



New Energy Solution Expert

SHENZHEN SMARTKEY POWER CO., LTD.



SHENZHEN SMARTKEY POWER CO., LTD.

Tel:0755-23194084 Website:www.skepower.com
Email:manager@skepower.com

Office:1B24F,Lefu Plaza,GuangmingAvenue, Guangming District,
Shenzhen City,GuangdongProvince, China.
Factory:SKIndustry park,No.185,Science &Technology Road,
DongkengTown,Dongguan City,GuangdongProvince, China.



COMPANY PROFILE

SHENZHEN SMARTKEY POWER CO., LTD.(SKE) is a national Hi-tech and SRUI(Specialized, Refined, Unique and Innovative) Enterprise in Shenzhen, providing one-stop power solution including R&D, OEM/ODM, Manufacturing and Service. Focus on Internet Energy and New energy, committed to providing high-performance power supply products and integrated solar energy storage solutions. With over decade, SKE is a leader in UPS (uninterruptible power supply), solar inverter, battery packs, micro module data room, storage system for residential and commercial & industrial etc., which are exported to more than 40 countries.



500

Founded in 2015
+ Employees

30000

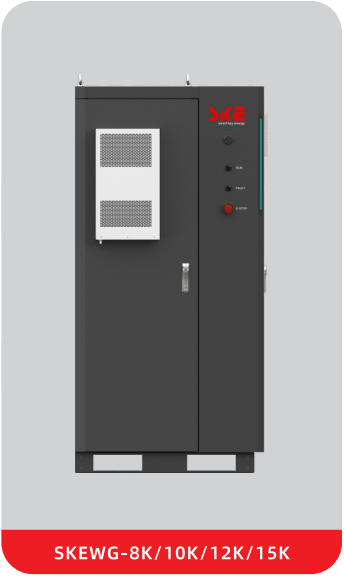
Manufacturing Center
sq meters

40+

Exporting to
Countries

2500+

Headquater
sq meters





Solar Energy Storage System

HYBRID SOLAR INVERTER

PH21 Series

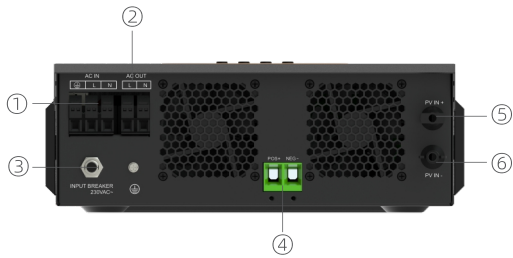


- Grid-tie with backup+Off-Grid
- Built-in MPPT solar charge controller
- Wide PV input voltage range 60-450 VDC
- Configurable AC/solar priority via LCD settings
Inverter can operate without battery(except PH-1.2K)
- Smart battery charging design optimizes battery life
- WiFi APP monitoring optional
- High efficiency
- BMS communication port

PH21-1.2K/3.6K/6.2K



Back panel descripton



- 1.AC input
- 2.AC output
- 3. Circuit breaker
- 4.Battery input
- 5.PV+ input
- 6.PV- input

Home Energy Storage System



Mode Name	PH21-1.2K	PH21-3.6K	PH21-6.2K
Battery input data			
Battery Type	Lithium battery or lead acid battery		
Rated battery voltage	12 VDC	24 VDC	48 VDC
Floating charging voltage	13.5 VDC	27 VDC	54 VDC
Overcharge protection voltage	14.6 VDC	29.2 VDC	58.4 VDC
Max. Charge/Discharge Current	60A	80A	80A
PV input data			
Maximum DC input power	2000W	4000W	6000W
Maximum DC input voltage	450 VDC	500 VDC	
MPPT Operating voltage range	25-400 VDC	35-450 VDC	60-450 VDC
Starting voltage	About 35 VDC	About 45 VDC	About 70 VDC
Maximum input current	11A	16A	18A
MPPT number	1	1	1
AC output parameters			
Rated output apparent power	1200W	3600W	6200W
Maximum output apparent power	>150%, 5s;110%-150% 10s		
Rated output voltage	220/230/240 Vac ± 5%		
Selectable voltage range	170-280VAC (UPS) 90-280VAC(APL)		
Rated output frequency	50Hz/60Hz (Auto sensing)		
Max output current	5.2A	15.6A	27.0A
Operate without battery	N/A	YES	YES
Solar and AC Charge			
Max solar charge current	60A	80A	
Max AC charge current	60A	80A	
Maximum charge current	60A	80A	
Efficiency			
Max efficiency (AC)	>99.0%(Full load with battery connect)		
Max efficiency (Battery)	92%	94%	
Physical			
Dimensions D*W*H(mm)	354*261*99	334*309*109	440*309*109
Package Size D*W*H(mm)	472*345*180	452*395*190	558*395*190
Net weight(kg)	5.7	7.3	9.6
Gross weight(kg)	6.7	8.3	10.6
Communication Interface	N/A	WIFI/RS485(BMS)	WIFI/RS485(BMS)
Environment			
Humidity	5% to 95% relative humidity (non-condensing)		
Operating temperature	-10°C ~55°C		
Storage temperature	-15°C ~60°C		
*Product specifications are subject to change without further notice			

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HYBRID SOLAR INVERTER

PH21 Series

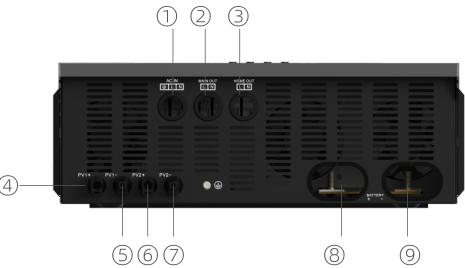


- Grid-tie with backup+Off-Grid
- Built-in MPPT solar charge controller
- Wide PV input voltage range 60-450 VDC
- Configurable AC/solar priority via LCD settings
- Inverter can operate without battery
- Smart battery charging design optimizes battery life
- WiFi APP monitoring optional
- High efficiency
- BMS communication port
- Dual AC output
- Dual MPPT

