14000VA	16000VA
Rated Output Voltage	230/400Vac(three-Phase)					
Load Motor Capacity	3HP		4.5HP		6HP	
Rated Frequency	50/60Hz ± 0.3Hz					
Waveform	Pure Sine Wave					
Switch Time	10ms (typical)					
AC OUTPUT(GRID)						
Rated Output Power	3000W	4000W	5000W	6000W	7000W	8000W
Max. Apparent Power	3300VA	4400VA	5500VA	6600VA	7700VA	8800VA
Power Factor	0.8 leading, 0.8 lagging					
Rated Voltage	3L/N/PE 230/400Vac					
Rated AC Frequency	50/60Hz					
Rated Output Current	4.4A	5.8A	7.2A	8.7A	10.1A	11.6A
THD	<3%					
BATTERY						
Battery Type	Li-ion / Lead-Acid / User Defined					
Rated Battery Voltage	48Vdc					
Battery Voltage Range	40-60Vdc					
Max. Grid Charging Current	50Adc	60Adc	80Adc	100Adc	120Adc	140Adc
Max. Generator Charging Current	50Adc	60Adc	80Adc	100Adc	120Adc	140Adc
Max. Hybrid Charging Current	80Adc	100Adc	120Adc	150Adc	180Adc	200Adc
PV INPUT						
No. of MPPT Trackers	1		2			
Max. PV Input Power	6000W	8000W	5000W+5000W	6000W+6000W	7000W+7000W	8000W+8000W
Max. PV Input Current	26Adc		26Adc+26Adc			
Max. Short Circuit Current	35Adc		35Adc+35Adc			
Max. Open Circuit Voltage	800Vdc		800Vdc/800Vdc			
MPPT Voltage Range	200-650Vdc		200-650Vdc/200-650Vdc			
GRID/GENERATOR INPUT						
Input Voltage Range	Phase voltage: 170-280V; Line voltage: 305-485V					
Input Frequency Range	50Hz / 60Hz					
Bypass Overload Current	45A					
EFFICIENCY						
MPPT Tracking Efficiency	99.9%					
Max. Efficiency	≧92%					
European Efficiency	97%					

GENERAL DATA			
Parallel Capacity	1-6 Units(More than 3 units in parallel can form a three-phase output)		
Dimensions	640x400x250mm (Hangers and connectors not included)	Humidity Range	0-100%
Weight	37.5kg	Cooling Method	Heat sink + intelligent fan cooling
Protection Level	IP65	Noise	<55dB
Temperature	-25 to +600C, >4500Derate	Communication Port	RS485/CAN
Warranty	5 years	External Module	WIFI/4G Stick(Option)
Certificate	EN50549,VDE4105,IEC62109-1, IEC62109-2,IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2, RoHS		
PROTECTION			
PV lightning protection, anti-islanding protection, reverse connection protection for PV input, insulation resistance detection, leakage current detection, output overcurrent protection, output short-circuit protection			
Overvoltage Protection Level	AC type II/DC type III	Surge Protection	AC type II/DC type II





SEI-16K-H3P SEI-18K-H3P SEI-20K-H3P

Product Highlights

Effciency

- Advanced MPPT with up to 99.9% efficiency
- Up to 26A+26A+26A PV input current

Reliable

- Outputs high-quality pure sine wave AC power
- With IP65 protection degree
- Up to 9 units can be connected in parallel.

Safety

- Comprehensive security from hardware to software
- Multiple safety approvals

User-friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

All-in-one

- Up to 350A charging current
- Supports lead-acid battery and li-ion battery

Intelligent

- Exclusive Li-ion battery BMS dual activation
- Time-slot function to save cost with peak-valley

Application

House | Farm | Telecom | Countryside | Island | Pasture

Model	SEI-16K-H3P	SEI-18K-H3P	SEI-20K-H3P	Adjustable
AC OUTPUT（LOAD）				
Rated Output Power	16000W	18000W	20000W	
Max. Peak Power	32000VA	36000VA	40000VA	
Rated Output Voltage	230/400Vac (Three-Phase)			☒
Load Motor Capacity	10HP	11HP	12HP	
Rated Frequency	50/60Hz ± 0.3Hz			☒
Waveform	Pure sine wave			
Switch Time	10ms（Typical）			
AC OUTPUT（GRID）				
Rated Output Power	16000W	18000W	20000W	
Max. Apparent Power	32000VA	36000VA	40000VA	
Power Factor	0.8 leading to 0.8 lagging			
Rated Voltage	3L/N/PE 230/400Vac			
Rated AC Frequency	50/60Hz			
Rated Output Current	23.2A	26.1A	29A	
THD	<3%			
BATTERY				
Battery Type	Lithium–ion Battery / Lead–acid Battery / User–defined			☒
Rated Battery Voltage	48Vdc			
Battery Voltage Range	40 ～60Vdc			
Max. Grid Charging Current	300Adc	330Adc	350Adc	☒
Max. Generator Charging Current	300Adc	330Adc	350Adc	☒
Max. Hybrid Charging Current	300Adc	330Adc	350Adc	☒
PV INPUT				
No. of MPPT Trackers	3			
Max. PV Input Power	24000W	27000W	30000W	
Max. PV Input Current	26Adc / 26Adc / 26Adc			
Max. Short Circuit Current	45Adc / 45Adc / 45Adc			
Max. Open Circuit Voltage	1000Vdc			
MPPT Voltage Range	160~800Vdc			
GRID/GENERATOR INPUT				
Input Voltage Range	Phase Voltage: 170V～280V; Line Voltage: 305V ～485V			
Input Frequency Range	50Hz / 60Hz			
Bypass Overload Current	70A			
EFFICIENCY				
MPPT Tracking Efficiency	99.9%			
Max. Efficiency	≧97.8%			
European Efficiency	97.2%	97.5%	97.5%	