PH21-8.2K/10.2K



Back panel descripton



1. AC input (Ground/L/N)

2. AC output (Main critical load, support battery back-up discharge)

3. AC output (Non-critical load, AC grid bypass & the excess solar energy can be fed back from this port.)
4. PV1+ input

5. PV1- input

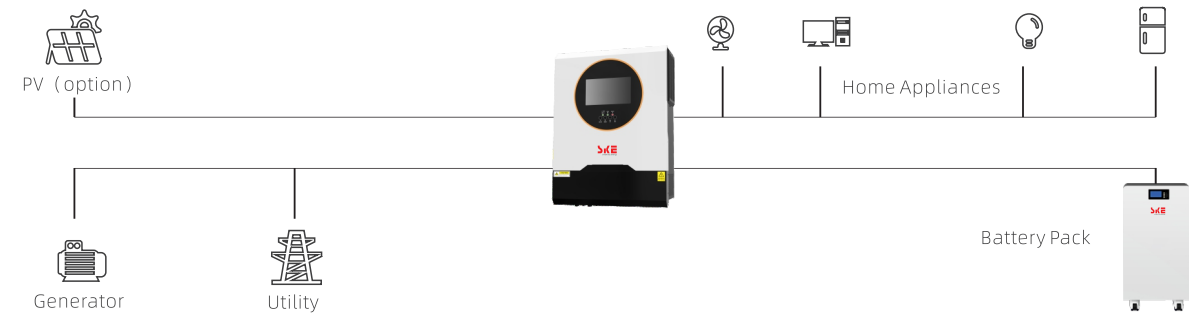
6. PV2+ input

7. PV2- input

8. Battery + Terminal

9. Battery - Terminal

Home Energy Storage System



Specification

Mode Name	PH21-8.2K		PH21-10.2K	
Battery input data				
Battery Type	Lithium battery or lead acid battery			
Rated battery voltage			48 VDC	
Floating charging voltage			54 VDC	
Overcharge protection voltage			58.4 VDC	
Max. Charge/Discharge Current			150A	
PV input data				
Maximum DC input power	5500W*2		6000W*2	
Maximum DC input voltage			500 VDC	
MPPT Operating voltage range			65-450 VDC	
Starting voltage			About 45 VDC	
Maximum input current			18A*2	
MPPT number			2	
AC output parameters				
Rated output apparent power	8200W		10200W	
Maximum output apparent power			>150%, 5s;110%-150% 10s	
Rated output voltage			220/230/240 Vac ± 5%	
Selectable voltage range			170-280VAC (UPS) 90-280VAC(APL)	
Rated output frequency			50Hz/60Hz (Auto sensing)	
Max output current	36A		44A	
Operate without battery	YES		YES	
Solar and AC Charge				
Max solar charge current			150A	
Max AC charge current			120A	
Maximum charge current			150A	
Efficiency				
Max efficiency (AC)			>99.0%(Full load.with battery connect)	
Max efficiency (Battery)			94%	
Physical				
Dimensions D*W*H(mm)			500*309*138	
Package Size D*W*H(mm)			620*492*263	
Net weight(kg)			18	
Gross weight(kg)			19	
Communication Interface			WIFI/RS485(BMS)	
Environment				
Humidity			5% to 95% relative humidity (non-condensing)	
Operating temperature			-10°C ~55°C	
Storage temperature			-15°C ~60°C	
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HYBRID SOLAR INVERTER

PH4200/6200

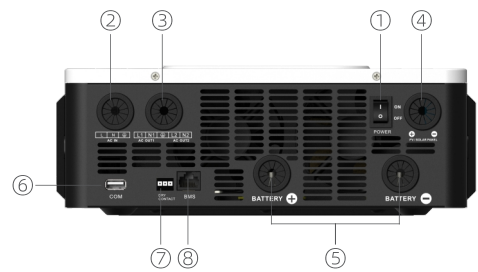


- Grid-tie with backup+Off-Grid
- Reliable quality, economical design
- Configurable AC/solar priority via LCD settings
- Built-in 80A MPPT solar charge controller
- Wide PV input voltage range 40-450 VDC
- Smart battery charging design to optimize battery life
- WiFi remote monitoring optional
- Dual AC output
- BMS communication port

PH4200/6200



Back panel description



- 1.Power On/Off Switch
- 2.AC input
- 3.Dual Ac Output
- 4. PV Terminals
- 5.Battery Terminals
- 6.WiFi/GPRS Communication Port
- 7.Dry Contact
- 8.BMS Communication Port (Support CAN/RS485 Protocol)

Home Energy Storage System



Mode Name	PH4200	PH6200
Battery input data		
Battery Type	Lithium battery or lead acid battery	
Rated battery voltage	24.0 VDC	48.0 VDC
Floating charging voltage	28.2 VDC	54.0 VDC
Overcharge protection voltage	30.5 VDC	60.4 VDC
Max. Charge/Discharge Current	100A	100A
PV input data		
Maximum DC input power	5500W	6000W
Maximum DC input voltage	500 VDC	
MPPT Operating voltage range	40-450 VDC	120-450 VDC
Starting voltage	40 VDC	120 VDC
Maximum input current	18A	
MPPT number	1	
AC output parameters		
Rated output apparent power	4200W	6200W
Maximum output apparent power	102%-110% ,1min; 110%-130%, 10s; 130%-150%, 3s ; >150% 200ms	
Rated output voltage	220/230/240 Vac ± 5%	
Selectable voltage range	90-280VAC	
Rated output frequency	50Hz/60Hz (Auto sensing)	
Max output current	15.6A	24A
Operate without battery	YES	YES
Solar and AC Charge		
Max solar charge current	100A	100A
Max AC charge current	100A	100A
Maximum charge current	100A	100A
Efficiency		
Max efficiency (AC)	>99.5%(Full load with battery connected)	
Max efficiency (Battery)	>92%@1KVA >92%@2KVA >90%@3KVA (Full load)	
Physical		
Dimensions D*W*H(mm)	422*282*94	464*314*115
Package Size D*W*H(mm)	502*362*184	530*413*208
Net weight(kg)	8.3	9.6
Gross weight(kg)	9.3	10.6
Communication Interface	RS232(WIFI)/RS485(BMS)	
Environment		
Humidity	5%~95%	
Operating temperature	-10°C~55°C	
Storage temperature	-15°C~60°C	
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HYBRID SOLAR INVERTER

PH6200PL

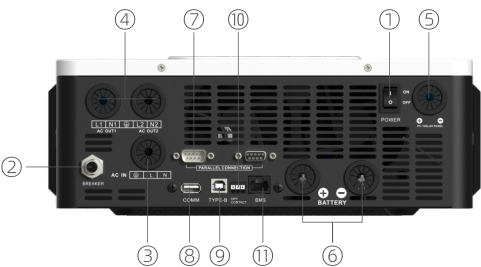


- Grid-tie with backup+Off-Grid
- Reliable quality, economical design
- Configurable AC/solar priority via LCD settings
- Built-in 80A MPPT solar charge controller
- PV input wide voltage range 120-450 VDC
- Smart battery charging design optimizes battery life
- WiFi remote monitoring optional
- Dual AC output
- Max.9 units in parallel connection

PH6200PL



Back panel description



- 1.Power On/Off Switch

2.Input Breaker

3.AC Input

4.Dual AC Output

5.PV Terminals

6.Battery Terminals
- 7.Parallel Communication Ports

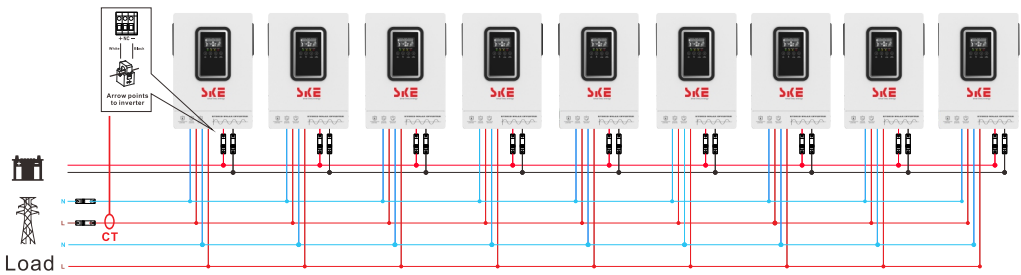
8.WiFi/GPRS Communication Port

9.USB Communication Port

10.Dry Contact

11.BMS Communication Port
(Support CAN/RS485 Protocol)

Max.9 Units in Parallel



Specification

Mode Name	PH6200PL
Battery input data	
Battery Type	Lithium battery or lead acid battery
Rated battery voltage	48.0 VDC
Floating charging voltage	54.0 VDC
Overcharge protection voltage	60.4 VDC
Max. Charge/Discharge Current	100A
PV input data	
Maximum DC input power	6000W
Maximum DC input voltage	500 VDC
MPPT Operating voltage range	120-450 VDC
Starting voltage	120 VDC
Maximum input current	18A
MPPT number	1
AC output parameters	
Rated output apparent power	6200W
Maximum output apparent power	102%-110% ,1min; 110%-130%, 10s; 130%-150%, 3s ; >150% 200ms
Rated output voltage	220/230/240 Vac ± 5%
Selectable voltage range	90-280VAC
Rated output frequency	50Hz/60Hz (Auto sensing)
Max output current	24A
Operate without battery	YES
Solar and AC Charge	
Max solar charge current	100A
Max AC charge current	100A
Maximum charge current	100A
Efficiency	
Max efficiency (AC)	>99.5%(Full load with battery connected)
Max efficiency (Battery)	>92%@1KVA >92%@2KVA >90%@3KVA (Full load)
Physical	
Dimensions D*W*H(mm)	464*314*115
Package Size D*W*H(mm)	530*413*208
Net weight(kg)	9.6
Gross weight(kg)	10.6
Communication Interface	RS232(WIFI)/RS485(BMS)
Environment	
Humidity	5%~95%
Operating temperature	-10°C~55°C
Storage temperature	-15°C~60°C
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ON/OFF-GRID SOLAR INVERTER