GENERAL DATA			
Parallel Capacity	**1～9 Units**		
Dimensions	800x470x313mm	**Humidity Range**	**0～100%**
Weight	59.5kg	**Cooling Method**	**Heat sink + intelligent fan cooling**
Protection Level	IP65	**Noise**	**<55dB**
Temperature	**-25 to +60℃, >45℃ Derate**	**Communication Port**	**RS485 / CAN / USB / Dry contact**
Warranty	**5 years**	**External Module**	**WIFI / 4G Stick**
Certificate	EN50549,VDE4105,IEC62109-1, IEC62109-2,EN61000-6-1, EN61000-6-3, FCC 15 class B, RoHS		
PROTECTION			
PV lightning protection, anti-islanding protection, reverse connection protection for PV input, insulation resistance detection, leakage current detection, output overcurrent protection, output short-circuit protection			
Overvoltage Protection Level	**AC type II/DC type III**	**Surge Protection**	**AC type II/DC type II**





SEI-3.6K-SP/ SEI-4K-SP/4.6K-SP/ 5K-SP/5.5K-SP/6K-SP

Product Highlights

Effciency

- Advanced MPPT with up to 99.9% efficiency
- Up to 26A+26A+26A PV input current

Reliable

- Outputs high-quality pure sine wave AC power
- With IP65 protection degree
- Up to 9 units can be connected in parallel.

Safety

- Comprehensive security from hardware to software
- Multiple safety approvals

User-friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

All-in-one

- Up to 350A charging current
- Supports lead-acid battery and li-ion battery

Intelligent

- Exclusive Li-ion battery BMS dual activation
- Time-slot function to save cost with peak-valley

Application

House | Farm | Telecom | Countryside | Island | Pasture

SUNMASTER

Model	SEI-3.6K-SP	SEI-4K-SP	SEI-4.6K-SP	SEI-5K-SP SEI-5.5K-SP	SEI-6K-SP	Settable
AC OUTPUT（LOAD）						
Rated Output Power	3600W	4000W	4600W	5500W	6000W	
Max. Peak Power	7200VA	8000VA	9200VA	11000VA	12000VA	
Rated Output Voltage	230Vac（Single phase）（200/208/220/240Vac settable）					☒
Load Motor Capacity	3HP		4HP			
Rated Frequency	50/60Hz ±0.3Hz					
Waveform	Pure Sine Wave					
Switch Time	10ms（typical）					
AC OUTPUT（GRID）						
Rated Output Power	3600W	4000W	4600W	5500W	6000W	
Max. Apparent Power	3960VA	8000VA	9200VA	11000VA	12000VA	
Power Factor	0.8 leading to 0.8 lagging					
Rated Voltage	220/230Vac					
Rated AC Frequency	50/60Hz					
Rated AC Output Current	15.7Aac	17.4Aac	20Aac	24Aac	26Aac	
THD	<3%					
BATTERY						
Battery Type	Li-ion / Lead-Acid / User Defined					☒
Rated Battery Voltage	48V					
Battery Voltage Range	40～60Vdc					☒
Max. Grid Charging Current	60Adc					☒
Max. Generator Charging Current	60Adc					☒
Max. Hybrid Charging Current	100Adc					☒
PV INPUT						
No. of MPPT Trackers	2					
Max. PV Input Power	2700W+2700W	3000W+3000W	3500W+3500W	4000W+4000W	4500W+4500W	
Max. PV Input Current	16A+16A					
Max. Short Circuit Current	27A+27A					
Max. Open Circuit Voltage	500Vdc+500Vdc					
MPPT Operating Voltage Range	120~450Vdc					
GRID/GENERATOR INPUT						
Input Voltage Range	90～280Vac					☒
Input Frequency Range	50/60Hz					
Bypass Overload Current	40Aac					
EFFICIENCY						
MPPT Tracking Efficiency	99.9%					
Max. Efficiency	97.5%					
European Efficiency	97%					

GENERAL DATA			
Parallel Capacity	1～6 Units（More than 3 units in parallel can form a three-phase output）		
Dimension	556*345*182mm	Humidity	0～100%
Weight	22.1kg	Cooling Method	Heat sink + intelligent fan cooling
Protection Degree	IP65	Warranty	5 years
Temperature	-25 to +60°C, >45°C Derate	Communication	RS485/CAN/USB/Dry Contact
External Module（Optional）	Wi-Fi/GPRS	Noise	<60dB
Certificate	EN50549-1,G99,NRS-097,VDE-ARN-4105,CEI021,UNE217002,IEC62109-1, IEC62109-2, EN61000-6-1,EN61000-6-3, FCC 15 class B,RoHS		
PROTECTION			
PV Reverse Protection	Yes	Anti-Islanding Protection	Yes
Residual-Current Monitoring	Yes	Insulation Resistance Monitoring	Yes
Output Short-Circuit Protection	Yes	Output Over-Current Protection	Yes
Over-Voltage Protection	AC type II/DC type III	Surge Protection	AC type II/DC type II



SEI-8K-SPD

Product Highlights

Effciency

- Advanced MPPT with up to 99.9% efficiency
- Up to 26A+26A+26A PV input current

Reliable

- Outputs high-quality pure sine wave AC power
- With IP65 protection degree
- Up to 9 units can be connected in parallel.

Safety

- Comprehensive security from hardware to software
- Multiple safety approvals

User-friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

All-in-one

- Up to 350A charging current
- Supports lead-acid battery and li-ion battery

Intelligent

- Exclusive Li-ion battery BMS dual activation
- Time-slot function to save cost with peak-valley

Application

House | Farm | Telecom | Countryside | Island | Pasture

Model	SEI-8K-SPD	Adjustable
AC OUTPUT（LOAD）		
Rated Output Power	8000W	
Max. Peak Power	8800VA	
Rated Output Voltage	230Vac (single-phase) (200/208/220/240Vac configurable)	☒
Load Motor Capacity	4HP	
Rated Frequency	50/60Hz ± 0.3Hz	☒
Waveform	Pure sine wave	
Switch Time	10ms (Typical)	
AC OUTPUT（GRID）		
Rated Output Power	8000W	
Max. Apparent Power	8800VA	
Power Factor	0.8 leading to 0.8 lagging	
Rated Voltage	220/230Vac	
Rated AC Frequency	50/60Hz	
Rated Output Current	36.4Aac	
THD	<3%	
BATTERY		
Battery Type	Lithium-ion Battery / Lead-acid Battery / User-defined	☒
Rated Battery Voltage	48Vdc	
Battery Voltage Range	40-60Vdc	
Max. Grid Charging Current	160Adc	☒
Max. Generator Charging Current	160Adc	☒
Max. Hybrid Charging Current	190Adc	☒
PV INPUT		
No. of MPPT Trackers	2	
Max. PV Input Power	8000W+8000W	
Max. PV Input Current	32A/32A	
Max. Short Circuit Current	40A/40A	
Max. Open Circuit Voltage	600Vdc	
MPPT Voltage Range	120V～500Vdc	
GRID/GENERATOR INPUT		
Input Voltage Range	90V～280Vac	
Input Frequency Range	50/60Hz	
Bypass Overload Current	50Aac	
EFFICIENCY		
MPPT Tracking Efficiency	99.9%	
Max. Efficiency	97.5%	
European Efficiency	97%	

GENERAL DATA			
Parallel Capacity	1～6 Units		
Dimensions	365×631.5×263mm	Humidity Range	0～100%
Weight	33kg	Cooling Method	Heat sink + intelligent fan cooling
Protection Level	IP65	Noise	<60dB
Temperature	-25 to +60℃, >45℃ Derate	Communication Port	RS485 / CAN / USB / Dry contact
Warranty	5 years	External Module	WIFI / 4G Stick
Certificate	EN50549-1,G99,NRS-097,VDE-ARN-4105,CEI021,UNE217002, IEC62109-1, IEC62109-2, EN61000-6-1, EN61000-6-3, FCC 15 class B, RoHS		
PROTECTION			
PV Reverse Protection	Yes	Anti-Islanding Protection	Yes
Residual-Current Monitoring	Yes	Insulation Resistance Monitoring	Yes
Output Short-Circuit Protection	Yes	Output Over-Current Protection	Yes
Over-Voltage Protection	DC type II/AC type III	Surge Protection	DC type II/AC type II





SUN-3K-SG04LP1-24-EU
SUN-3/3.6/5/6K-SG04LP1-EU

Product Highlights

- Colorful touch LCD, IP65 protection degree
- AC couple to retrofit existing solar system
- 16 — Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 140 — Max. charging/discharging current of 140A
- 6 — 6 time periods for battery charging/discharging
- Support storing energy from diesel generator

Application

House | Farm | Telecom | Countryside | Island | Pasture

Technical Data

Model	SUN-3K -SG04LP1-24-EU	SUN-3K -SG04LP1-EU	SUN-3.6K -SG04LP1-EU	SUN-5K -SG04LP1-EU	SUN-6K -SG04LP1-EU
Battery Input Data					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range (V)	20-30	40-60	40-60	40-60	40-60
Max. Charging Current (A)	140	70	90	120	135
Max. Discharging Current (A)	140	70	90	120	135
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
Number of Battery Input	1				
PV String Input Data					
Max. PV Access Power (W)	6000	6000	7200	10000	12000
Max. PV Input Power (W)	4800	4800	5760	8000	9600
Max. PV Input Voltage (V)	500				
Start-up Voltage (V)	125				
MPPT Voltage Range (V)	150-425				
Rated PV Input Voltage (V)	370				
Max. Operating PV Input Current (A)	18		18+18		
Max. Input Short-Circuit Current (A)	27		27+27		
No. of MPP Trackers/ No. of Strings MPP Tracker	1/1		2/1+1		
AC Input/Output Data					
Rated AC Input/Output Active Power (W)	3000		3600	5000	6000
Max. AC Input/Output Apparent Power (VA)	3300		3960	5500	6600
Rated AC Input/Output Current (A)	13.6/13		16.4/15.7	22.7/21.7	27.3/26.1
Max. AC Input/Output Current (A)	15/14.3		18/17.2	25/23.9	30/28.7
Max. Continuous AC Passthrough (grid to load) (A)	35				40
Peak Power (off-grid) (W)	2 times of rated power, 10s				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Rated Input/Output Voltage/Range (V)	220/230 0.85Un-1.1Un				
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55 , 60/55-65				
Grid Connection Form	L+N+PE				
Total Current Harmonic Distortion THDi	<3% (of nominal power)				
DC Injection Current	<0.5% In				
Efficiency					
Max. Efficiency	97.6%				
Euro Efficiency	96.5%				
MPPT Efficiency	>99%				
Equipment Protection					
Integrated	DC Polarity Reverse Connection Protection , AC Output Overcurrent Protection , Thermal Protection, AC Output Overvoltage Protection , AC Output Short Circuit Protection , DC Component Monitoring , Overvoltage Load Drop Protection , Ground Fault Current Monitoring , Arc Fault Circuit Interrupter (optional) , Power Network Monitoring , Island Protection Monitoring , Earth Fault Detection , DC Input Switch , DC Terminal Insulation Impedance Monitoring , Residual Current (RCD) Detection , Surge protection level				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
Interface					
Communication Interface	RS485/RS232/CAN				
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)				
General Data					
Operating Temperature Range (• •)	-40 to +60 ℃ , >45℃ Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	2000m				
Noise (dB)	<30				
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet Size (WxHxD mm)	330×433×229 (Excluding Connectors and Brackets)				
Weight (kg)	17				
Type of Cooling	Natural Cooling				Intelligent Air Cooling
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inve rter, More Info Please Refer to Warranty Policy				
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G98, G99, VDE-AR-N 4105				
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				





SUN-3K-SG04LP1-24-EU-SM1
SUN-3K-SG04LP1-EU-SM1
SUN-3.6/5/6K-SG04LP1-EU-SM2

Product Highlights

- Colorful touch LCD, IP65 protection degree
- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- Max. charging/discharging current of 140A
- 6 time periods for battery charging/discharging
- Support storing energy from diesel generator