SKAT series Single-phase

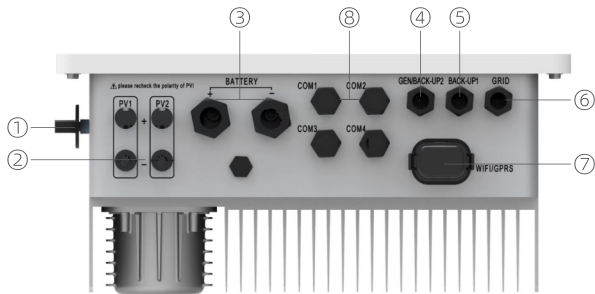


- IP66 design
- Up-to-36A maximum input current
- Off-grid peak power of 200% overload within 15 seconds
- Adaptable to 18A modules and able to match mainstream high current modules in the market
- 200% of photovoltaic over-proportion ratio for connecting more modules to ensure off-grid applications and fully charge battery
- Max.8 units in parallel connection

SKAT-3KS/4KS/6KS/8KS48P

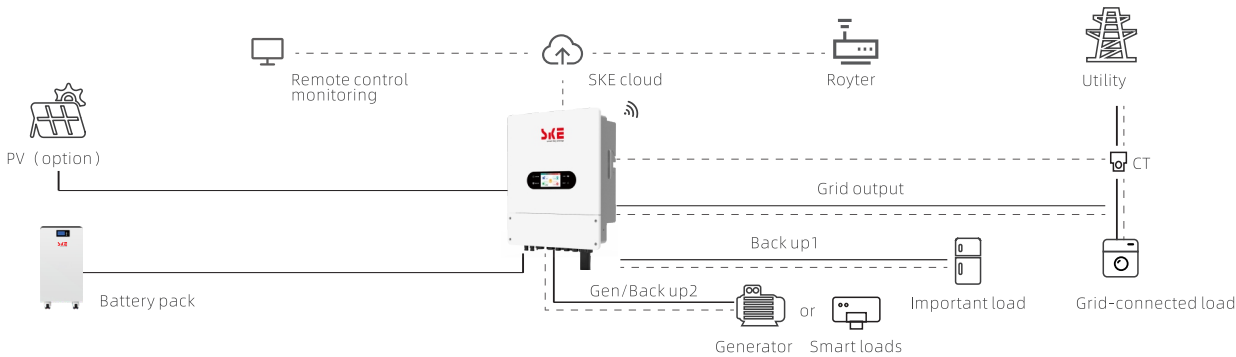


Back panel descripton



- 1.DC Switch(Optional)
- 2.PV Terminals
- 3.Battery Terminals
- 4.Gen Port
- 5.Back-Up
- 6.On-Grid
- 7.Wi-Fi Box/GPRS
- 8. Communication Port

Smart Energy Solutions



Specification

Modle Name	SKAT-3KS48P		SKAT-4KS48P		SKAT-6KS48P		SKAT-8KS48P	
Battery input data								
Battery Type	Lithium or lead acid battery							
Rated battery voltage	48V							
Maximum charging voltage	≤60 (Configurable)							
Maximum charge/discharge current	75A		100A		120A		190A	
PV input data								
Maximum DC input power	6kW		8kW		12kW		16000W	
Maximum DC input voltage	500 VDC							
MPPT Operating voltage range	150~450 VDC							
Starting voltage	125 VDC							
Maximum input current	18A		18/18A		18/18A		30/18A	
MPPT number	1		2		2		2	
AC output parameters (On-Grid)								
Maximum output apparent power	3300W		4400W		6000W		8800W	
Rated output voltage	220/230V							
Rated output frequency	50/60Hz							
Max output current	15A		20A		27A		40A	
Output power factor	1 (-0.8 leading~+0.8 lagging)							
AC output parameters(Off-Grid)								
Rated output apparent power	3000W		4000W		6000W		8000W	
Maximum output apparent power	>200%,15sec							
Rated output voltage	230V							
Rated output frequency	50/60Hz							
Max output current	14A		18A		27A		40A	
Efficiency								
Max efficiency (AC)	97.6%							
Max efficiency (Battery)	94.5%							
Europe efficiency	97%							
Protection								
PV input reverse polarity protection	Yes							
PV insulation resistance detection	Yes							
Residual current detection	Yes							
Output over current protection	Yes							
Output short circuit protection	Yes							
Output over voltage protection	Yes							
Basic data								
Operation temperature	-25°C~60°C (frequency-decreasing above 45°C)							
Storage temperature	-30~65°C							
Relative humidity	0~95%							
Working altitude	≤4000m (frequency-decreasing above 2000m)							
Cooling	Free cooling							
Noise	<55db							
Weight	20kg						21.5kg	
Dimensions (W*H*D)	198*427*554mm							
Communication Interface	RS232(WIFI)/RS485(BMS)							
Protection class	IP66							
Topology	HF isolation (Battery side)							
Standard								
Safety standard/EMC standard	NB/T32004-2018, IEC62109, IEC61000, IS16169 & IS16221(BIS)							
Grid-connected standard	IEC61727, EN50549-1, VDE-4105, NRS-097-2-1, OVE-Richtlinie R25, UNE217001/2, Ordinance No.140							
Other standard	IEC61683, IEC62116, EN50530, IEC60068							
*Product specifications are subject to change without further notice								

ON/OFF-GRID SOLAR INVERTER

SKAT series Three-phase

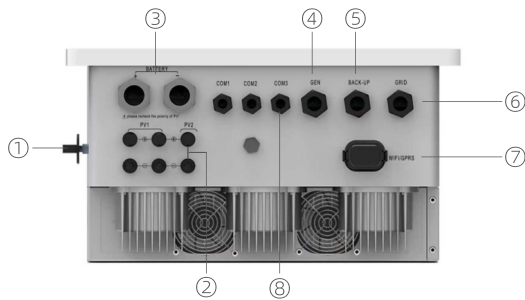


- IP66 design
- Up-to-36A maximum input current
- Off-grid peak power of 200% overload within 15 seconds
- Adaptable to 18A modules and able to match mainstream high current modules in the market
- 200% of photovoltaic over-proportion ratio for connecting more modules to ensure off-grid applications and fully charge battery
- Max.6 units in parallel connection

SKAT-8/10/12KS48P3

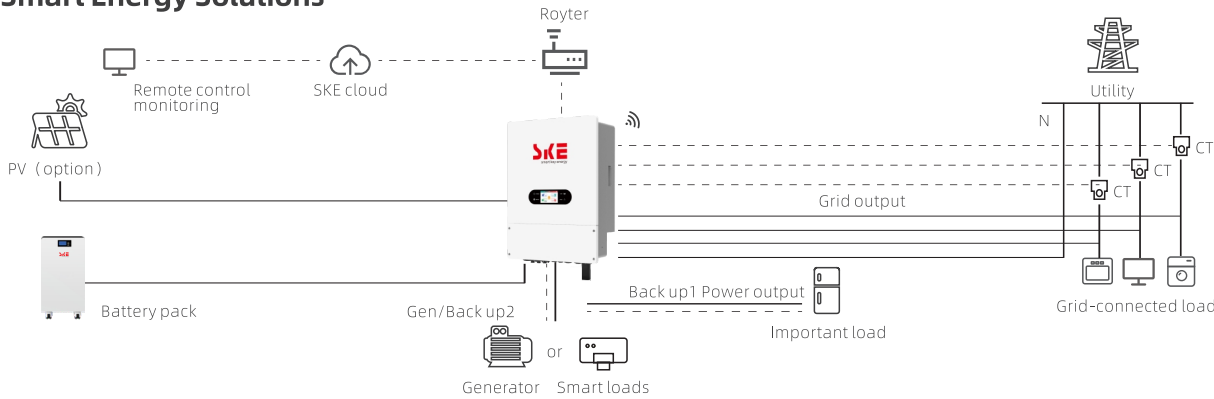


Back panel descripton



- 1.DC Switch(Optional)
- 2.PV Terminals
- 3.Battery Terminals
- 4.Gen Port
- 5.Back-Up
- 6.On-Grid
- 7.Wi-Fi Box/GPRS
8. Communication Port

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Specification

Modle Name	SKAT-8KS48P3		SKAT-10KS48P3	SKAT-12KS48P3
Battery input data				
Battery Type	Lithium or lead acid battery			
Rated battery voltage	48V			
Maximum charging voltage	≤60 (Configurable)			
Maximum charge/discharge current	190A	210A	250A	
PV input data				
Maximum DC input power	16000W	20000W	24000W	
Maximum DC input voltage	1000 VDC			
MPPT Operating voltage range	200~800 VDC			
Starting voltage	150 VDC			
Maximum input current	18/18A	36/18A	36/18A	
MPPT number	2	2	2	
AC output parameters (On-Grid)				
Maximum output apparent power	8800W	11000W	13200W	
Rated output voltage	380/400V			
Rated output frequency	50/60Hz			
Max output current	13.3A	16.7A	20A	
Output power factor	1 (-0.8 leading~+0.8 lagging)			
AC output parameters(Off-Grid)				
Rated output apparent power	8000W	10000W	12000W	
Maximum output apparent power	>200%,15sec			
Rated output voltage	380/400V			
Rated output frequency	50/60Hz			
Max output current	13.3A	16.7A	20A	
Efficiency				
Max efficiency (AC)	98%			
Max efficiency (Battery)	94.5%			
Europe efficiency	97.5%			
Protection				
PV input reverse polarity protection	Yes			
PV insulation resistance detection	Yes			
Residual current detection	Yes			
Output over current protection	Yes			
Output short circuit protection	Yes			
Output over voltage protection	Yes			
Basic data				
Operation temperature	-25°C~60°C (frequency-decreasing above 45°C)			
Storage temperature	-30~65°C			
Relative humidity	0~95%			
Working altitude	≤4000m (frequency-decreasing above 2000m)			
Cooling	Intelligent forced air cooling			
Noise	<55db			
Weight	38kg			
Dimensions (W*H*D)	475*683*256mm			
Communication Interface	RS232(WIFI)/RS485(BMS)			
Protection class	IP66			
Topology	HF isolation(Battery side)			
Standard				
Safety standard/EMC standard	NB/T32004-2018, IEC62109, IEC61000, IS16169 & IS16221(BIS)			
Grid-connected standard	IEC61727, EN50549-1, VDE-4105, NRS-097-2-1, OVE-Richtlinie R25, UNE217001/2, Ordinance No.140			
Other standard	IEC61683, IEC62116, EN50530, IEC60068			
*Product specifications are subject to change without further notice				

ON/OFF-GRID SOLAR INVERTER

SKWP series Single-phase



- IP66 design
- Built-in 2 MPP trackers
- Maximum PV input current increases to 21A/27A
- Dual output for smart load control
- Two independent AC power sources connected and switched automatically
- Programmable supply priority for PV, Battery or Grid
- Built-in communication port for BMS (RS485)
- User-adjustable charging current and voltage
- Parallel operation up to 9 units
- Support storing energy from diesel generator
- Touch Screen

SKWP-6.6/8.6/10.6KS48P

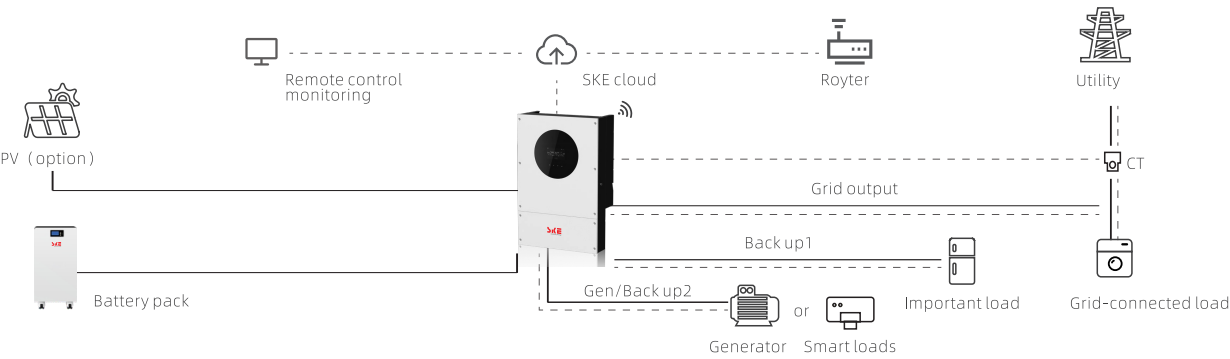


Back panel description



- 1. PV Terminals
- 2. AC Input
- 3. Battery Terminals
- 4. AC output
- 5. Generator AC input
- 6. OP/Sharing & CT & Dry In
- 7. Parallel communication ports
- 8. Communication ports

Smart Energy Solutions



Specification

MODEL	SKWP-6-6KS48P	SKWP-8-6KS48P	SKWP-10-6KS48P
PHASE	1-phase in / 1-phase out		
MAXIMUM PVINPUT POWER	12000W	16000W	18000W
RATED OUTPUT POWER	6600VA/6600W	8600VA/8600W	10600VA/10600W
MAXIMUM CHARGING POWER	6600W	8600W	10600W

GRID OUTPUT(AC)

Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	184-264.5VAC or 195.5 -253 VAC or 184-264.4 VAC (Selectable)	
Nominal Output Current	28.7A	
Power Factor	>0.99	
Maximum Conversion Efficiency(DC / AC)	95%	96%

AC INPUT

AC Start-up Voltage /Auto Restart Voltage	60-80VAC/180VAC	
Acceptable Input Voltage Range	90-280VAC or 170-280VAC	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
Maximum AC input Current	40A	60A

PV INPUT(DC)

Maximum DC Voltage	500 VDC	
MPP Voltage Range	120 VDC~ 450 VDC	
Number of MPP Trackers / Maximum Input Current	2/21A	2/27A

BATTERY MODE OUTPUT (AC)

Nominal Output Voltage	220/230/240 VAC	
Output Waveform	Pure sine wave	
Efficiency (DC to AC)	90%-93%	

BATTERY & CHARGER

Battery Type	Lead-acid or Lithium-ion		
Battery Voltage Range (V)	40-60VDC		
Nominal DC Voltage	48 VDC		
Maximum Solar Charging Current	135A	190A	210A
Maximum AC Charging Current	135A	190A	210A
Maximum Charging Current	135A	190A	210A

PHYSICAL

Dimension, D x W x H (mm)	192 x 414 x630		
Net Weight (kgs)	29	32	33

INTERFACE

Parallel Function	Yes, 9 units		
Communication Port	RS-232/RS485, WIFI		

ENVIRONMENT

Humidity	0~100% RH (No condensing)		
Operating Temperature	-10°C to 50°C		

PROTECTION & CERTIFICATE

Safety/EMC Standard	IEC/EN 62109-1 ,IEC/EN 62109-2,IEC/EN 61000-6-2/4
*Product specifications are subject to change without further notice	