Application

House | Farm | Telecom | Countryside | Island | Pasture

Technical Data

Model	SUN-3K-SG04LP1 -24-EU-SM1	SUN-3K-SG04LP1 -EU-SM1	SUN-3.6K-SG04LP1 -EU-SM2	SUN-5K-SG04LP1 -EU-SM2	SUN-6K-SG04LP1 -EU-SM2
Battery Input Data					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range (V)	20-30	40-60	40-60	40-60	40-60
Max. Charging Current (A)	140	70	90	120	135
Max. Discharging Current (A)	140	70	90	120	135
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
Number of Battery Input	1				
PV String Input Data					
Max. PV Access Power (W)	6000	6000	7200	10000	12000
Max. PV Input Power (W)	4800	4800	5760	8000	9600
Max. PV Input Voltage (V)	500				
Start-up Voltage (V)	125				
MPPT Voltage Range (V)	150-425				
Rated PV Input Voltage (V)	370				
Max. Operating PV Input Current (A)	18		18+18		
Max. Input Short-Circuit Current (A)	27		27+27		
No. of MPP Trackers/ No. of Strings MPP Tracker	1/1		2/1+1		
AC Input/Output Data					
Rated AC Input/Output Active Power (W)	3000		3600	5000	6000
Max. AC Input/Output Apparent Power (VA)	3300		3960	5500	6600
Rated AC Input/Output Current (A)	13.7/13.1		16.4/15.7	22.8/21.8	27.3/26.1
Max. AC Input/Output Current (A)	15/14.4		18/17.3	25/24	30/28.7
Max. Continuous AC Passthrough (grid to load) (A)	35				40
Peak Power (off-grid) (W)	2 times of rated power, 10s				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Rated Input/Output Voltage/Range (V)	220/230 0.85Un-1.1Un				
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55 , 60/55-65				
Grid Connection Form	L+N+PE				
Total Current Harmonic Distortion THDi	<3% (of nominal power)				
DC Injection Current	<0.5% In				
Efficiency					
Max. Efficiency	97.6%				
Euro Efficiency	96.5%				
MPPT Efficiency	>99%				
Equipment Protection					
Integrated	DC Polarity Reverse Connection Protection , AC Output Overcurrent Protection , Thermal Protection , AC Output Overvoltage Protection , AC Output Short Circuit Protection , DC Component Monitoring , Overvoltage Load Drop Protection , Ground Fault Current Monitoring , Arc Fault Circuit Interrupter (optional) , Power Network Monitoring , Island Protection Monitoring , Earth Fault Detection , DC Input Switch , DC Terminal Insulation Impedance Monitoring , Residual Current (RCD) Detection , Surge protection level				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
Interface					
Communication Interface	RS485/RS232/CAN				
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)				
General Data					
Operating Temperature Range (• •)	-40 to +60℃, >45℃ Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	2000m				
Noise (dB)	<30				
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet Size (WxHxD mm)	376×470×241.5 (Excluding Connectors and Brackets)				
Weight (kg)	17.6			19	
Type of Cooling	Natural Cooling				
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy				
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G98, G99, VDE-AR-N 4105				
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				



SUN-3.6/5/6/7/7.6/8/10K-SG05LP1-EU

Product Highlights

- Colorful touch LCD, IP65 protection degree
- AC couple to retrofit existing solar system
- 16 — Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 210 — Max. charging/discharging current of 210A
- 6 — 6 time periods for battery charging/discharging
- Support storing energy from diesel generator

Application

House | Farm | Telecom | Countryside | Island | Pasture

Technical Data

Model	SUN-3.6K-SG05 LP1-EU	SUN-5K-SG05 LP1-EU	SUN-6K-SG05 LP1-EU	SUN-7K-SG05 LP1-EU	SUN-7.6K-SG05 LP1-EU	SUN-8K-SG05 LP1-EU	SUN-10K-SG05 LP1-EU
Battery Input Data							
Battery Type	Lead-acid or Lithium-ion						
Battery Voltage Range (V)	40-60						
Max. Charging Current (A)	90	120	135	175	190	190	210
Max. Discharging Current (A)	90	120	135	175	190	190	210
Charging Strategy for Li-ion Battery	Self-adaption to BMS						
Number of Battery Input	1						
PV String Input Data							
Max. PV Access Power (W)	7200	10000	12000	14000	15200	16000	20000
Max. PV Input Power (W)	5760	8000	9600	11200	12160	12800	16000
Max. PV Input Voltage (V)	500						
Start-up Voltage (V)	125						
MPPT Voltage Range (V)	150-425						
Rated PV Input Voltage (V)	370						
Max. Operating PV Input Current (A)	13+13			26+26			
Max. Input Short-Circuit Current (A)	17+17			34+34			
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1+1			2/2+2			
AC Input/Output Data							
Rated AC Input/Output Active Power (W)	3600	5000	6000	7000	7600	8000	10000
Max. AC Input/Output Apparent Power (VA)	3960	5500	6600	7700	8360	8800	11000
Rated AC Input/Output Current (A)	16.4/15.7	22.7/21.7	27.3/26.1	31.9/30.5	34.5/33	36.4/34.8	45.5/43.5
Max. AC Input/Output Current (A)	18/17.2	25/23.9	30/28.7	35/33.5	38/36.3	40/38.3	50/47.9
Max. Continuous AC Passthrough (grid to load) (A)	35		40	50			
Peak Power (off-grid) (W)	2 times of rated power, 10s						
Power Factor Adjustment Range	0.8 leading to 0.8 lagging						
Rated Input/Output Voltage/Range (V)	220/230 0.85Un-1.1Un						
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55 , 60/55-65						
Grid Connection Form	L+N+PE						
Total Current Harmonic Distortion THDi	<3% (of nominal power)						
DC Injection Current	<0.5% In						
Efficiency							
Max. Efficiency	97.6%						
Euro Efficiency	96.5%						
MPPT Efficiency	>99%						
Equipment Protection							
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level						
Surge Protection Level	TYPE II(DC), TYPE II(AC)						
Interface							
Communication Interface	RS485/RS232/CAN						
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)						
General Data							
Operating Temperature Range (• •)	-40 to +60°C , >45 °C Derating						
Permissible Ambient Humidity	0-100%						
Permissible Altitude	2000m						
Noise (dB)	<30						
Ingress Protection(IP) Rating	IP 65						
Inverter Topology	Non-Isolated						
Over Voltage Category	OVC II(DC), OVC III(AC)						
Cabinet Size (WxHxD mm)	330×580×232 (Excluding Connectors and Brackets)						
Weight (kg)	24.9						
Type of Cooling	Intelligent Air Cooling						
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy						
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G98, G99, VDE-AR-N 4105						
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2						