ON/OFF-GRID SOLAR INVERTER

SKWP series Three-phase



- IP65 design
- Built-in 2 MPP trackers
- Maximum PV input current increases to 21A/27A
- Dual output fo rsmartload control
- Two independent AC power sources connected and switched automatically
- Programmable supply priority for PV, Battery or Grid
- Built-in communication port for BMS(RS485)
- User-adjustable charging current and voltage
- Parallel operation up to 9 units
- Support storing energy from diesel generator

SKWP-30KSP3/50KSP3

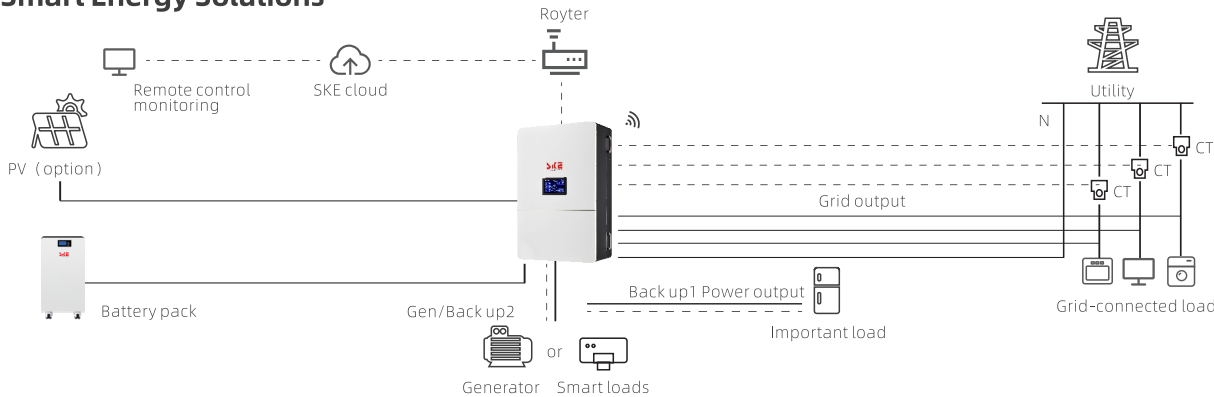


Back panel descripton



- 1.PV Terminals
- 2.Communication ports
- 3.AC output
- 4.Battery Terminals
- 5. Generator
- 6. AC Grid

Smart Energy Solutions



Specification

Mode Name	SKWP-30KSP3	SKWP-50KSP3
MAXIMUM PV INPUT POWER	48000W	65000 W
RATED OUTPUT POWER	30000W	50000W
MAXIMUM CHARGING POWER	30000W	50000W

GRID/UTILITY OPERATION		
PV INPUT (DC)	Nominal DC Voltage / DC Voltage Range	720 VDC / 300 VDC ~ 1000 VDC
	Start-up Voltage / Initial Feeding Voltage	300 VDC / 350 VDC
	MPP Voltage Range	350 VDC ~ 900 VDC
	Number of MPP Trackers / Maximum Input Current	3/36A for each
GRID/UTILITY OUTPUT (AC)	Number of Strings Per MPP Tracker	2
		2
GRID/UTILITY OUTPUT (AC)	Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
	Output Voltage Range	184 ~ 265 VAC per phase
	Output Frequency Range	47.5 ~ 51.5 Hz or 59.5 ~ 60.5 Hz
	Power Factor	0.9 lag to 0.9 lead
EFFICIENCY	Maximum Conversion Efficiency (DC/AC)	96.50%
	European Efficiency@ Nominal	90%

OFF-GRID OPERATION		
AC INPUT	AC Start-up Voltage / Auto Restart Voltage	120 ~ 140 VAC / 180 VAC per phase
	Acceptable Input Voltage Range	170 ~ 280 VAC per phase
	Maximum AC Input Current	50A
PV INPUT(DC)	Nominal DC Voltage / DC Voltage Range	720 VDC / 300 VDC ~ 1000 VDC
	MPP Voltage Range	350 VDC ~ 900 VDC
	Number of MPP Trackers / Maximum Input Current	4/36A for each
BATTERY MODE OUTPUT (AC)	Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
	Output Waveform	Pure sine wave
	Efficiency (DC to AC)	97%

HYBRID OPERATION		
PV INPUT (DC)	Nominal Dc Voltage/Dc Voltage Range	720 VDC / 300 VDC ~ 1000 VDC
	Start-up Voltage/Initial Feeding Voltage	300 VDC / 350 VDC
	MPP Voltage Range	350 VDC ~ 900 VDC
GRID OUTPUT (AC)	Number of MPP TrackersMaximum Input	4/36A for each
		3/36A for each
	Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
AC INPUT	Output Voltage Range	184 ~ 265 VAC per phase
	Nominal Output Current	43.5 A per phase
		73 A per phase
AC INPUT	AC Start-up Voltage / Auto Restart Voltage	120 ~ 140 VAC / 180 VAC per phase
	Acceptable Input Voltage Range	170 ~ 280 VAC per phase
	Maximum AC Input Current	50A
BATTERY MODE OUTPUT (AC)	Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
	Efficiency (DC to AC)	97%
BATTERY &CHARGER	Battery Voltage Range	200-900 VDC
	Maximum Charging/Discharging Current	50A

GENERAL		
PHYSICAL	Dimension,D x W x H (mm)	290 x 580 x 900
	Net Weight (kgs)	90
INTERFACE	Communication Port	RS-232,USB,dry contact,RS-485,CAN,Wi-Fi
	Intelligent Slot	Optional SNMP or MODBUS
ENVIRONMENT	Humidity	0 ~ 100% RH
	Operating Temperature	-25°C to 60°C (-45°C De-rating)
	Altitude	0 ~ 1000 m³
PROTECTION &CERTIFICATE	EMI/Safety	IEC 61000,EN 62920,EN 62477
	Grid Connection Standard	NRS097-2-1,VDE-AR-N4105,G99,IEC 61683,IEC 61727,IEC 62116

*Product specifications are subject to change without further notice

RACK BATTERY PACK

SK-RM Series

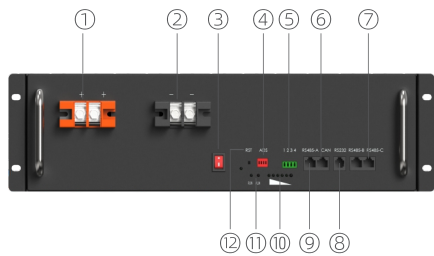


- High Quality Lithium Iron Phosphate (LiFePO4) Battery
- Cycle Life: Up to 8,000 cycles
- Advanced Battery Management System (BMS)
- Wide Operating Temperature: -20°C~60°C
- Communication: RS485 / CAN
- Support 19-inch Rack Mountable
- Support Parallel Connection