SUN-3.6/5/6/7/7.6/8/10K-SG05LP1-EU-AM2-P

Product Highlights

- Colorful touch LCD, IP65 protection degree
- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- Max. charging/discharging current of 210A
- 6 time periods for battery charging/discharging
- Support storing energy from diesel generator

Application

House | Farm | Telecom | Countryside | Island | Pasture

Technical Data

Model	SUN-3.6K-SG05 LP1-EU -AM2-P	SUN-5K-SG05 LP1-EU -AM2-P	SUN-6K-SG05 LP1-EU -AM2-P	SUN-7K-SG05 LP1-EU -AM2-P	SUN-7.6K-SG05 LP1-EU -AM2-P	SUN-8K-SG05 LP1-EU -AM2-P	SUN-10K-SG05 LP1-EU -AM2-P
Battery Input Data							
Battery Type	Lead-acid or Lithium-ion						
Battery Voltage Range (V)	40-60						
Max. Charging Current (A)	90	120	135	175	190	190	210
Max. Discharging Current (A)	90	120	135	175	190	190	210
Charging Strategy for Li-ion Battery	Self-adaption to BMS						
Number of Battery Input	1						
PV String Input Data							
Max. PV Access Power (W)	7200	10000	12000	14000	15200	16000	20000
Max. PV Input Power (W)	5760	8000	9600	11200	12160	12800	16000
Max. PV Input Voltage (V)	500						
Start-up Voltage (V)	125						
MPPT Voltage Range (V)	150-425						
Rated PV Input Voltage (V)	370						
Max. Operating PV Input Current (A)	18+18			32+32			
Max. Input Short-Circuit Current (A)	27+27			48+48			
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1+1			2/2+2			
AC Input/Output Data							
Rated AC Input/Output Active Power (W)	3600	5000	6000	7000	7600	8000	10000
Max. AC Input/Output Apparent Power (VA)	3960	5500	6600	7700	8360	8800	11000
Rated AC Input/Output Current (A)	16.4/15.7	22.7/21.7	27.3/26.1	31.9/30.5	34.5/33	36.4/34.8	45.5/43.5
Max. AC Input/Output Current (A)	18/17.2	25/23.9	30/28.7	35/33.5	38/36.3	40/38.3	50/47.9
Max. Continuous AC Passthrough (grid to load) (A)	35		40	50			
Peak Power (off-grid) (W)	2 times of rated power, 10s						
Power Factor Adjustment Range	0.8 leading to 0.8 lagging						
Rated Input/Output Voltage/Range (V)	220/230 0.85Un-1.1Un						
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55 , 60/55-65						
Grid Connection Form	L+N+PE						
Total Current Harmonic Distortion THDi	<3% (of nominal power)						
DC Injection Current	<0.5% In						
Efficiency							
Max. Efficiency	97.6%						
Euro Efficiency	96.5%						
MPPT Efficiency	>99%						
Equipment Protection							
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level						
Surge Protection Level	TYPE II(DC), TYPE II(AC)						
Interface							
Communication Interface	RS485/RS232/CAN						
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)						
General Data							
Operating Temperature Range (• •)	-40 to +60 ℃, >45 ℃ Derating						
Permissible Ambient Humidity	0-100%						
Permissible Altitude	2000m						
Noise (dB)	<30						
Ingress Protection(IP) Rating	IP 65						
Inverter Topology	Non-Isolated						
Over Voltage Category	OVC II(DC), OVC III(AC)						
Cabinet Size (WxHxD mm)	330×580×232(Excluding Connectors and Brackets)						
Weight (kg)	24.9						
Type of Cooling	Intelligent Air Cooling						
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy						
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G98, G99, VDE-AR-N 4105						
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2						





SUN-7/7.6/8/10K-SG05LP1-EU-SM2

Product Highlights

- Colorful touch LCD, IP65 protection degree
- AC couple to retrofit existing solar system
- 16 — Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 210 — Max. charging/discharging current of 210A
- 6 — 6 time periods for battery charging/discharging
- Support storing energy from diesel generator

Application

House | Farm | Telecom | Countryside | Island | Pasture

Technical Data

Model	SUN-7K-SG05LP1 -EU -SM2	SUN-7.6K-SG05LP1 -EU -SM2	SUN-8K-SG05LP1 -EU -SM2	SUN-10K-SG05LP1 -EU -SM2
Battery Input Data				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40-60			
Max. Charging Current (A)	175	190	190	210
Max. Discharging Current (A)	175	190	190	210
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
Number of Battery Input	1			
PV String Input Data				
Max. PV Access Power (W)	14000	15200	16000	20000
Max. PV Input Power (W)	11200	12160	12800	16000
Max. PV Input Voltage (V)	500			
Start-up Voltage (V)	125			
MPPT Voltage Range (V)	150-425			
Rated PV Input Voltage (V)	370			
Max. Operating PV Input Current (A)	26+26			
Max. Input Short-Circuit Current (A)	34+34			
No. of MPP Trackers/ No. of Strings MPP Tracker	2/2+2			
AC Input/Output Data				
Rated AC Input/Output Active Power (W)	7000	7600	8000	10000
Max. AC Input/Output Apparent Power (VA)	7700	8360	8800	11000
Rated AC Input/Output Current (A)	31.9/30.5	34.6/33.1	36.4/34.8	45.5/43.5
Max. AC Input/Output Current (A)	35/33.5	38/36.4	40/38.3	50/47.9
Max. Continuous AC Passthrough (grid to load) (A)	50			
Peak Power (off-grid) (W)	2 times of rated power, 10s			
Power Factor Adjustment Range	0.8 leading to 0.8 lagging			
Rated Input/Output Voltage/Range (V)	220/230 0.85Un-1.1Un			
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55 , 60/55-65			
Grid Connection Form	L+N+PE			
Total Current Harmonic Distortion THDi	<3% (of nominal power)			
DC Injection Current	<0.5% In			
Efficiency				
Max. Efficiency	97.6%			
Euro Efficiency	96.5%			
MPPT Efficiency	>99%			
Equipment Protection				
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Interface				
Communication Interface	RS485/RS232/CAN			
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)			
General Data				
Operating Temperature Range (• •)	-40 to +60℃ , >45℃ Derating			
Permissible Ambient Humidity	0-100%			
Permissible Altitude	2000m			
Noise (dB)	<30			
Ingress Protection(IP) Rating	IP 65			
Inverter Topology	Non-Isolated			
Over Voltage Category	OVC II(DC), OVC III(AC)			
Cabinet Size (WxHxD mm)	366×589.5×237 (Excluding Connectors and Brackets)			
Weight (kg)	26.8			
Type of Cooling	Intelligent Air Cooling			
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy			
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105			
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			



SUN-7/7.6/8/10K-SG05LP1-EU-SM2

Product Highlights

- Colorful touch LCD, IP65 protection degree
- AC couple to retrofit existing solar system
- 16 — Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 210 — Max. charging/discharging current of 210A
- 6 — 6 time periods for battery charging/discharging
- Support storing energy from diesel generator

Application

House | Farm | Telecom | Countryside | Island | Pasture

Technical Data

Model	SUN-3.6K-SG05 LP1-EU -SM2-P	SUN-5K-SG05 LP1-EU -SM2-P	SUN-6K-SG05 LP1-EU -SM2-P	SUN-7K-SG05 LP1-EU -SM2-P	SUN-7.6K-SG05 LP1-EU -SM2-P	SUN-8K-SG05 LP1-EU -SM2-P	SUN-10K-SG05 LP1-EU -SM2-P
Battery Input Data							
Battery Type	Lead-acid or Lithium-ion						
Battery Voltage Range (V)	40-60						
Max. Charging Current (A)	90	120	135	175	190	190	210
Max. Discharging Current (A)	90	120	135	175	190	190	210
Charging Strategy for Li-ion Battery	Self-adaption to BMS						
Number of Battery Input	1						
PV String Input Data							
Max. PV Access Power (W)	7200	10000	12000	14000	15200	16000	20000
Max. PV Input Power (W)	5760	8000	9600	11200	12160	12800	16000
Max. PV Input Voltage (V)	500						
Start-up Voltage (V)	125						
MPPT Voltage Range (V)	150-425						
Rated PV Input Voltage (V)	370						
Max. Operating PV Input Current (A)	18+18			32+32			
Max. Input Short-Circuit Current (A)	27+27			48+48			
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1+1			2/2+2			
AC Input/Output Data							
Rated AC Input/Output Active Power (W)	3600	5000	6000	7000	7600	8000	10000
Max. AC Input/Output Apparent Power (VA)	3960	5500	6600	7700	8360	8800	11000
Rated AC Input/Output Current (A)	16.4/15.7	22.8/21.8	27.3/26.1	31.9/30.5	34.6/33.1	36.4/34.8	45.5/43.5
Max. AC Input/Output Current (A)	18/17.3	25/24	30/28.7	35/33.5	38/36.4	40/38.3	50/47.9
Max. Continuous AC Passthrough (grid to load) (A)	35		40	50			
Peak Power (off-grid) (W)	2 times of rated power, 10s						
Power Factor Adjustment Range	0.8 leading to 0.8 lagging						
Rated Input/Output Voltage/Range (V)	220/230 0.85Un-1.1Un						
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55 ,60/55-65						
Grid Connection Form	L+N+PE						
Total Current Harmonic Distortion THDi	<3% (of nominal power)						
DC Injection Current	<0.5% In						
Efficiency							
Max. Efficiency	97.6%						
Euro Efficiency	96.5%						
MPPT Efficiency	>99%						
Equipment Protection							
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level						
Surge Protection Level	TYPE II(DC), TYPE II(AC)						
Interface							
Communication Interface	RS485/RS232/CAN						
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)						
General Data							
Operating Temperature Range (• •)	-40 to +60 ℃, >45 ℃ Derating						
Permissible Ambient Humidity	0-100%						
Permissible Altitude	2000m						
Noise (dB)	<30						
Ingress Protection(IP) Rating	IP 65						
Inverter Topology	Non-Isolated						
Over Voltage Category	OVC II(DC), OVC III(AC)						
Cabinet Size (WxHxD mm)	366×589.5×237 (Excluding Connectors and Brackets)						
Weight (kg)	26.8						
Type of Cooling	Intelligent Air Cooling						
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy						
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G98, G99, VDE-AR-N 4105						
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2						





SUN-5/6/7.6/8K-SG01LP1-US

Product Highlights

- Colorful touch LCD, IP65 protection degree
- AC couple to retrofit existing solar system
- 16 — Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 190 — Max. charging/discharging current of 190A
- 6 — 6 time periods for battery charging/discharging
- Support storing energy from diesel generator