SK-RM4800/5120/10240/15000

Back panel descripton



- 1.Positive pole

2.Negative pole

3.weak current switch

4.Dip switch

5.Dry contact

6.CAN Port
- 7.Parallel communication port

8.RS232

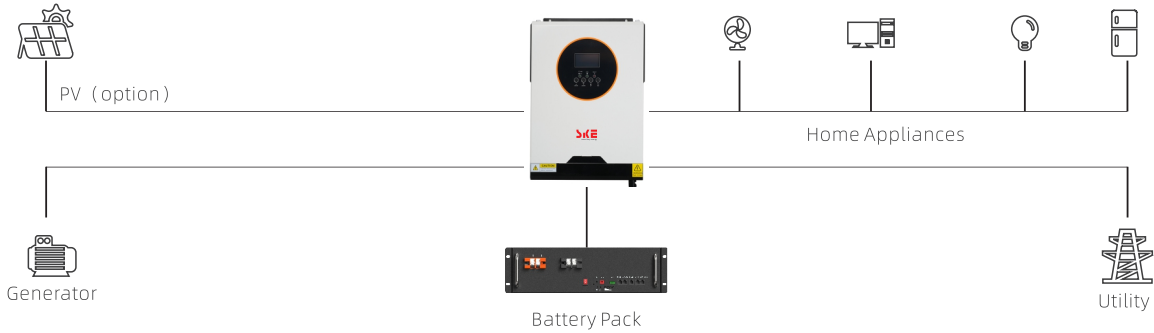
9.RS485

10.Power indicator light

11.Alarm indicator light

12.Reset button

System Connection Diagram



SKESmart key energy

Specification

Model		SK-RM4800	SK-RM5120	SK-RM10240	SK-RM15000
Rated battery voltage		48V	51.2V	51.2V	51.2V
Electrical specification	Rated capacity	5kWh		10kWh	15kWh
	Nominal capacity	100Ah		200Ah	300Ah
	Combination	15S1P	16S1P	16S1P	16S1P
	Cycle life	≥8000 cycles @80%DOD @25°C			
	Monthly self-discharge	3%/month			
	Charging efficiency	≥97%			
	Discharging efficiency	≥98%			
Charging standard	Recommended charging voltage	57.6V			
	Recommended charging current	20A	40A	60A	
	Maximum charging voltage	58.4V			
	Maximum charging current	100A	200A	200A	
Discharging standard	Recommended discharge current	50A	100A	100A	
	Maximum discharge current	100A	200A	200A	
	Discharge cut-off voltage	43.2V			
Physical	Dimensions(W*D*H)(mm)	442*440*133mm		442*760*133mm	442*720*244mm
	Package size(W*D*H)(mm)	557*519*219mm		1025*545*320mm	1100*540*410mm
	Net weight(kg)	41.5kg±1kg		79kg±1kg	126kg±2kg
	Gross weight (kg)	44kg±1kg		95kg±2kg	145kg±2kg
	IP protection	IP30			
	Shell material	Metal			
	Optional functions	Anti-theft, LCD			
Environment	Charging temperature range	0°C~45°C			
	Operating temperature range	-20°C~60°C			
	Storage temperature	0°C~40°C			
	Humidity	10% to 85% RH (NO condensing)			

*Product specifications are subject to change without further notice

HOME ENERGY STORAGE SYSTEM

SK-BG Series

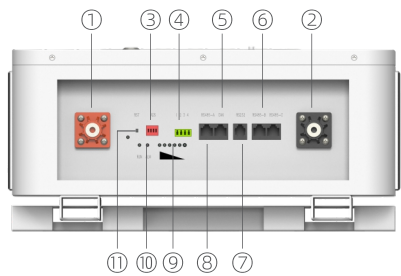


- Top brand A-grade LiFePO4 battery, super safe
- Support wall-mounted or floor-standing installation
- Cycle Life: Up to 8,000 cycles
- Smart BMS perfectly matches solar system
- Support multiple battery packs in parallel
- Multiple communication protocols match 10+ brands inverter

SK-BG3000D/2560-5/5120C/10240/ST15000



Back panel descripton



- 1.Positive pole

2.Negative pole

3.Dip switch

4.Dry contact

5.CAN Port

6.Parallel communication port
- 7.RS232

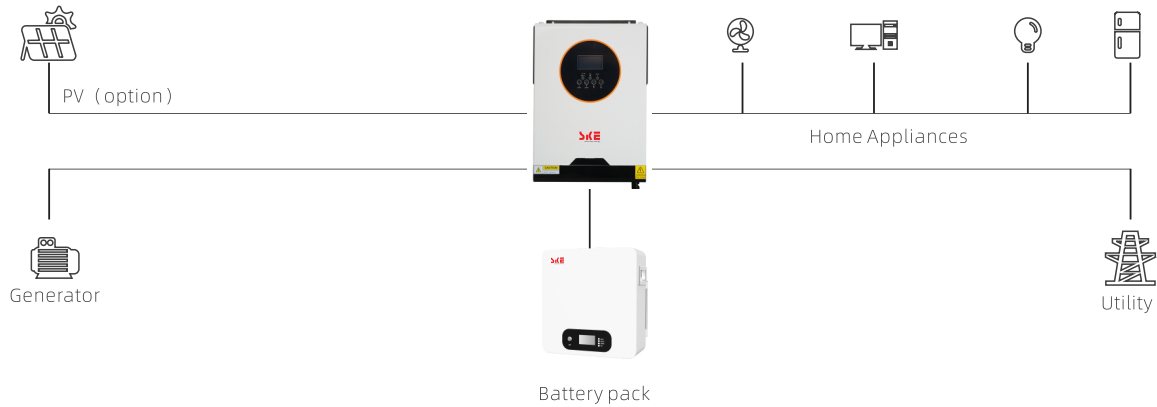
8.RS485

9.Power indicator light

10.Alar mindicator light

11.Reset button

System Connection Diagram



Model		SK-BG3000D	SK-BG2560-5	SK-BG5120C	SK-BG10240	SK-ST15000
Rated battery voltage		25.6V		51.2V		
Electrical specification	Rated capacity	2.5kWh	5kWh	5kWh	10kWh	15kWh
	Nominal capacity	100Ah	200Ah	100Ah	200Ah	280Ah/300Ah
	Combination	8S1P	8S2P	16S1P	16S1P	16S1P
	Cycle life	≥8000 cycles @80% DOD @25°C				
	Monthly self-discharge	3%/month				
	Charge efficiency	≥97%				
	Discharging efficiency	≥98%				
Charging standard	Recommended charging voltage	28.8V		57.6V		
	Recommended charging current	20A			40A	60A
	Maximum charging voltage	29.2V		58.4V		
	Maximum charging current	100A			200A	
Discharging standard	Recommended discharge current	50A			100A	
	Maximum discharge current	100A			200A	
	Discharge cut-off voltage	21.6V		43.2V		
Physical	Dimensions(W*D*H)(mm)	505*480*190	505*480*190	505*480*190	825*490*145	780*390*260
	Package size(W*D*H)(mm)	563*558*286	563*558*286	563*558*286	1025*545*320	934*435*420
	Net weight(kg)	25kg+1kg	46.5kg+1kg	46.5kg+1kg5	83kg+1kg	110kg+1kg
	Gross weight (kg)	35kg+1kg	52kg+1kg	52kg+1kg	104kg+1kg	123.5kg+1kg
	IP protection	IP30				
	Shell material	Metal				
	Optional functions	FULL GUARD				
Environment	Charging temperature range	0°C~45°C				
	Operating temperature range	-20°C~60°C				
	Storage temperature	0°C~40°C				
	Humidity	10% to 85% RH(NO condensing)				

*Product specifications are subject to change without further notice

HOME ENERGY STORAGE SYSTEM

SK-FM Series

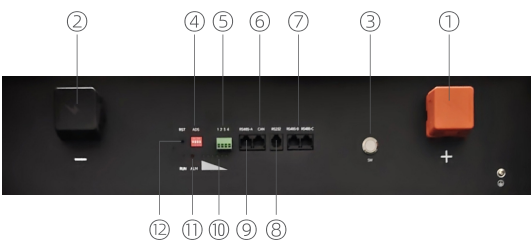


- High-quality lithium iron phosphate(LiFePO4)battery
- Each battery module unit with an independent BMS system for scientific management of the cells
- Supports multiple battery packs in parallel
- Support RS485/CAN communication, compatible with global mainstream inverters
- Floor-mounted design, convenient for mobility
- Cycle Life: Up to 8,000 cycles
- Wide temperature range:-20°C~60°C
- Widely used for home stores and office

SK-FM16000/32000



Back panel descripton



- 1.Positive pole

2.Negative pole

3.Weak current switch

4.Dip switch

5.Dry contact

6.CAN Port
- 7.Parallel communication port

8.RS232

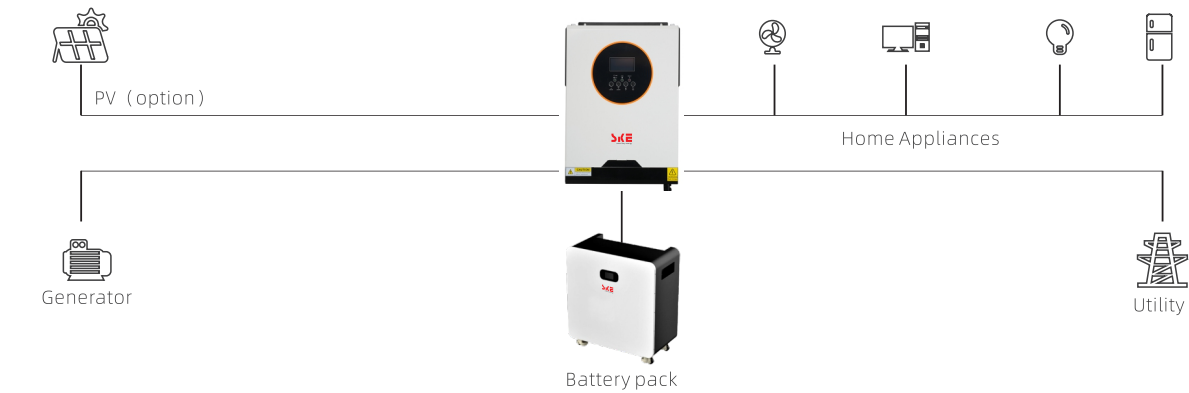
9.RS485

10.Power indicator light

11.Alarm indicator light

12.Reset button

System Connection Diagram



Specification

Model		SK-FM16000	SK-FM32000
Rated battery voltage		51.2V	
Electrical specification	Rated capacity	16kWh	32kWh
	Nominal capacity	314Ah	628Ah
	Combination	16S1P	16S2P
	Cycle life	≥8000 cycles @80% DOD @25°C	
	Monthly self-discharge	3%/month	
	Charge efficiency	≥97%	
	Discharging efficiency	≥98%	
Charging standard	Recommended charging voltage	57.6V	
	Recommended charging current	200A	
	Maximum charging voltage	58.4V	
	Maximum charging current	200A	280A
Discharging standard	Recommended discharge current	200A	
	Maximum discharge current	200A	280A
	Discharge cut-off voltage	43.2V	
Physical	Dimensions(W*D*H)(mm)	780*480*240mm	760*760*400mm
	Package size(W*D*H)(mm)	900*535*410mm	900*825*570mm
	Net weight(kg)	117±1kg	250±1kg
	Gross weight (kg)	132±1kg	274±1kg
	Ip protection	IP30	
	Shell material	Metal	
	Optional functions	Anti-theft,LCD	
Environment	Charging temperature range	0°C~45°C	
	Operating temperature range	-20°C~60°C	
	Storage temperature	0°C~40°C	
	Humidity	10% to 85% RH (NO condensing)	

*Product specifications are subject to change without further notice

HOME ENERGY STORAGE SYSTEM

SK-ST Series

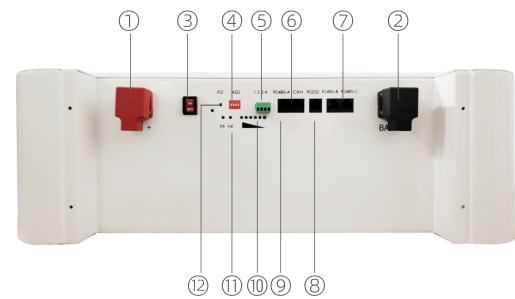


- Pure sine wave, suitable for all kinds of load devices
- Built-in MPPT charger controller
- Battery over discharging, overload,over-temperature short circuit protect function
- Cold start function
- Smart BMS management system, multiple protection
- Easy to move with wheels
- Built in Grade A LiFeP04 battery cell, better performance and reliability
- Cycle life up to 8000 cycles

SK-ST5120/10000/15000C



Back panel descripton



- 1.Positive pole

2.Negative pole

3.Weak current switch

4.Dip switch

5.Dry contact

6.CAN Port
- 7.Parallel communication port

8.RS232

9.RS485

10.Power indicator light

11.Alarm indicator light

12.Reset button

Home Energy Storage System



Specification

Model		SK-ST5120	ST10000	ST15000C
Inverter Features				
Inverter output	Rated power	5KW	10.2KW	
	Peak power	10KW	20KW	
	Waveform	Pure Sine Wave		
	AC voltage (Battery mode)	(220vac-240vac)±5% 230vac(Default)		
	Inverter efficiency(Max)	93%	94%	
	Transfer time	10ms(UPS);20ms(APL)		
	No load power consumption	<40W@48VDC		
AC Input	Voltage	230VAC		
	Selectable voltage range	170~280VAC(UPS)90~280VAC(APL)		
	Frequency range	50Hz/60Hz(Auto sensing)		
Solar charger & AC charger	Solar charger type	MPPT		
	MPPT Maximum PV Array power	6000W	10000W	
	MPPT output voltage range	60~450 VDC		
	Maximum PV array open circuit voltage	500 VDC		
	Maximum Solar charge current	80A	150A	
	Maximum AC charge current	80A	120A	
	Maximum charge current	80A	150A	
	Electrical characteristics of battery pack			
Battery pack	Rated battery voltage	51.2V		
	Rated capacity	5kWh	10kWh	15kWh
	Nominal Capacity	100Ah	200Ah	300Ah
	Combination	16S1P		
	Cycle life	≥8000 cycles @80%DOD @25℃		
	Monthly self-discharge	3%/month		
	Charging efficiency	≥97%		
	Discharging efficiency	≥98%		
Charging Standard	Recommended charging voltage	57.6V		
	Recommended charging current	20A/40A/60A/80A	40A/80A/120A/160A	60A/80A/120A/160A
	Maximum charging voltage	58.4V		
	Maximum charging current	100A	200A	
Discharging Standard	Recommended discharging current	50A (1-2 packs) 100A (3-4 packs)	100A (1-2 packs) 200A (3-4 packs)	
	Maximum discharge current	100A	200A	
	Discharge cut-off voltage	43.2V		
Physical	Dimensions(W*D*H)(mm)	520*480*188mm	700*500*267.2mm	
	Package size(W*D*H)(mm)	590*550*255mm	750*550*445mm	
	Net weight(kg)	46Kg±1kg	85Kg±1kg	113Kg±1kg
	Gross weight(kg)	49Kg±1Kg	101kg±1Kg	128kg±1Kg
	IP Prote ction	IP30		
	Shell material	Metal		
	Optional functions	Anti-theft,LCD		
Environment	Charging temperature range	0℃~45℃		
	Operating temperature range	-20℃~60℃		
	Storage temperature	0℃~40℃		
	Humidity	10%~85%RH(NO condensing)		
*Product specifications are subject to change without further notice				

COMMERCIAL & INDUSTRIAL ENERGY STORAGE

SKEWG series



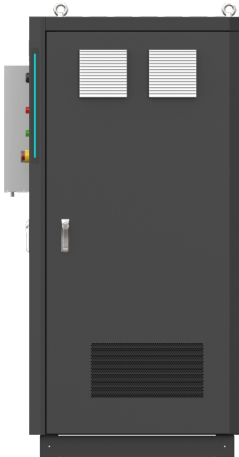
- Double fire suppression system design
- Intelligent temperature control, High thermal management efficiency, balanced heat dissipation, core temperature difference <5°C
- Pre-installed in factory for easy installation on site
- Easy to maintenance with AC/DC modular design
- 24H cloud monitoring
- Easy & flexible to scale (Max. 9 cabinets in parallel)

SKEWG-8K/10K/12K/15K



Applicable scenarios

Medium-sized industrial and commercial scenarios such as factories, shopping malls, islands, and other scenarios without/weak and unstable grid power.