Application

House | Farm | Telecom | Countryside | Island | Pasture

Technical Data

Model	SUN-5K -SG01LP1-US	SUN-6K -SG01LP1-US	SUN-7.6K -SG01LP1-US	SUN-8K -SG01LP1-US
Battery Input Data				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40-60			
Max. Charging Current (A)	120	135	190	190
Max. Discharging Current (A)	120	135	190	190
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
Number of Battery Input	1			
PV String Input Data				
Max. PV Input Power (W)	6500	7800	9880	10400
Max. PV Input Voltage (V)	500			
Start-up Voltage (V)	125			
MPPT Voltage Range (V)	150-425			
Rated PV Input Voltage (V)	370			
Max. Operating PV Input Current (A)	13+13	26+13	26+26	
Max. Input Short-Circuit Current (A)	22+22	44+22	44+44	
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1+1	2/2+1	2/2+2	
AC Input/Output Data				
Rated AC Input/Output Active Power (W)	5000	6000	7600	8000
Max. AC Input/Output Apparent Power (VA)	5500	6600	8360	8800
Rated AC Input/Output Current (A)	20.8	25	31.7	33.3
Max. AC Input/Output Current (A)	22.9	27.5	34.8	36.7
Max. Continuous AC Passthrough (grid to load) (A)	40		50	
Peak Power (off-grid) (W)	2 times of rated power, 10s			
Power Factor Adjustment Range	0.9-1			
Rated Input/Output Voltage/Range (V)	120/240; 208 0.88Un < U < 1.1Un			
Rated Input/Output Grid Frequency/Range(Hz)	60/55-65			
Grid Connection Form	2L+N+PE			
Total Current Harmonic Distortion THDi	<3% (of nominal power)			
DC Injection Current	<0.5% In			
Efficiency				
Max. Efficiency	97.6%			
Euro Efficiency	96.5%			
MPPT Efficiency	>99%			
Equipment Protection				
Integrated	DC Polarity Reverse Connection Protection , AC Output Overcurrent Protection , Thermal Protection , AC Output Overvoltage Protection , AC Output Short Circuit Protection , DC Component Monitoring , Overvoltage Load Drop Protection , Ground Fault Current Monitoring , Arc Fault Circuit Interrupter(optional) , Power Network Monitoring , Island Protection Monitoring , Earth Fault Detection , DC Input Switch , DC Terminal Insulation Impedance Monitoring , Residual Current (RCD) Detection , Surge protection level			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Interface				
Communication Interface	RS485/RS232/CAN			
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)			
General Data				
Operating Temperature Range (• •)	-40 to +60℃, >45℃ Derating			
Permissible Ambient Humidity	0-100%			
Permissible Altitude	2000m			
Noise (dB)	<30			
Ingress Protection(IP) Rating	TYPE3R			
Inverter Topology	Non-Isolated			
Over Voltage Category	OVC II(DC), OVC III(AC)			
Cabinet Size (WxHxD mm)	420×670×233 (Excluding Connectors and Brackets)			
Weight (kg)	30			
Type of Cooling	Intelligent Air Cooling			
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy			
Grid Regulation	EN 50549, UNE 217002, NRS 097, IEEE 1547.1, SRD V2.0			
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2, UL 1741			



SUN-5/6/7.6/8K-SG01LP1-US

Product Highlights

- Colorful touch LCD, IP65 protection degree
- AC couple to retrofit existing solar system
- 16 — Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 190 — Max. charging/discharging current of 190A
- 6 — 6 time periods for battery charging/discharging
- Support storing energy from diesel generator

Application

House | Farm | Telecom | Countryside | Island | Pasture

Technical Data

Model	SUN-5K-SG02 LP2-US-AM2	SUN-6K-SG02 LP2-US-AM2	SUN-7.6K-SG02 LP2-US-AM2	SUN-8K-SG02 LP2-US-AM2	SUN-10K-SG02 LP2-US-AM3	SUN-12K-SG02 LP2-US-AM3
Battery Input Data						
Battery Type	Lead-acid or Lithium-ion					
Battery Voltage Range (V)	40-60					
Max. Charging Current (A)	120	135	190	190	220	250
Max. Discharging Current (A)	120	135	190	190	220	250
Charging Strategy for Li-ion Battery	Self-adaption to BMS					
Number of Battery Input	1					
PV String Input Data						
Max. PV Input Power (W)	7500	9000	11400	12000	15000	18000
Max. PV Input Voltage (V)	500					
Start-up Voltage (V)	125					
MPPT Voltage Range (V)	150-425					
Rated PV Input Voltage (V)	370					
Max. Operating PV Input Current (A)	20+20		26+26		26+26+26	
Max. Input Short-Circuit Current (A)	44+44		44+44		44+44+44	
No. of MPP Trackers/ No. of Strings MPP Tracker	2/2+2				3/2+2+2	
AC Input/Output Data						
Rated AC Input/Output Active Power (W)	5000	6000	7600	8000	10000	12000
Max. AC Input/Output Apparent Power (VA)	5000	6000	7600	8000	10000	12000
Rated AC Input/Output Current (A)	20.9	25	31.7	33.4	41.7	50
Max. AC Input/Output Current (A)	20.9	25	31.7	33.4	41.7	50
Max. Continuous AC Passthrough (grid to load) (A)	35	40	50		60	
Peak Power (off-grid) (W)	2 times of rated power, 10s					
Power Factor Adjustment Range	0.9-1					
Rated Input/Output Voltage/Range (V)	120/240; 208 0.88Un ＜U＜1.1Un					
Rated Input/Output Grid Frequency/Range(Hz)	60/55-65					
Grid Connection Form	2L+N+PE					
Total Current Harmonic Distortion THDi	<3% (of nominal power)					
DC Injection Current	<0.5% In					
Efficiency						
Max. Efficiency	97.6%					
Euro Efficiency	96.5%					
MPPT Efficiency	>99%					
Equipment Protection						
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level					
Surge Protection Level	TYPE II(DC), TYPE II(AC)					
Interface						
Communication Interface	RS485/RS232/CAN					
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)					
General Data						
Operating Temperature Range (• •)	-40 to +60 ℃, >45 ℃ Derating					
Permissible Ambient Humidity	0-100%					
Permissible Altitude	2000m					
Noise (dB)	<45					
Ingress Protection(IP) Rating	TYPE 3R					
Inverter Topology	Non-Isolated					
Over Voltage Category	OVC II(DC), OVC III(AC)					
Cabinet Size (WxHxD mm)	420×670×233 (Excluding Connectors and Brackets)					
Weight (kg)	35.6					
Type of Cooling	Intelligent Air Cooling					
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy					
Grid Regulation	IEEE 1547.1, SRD V2.0					
Safety / EMC Standard	FCC, UL 1741					





SUN-7.6/8K-SG02LP1-EU-AM2
SUN-10/12K-SG02LP1-EU-AM3

Product Highlights

- Colorful touch LCD, IP65 protection degree
- AC couple to retrofit existing solar system
- 16 — Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 250 — Max. charging/discharging current of 250A
- 6 — 6 time periods for battery charging/discharging
- Support storing energy from diesel generator