Model		SKEWG-8K	SKEWG-10K	SKEWG-12K	SKEWG-15K
Rated AC Power		8KW	10KW	12KW	15KW
Wiring Configuration		3 Phase 5 Wire			
PV Specification	Max. Input Power	12KW	15KW	18KW	22KW
	Max. Input Voltage	900 VDC	900 VDC	900 VDC	900 VDC
	MPPT Voltage Range	150~850VDC	150~850 VDC	150~850 VDC	150~850 VDC
	Max. Current per MPPT	30A	36A	45A	54A
	Number of MPPT	2	2	2	2
	Number of Inputs per MPPT	2	2	2	2
	Nominal Energy	10kWh~60kWh Optional			
Battery Specification	Cell Type	LiFePO4			
	Cell Parameter	100Ah 3.2V			
	Pack Configuration	16S1P*nP			
	Operating Voltage Range	40~60 VDC			
	Maximum Continuous Discharging Current	200A	220A	250A	300A
	Maximum Continuous Charging Current	160A	200A	240A	300A
	Rated AC Power	8kw	10kw	12kw	15kw
PCS Specification	Max. AC Power	8.8kw	11kw	13.2kw	16.5kw
	AC Output Format	TN			
	THDv	<3% (100% load)			
	Rated Grid Voltage	230Vac (P-N)/ 400Vac (P-P)			
	Grid Voltage Range	-20%~15%			
	Grid Power Factor	-1~+1			
	Rated Grid Frequency	50Hz/60Hz			
System Specification	Grid Frequency Range	47~52Hz/57~62Hz			
	IP Protection	IP65			
	Dimensions (W*H*D)	1100*1075*1900mm			
	Weight (kg)	98kg		105kg	
	Max. cycle efficiency	≥90%			
	C-rate	≤0.5C			
	Cycle life	≥8000			
	IP Protection	IP55			
	Auxiliary power supply	Self-powered and externally powered			
	Anti Backflow Function	YES (External Bi-directional Digital Meter)			
	Operating Temperature	-20°C~+55°C (>45°C)			
	Relative Humidity	0~100%			
	Max Altitude	4000 m (>2000 m derated)			
	Acoustic Noise	<70dB			
	Anti-corrosive grade	C3 (Standard) , C5 (Optional)			
	Cooling Method	AC; Smart Temperature Control			
	Fire Suppression System	Temperature Detector, Smoke Detector,Aerosol, audible and visual alarms			
	EMS	Support Web Server, Mobile APP, Remote monitoring			
	Communication Protocol	4G Communication			
Certification	Grid-connected certification	EN50549-1			
	Safety standard	EN/IEC 62109-1/2,IEC 62619,GB/T 36276			
	Others	EN/IEC 61000-6-1/2/3/4			

*Product specifications are subject to change without further notice

COMMERCIAL & INDUSTRIAL ENERGY STORAGE

SKYT series



- Double fire suppression system design
- Intelligent temperature control, high thermal management efficiency,balanced heat dissipation, core temperature difference <5°C
- Pre-installed in factory for easy installation on site
- Easy to maintenance with AC/DC modular design
- 24H cloud monitoring
- Easy & flexible to scale (Max. 9 cabinets in parallel)

SKYT-30K/50K



Applicable scenarios

Medium-sized industrial and commercial scenarios such as factories, shopping malls, islands, and other scenarios without/weak and unstable grid power.



Model		SKYT-30K	SKYT-50K
Rated AC Power		30KW	50KW
Wiring Configuration		3 Phase 5 Wire	
PV Specification	Max. Input Power	38.4KW	76.8KW
	Max. Input Voltage	850 VDC	850 VDC
	MPPT Voltage Range	200~800 VDC	200~800 VDC
	Max. Current per MPPT	64A	128A
	Number of MPPT	2	4
	Number of Inputs per MPPT	2	2
Battery Specification	Nominal Energy	60kwh	100kwh
	Cell Type	LiFePO4	LiFePO4
	Cell Parameter	100Ah 3.2V	280Ah 3.2V
	Pack Configuration	16S1P*12	16S1P*7
	Operating Voltage Range	320Vdc~820Vdc	350Vdc~820Vdc
	Maximum Continuous Discharging Current	100A	150A
	Maximum Continuous Charging Current	100A	150A
PCS Specification	Rated AC Power	30kw	50kw
	Max. AC Power	33kw	55kw
	AC Output Format	TN	
	THDv	<3% (100% load)	
	Rated Grid Voltage	230Vac (P-N)/400Vac (P-P)	
	Grid Voltage Range	-20%~15%	
	Grid Power Factor	-1~+1	
	Rated Grid Frequency	50Hz/60Hz	
	Grid Frequency Range	47~52Hz/57~62Hz	
System Specification	IP Protection	IP20	
	Dimensions (W*H*D)	1200*800*1700mm	
	Weight (kg)	255kg	455kg
	Max. cycle efficiency	≥90%	
	C-rate	≤0.5C	
	Cycle life	≥8000	
	IP Protection	IP55	
	Auxiliary power supply	Self-powered and externally powered	
	Anti Backflow Function	YES (Internal Bi-directional Digital Meter)	
	Operating Temperature	-20°C~+55°C (>45°C)	
	Relative Humidity	0~100%	
	Max Altitude	4000 m (>2000 m derated)	
	Acoustic Noise	<70dB	
	Anti-corrosive grade	C3 (Standard) , C5 (Optional)	
	Cooling Method	AC; Smart Temperature Control	
	Fire Suppression System	Temperature Detector, Smoke Detector,Aerosol, audible and visual alarms	
	EMS	Support Web Server, Mobile APP, Remote monitoring	
	Communication Protocol	4G Communication	
Certification	Grid-connected certification	EN50549-1	
	Safety standard	EN/IEC 62109-1/2,IEC 62619,GB/T 36276	
	Others	EN/IEC 61000-6-1/2/3/4	

*Product specifications are subject to change without further notice

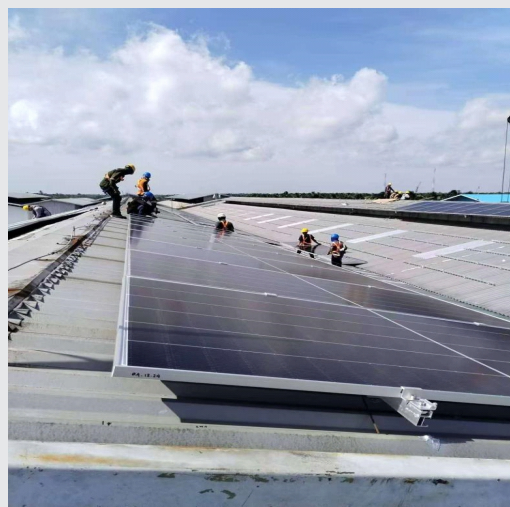
PROJECT APPLICATION



Indonesia Commercial&Industrial BESS 2.15MWh



Thailand 1MW



Myanmar 1.5MW



Nigeria 10kWh/10.2KW



Iraq 10kWh/8.2KW



Vietnam 30kWh/12KW



Zambia 5kWh/6.2KW



Zambia 7.5kWh/3.6KW



Iraq 30kWh/ 10.2KW