Application

House | Farm | Telecom | Countryside | Island | Pasture

Technical Data

Model	SUN-7.6K-SG02 LP1-EU-AM2	SUN-8K-SG02 LP1-EU-AM2	SUN-10K-SG02 LP1-EU-AM3	SUN-12K-SG02 LP1-EU-AM3
Battery Input Data				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40-60			
Max. Charging Current (A)	190	190	220	250
Max. Discharging Current (A)	190	190	220	250
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
Number of Battery Input	1			
PV String Input Data				
Max. PV Access Power (W)	15200	16000	20000	24000
Max. PV Input Power (W)	12160	12800	16000	19200
Max. PV Input Voltage (V)	500			
Start-up Voltage (V)	125			
MPPT Voltage Range (V)	150-425			
Rated PV Input Voltage (V)	370			
Max. Operating PV Input Current (A)	26+26		26+26+26	
Max. Input Short-Circuit Current (A)	44+44		44+44+44	
No. of MPP Trackers/ No. of Strings MPP Tracker	2/2+2		3/2+2+2	
AC Input/Output Data				
Rated AC Input/Output Active Power (W)	7600	8000	10000	12000
Max. AC Input/Output Apparent Power (VA)	8360	8800	11000	13200
Rated AC Input/Output Current (A)	34.6/33.1	36.4/34.8	45.5/43.5	54.6/52.2
Max. AC Input/Output Current (A)	38/36.4	40/38.3	50/47.9	60/57.4
Max. Continuous AC Passthrough (grid to load) (A)	50		60	
Peak Power (off-grid) (W)	2 times of rated power, 10s			
Power Factor Adjustment Range	0.8 leading to 0.8 lagging			
Rated Input/Output Voltage/Range (V)	220/230 0.85Un-1.1Un			
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55 , 60/55-65			
Grid Connection Form	L+N+PE			
Total Current Harmonic Distortion THDi	<3% (of nominal power)			
DC Injection Current	<0.5% In			
Efficiency				
Max. Efficiency	97.6%			
Euro Efficiency	96.5%			
MPPT Efficiency	>99%			
Equipment Protection				
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Interface				
Communication Interface	RS485/RS232/CAN			
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)			
General Data				
Operating Temperature Range (• •)	-40 to +60℃, >45℃ Derating			
Permissible Ambient Humidity	0-100%			
Permissible Altitude	2000m			
Noise (dB)	<45			
Ingress Protection(IP) Rating	IP 65			
Inverter Topology	Non-Isolated			
Over Voltage Category	OVC II(DC), OVC III(AC)			
Cabinet Size (WxHxD mm)	420×670×233 (Excluding Connectors and Brackets)			
Weight (kg)	35.6			
Type of Cooling	Intelligent Air Cooling			
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy			
Grid Regulation	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1 , G98, G99, C10-11, UNE217002, NBR16149/NBR16150			
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			





SUN-7.6/8K-SG02LP1-EU-AM2-P
SUN-10/12K-SG02LP1-EU-AM3-P

Product Highlights

- Colorful touch LCD, IP65 protection degree
- AC couple to retrofit existing solar system
- 16 — Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 250 — Max. charging/discharging current of 250A
- 6 — 6 time periods for battery charging/discharging
- Support storing energy from diesel generator

Application

House | Farm | Telecom | Countryside | Island | Pasture

Technical Data

Model	SUN-7.6K-SG02 LP1-EU-AM2-P	SUN-8K-SG02 LP1-EU-AM2-P	SUN-10K-SG02 LP1-EU-AM3-P	SUN-12K-SG02 LP1-EU-AM3-P
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40-60			
Max. Charging Current (A)	190	190	220	250
Max. Discharging Current (A)	190	190	220	250
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
Number of Battery Input	1			
PV String Input Data				
Max. PV Access Power (W)	15200	16000	20000	24000
Max. PV Input Power (W)	12160	12800	16000	19200
Max. PV Input Voltage (V)	500			
Start-up Voltage (V)	125			
MPPT Voltage Range (V)	150-425			
Rated PV Input Voltage (V)	370			
Max. Operating PV Input Current (A)	32+32		32+32+32	
Max. Input Short-Circuit Current (A)	60+60		60+60+60	
No. of MPP Trackers/ No. of Strings MPP Tracker	2/2+2		3/2+2+2	
AC Input/Output Data				
Rated AC Input/Output Active Power (W)	7600	8000	10000	12000
Max. AC Input/Output Apparent Power (VA)	8360	8800	11000	13200
Rated AC Input/Output Current (A)	34.6/33.1	36.4/34.8	45.5/43.5	54.6/52.2
Max. AC Input/Output Current (A)	38/36.4	40/38.3	50/47.9	60/57.4
Max. Continuous AC Passthrough (grid to load) (A)	50		60	
Peak Power (off-grid) (W)	2 times of rated power, 10s			
Power Factor Adjustment Range	0.8 leading to 0.8 lagging			
Rated Input/Output Voltage/Range (V)	220/230 0.85Un-1.1Un			
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55 , 60/55-65			
Grid Connection Form	L+N+PE			
Total Current Harmonic Distortion THDi	<3% (of nominal power)			
DC Injection Current	<0.5% In			
	97.6%			
	96.5%			
	>99%			
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Overvoltage Load Drop Protection, Ground Fault Current Monitoring, Arc Fault Circuit Interrupter (optional), Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, DC Terminal Insulation Impedance Monitoring, Residual Current (RCD) Detection, Surge protection level			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Interface				
Communication Interface	RS485/RS232/CAN			
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)			
General Data				
Operating Temperature Range (• •)	-40 to +60 ℃, >45℃ Derating			
Permissible Ambient Humidity	0-100%			
Permissible Altitude	2000m			
Noise (dB)	<45			
Ingress Protection(IP) Rating	IP 65			
Inverter Topology	Non-Isolated			
Over Voltage Category	OVC II(DC), OVC III(AC)			
Cabinet Size (WxHxD mm)	420×670×233 (Excluding Connectors and Brackets)			
Weight (kg)	35.6			
Type of Cooling	Intelligent Air Cooling			
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy			
Grid Regulation	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150			
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			