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SOLAR INVERTER SCP Series

HEFEI JINGCHI NEW ENERGY CO.,LTD.

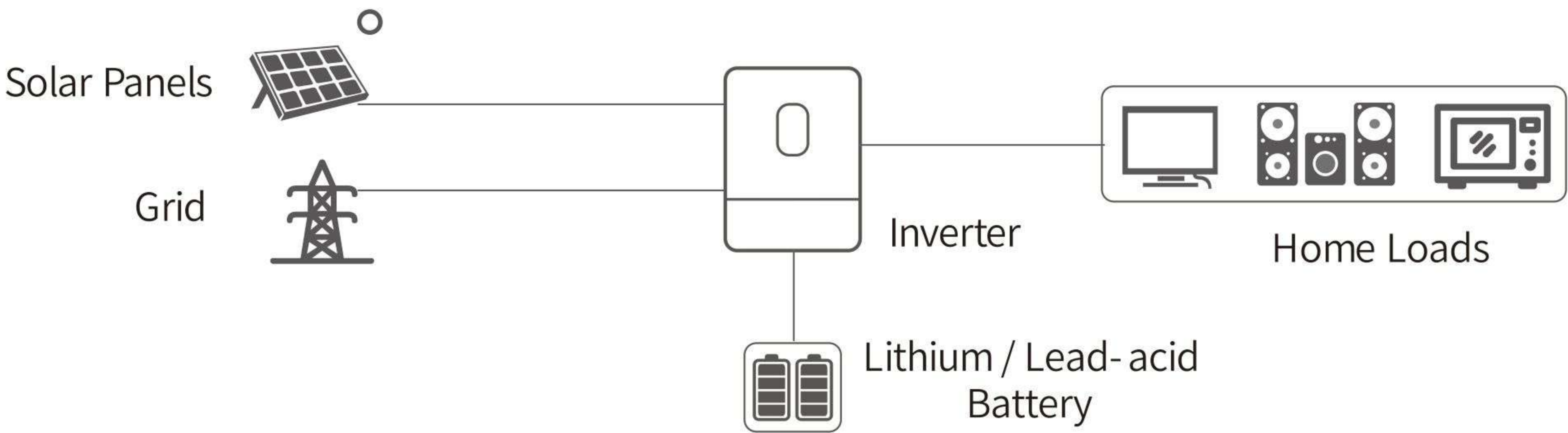
Solar Off-grid Inverter



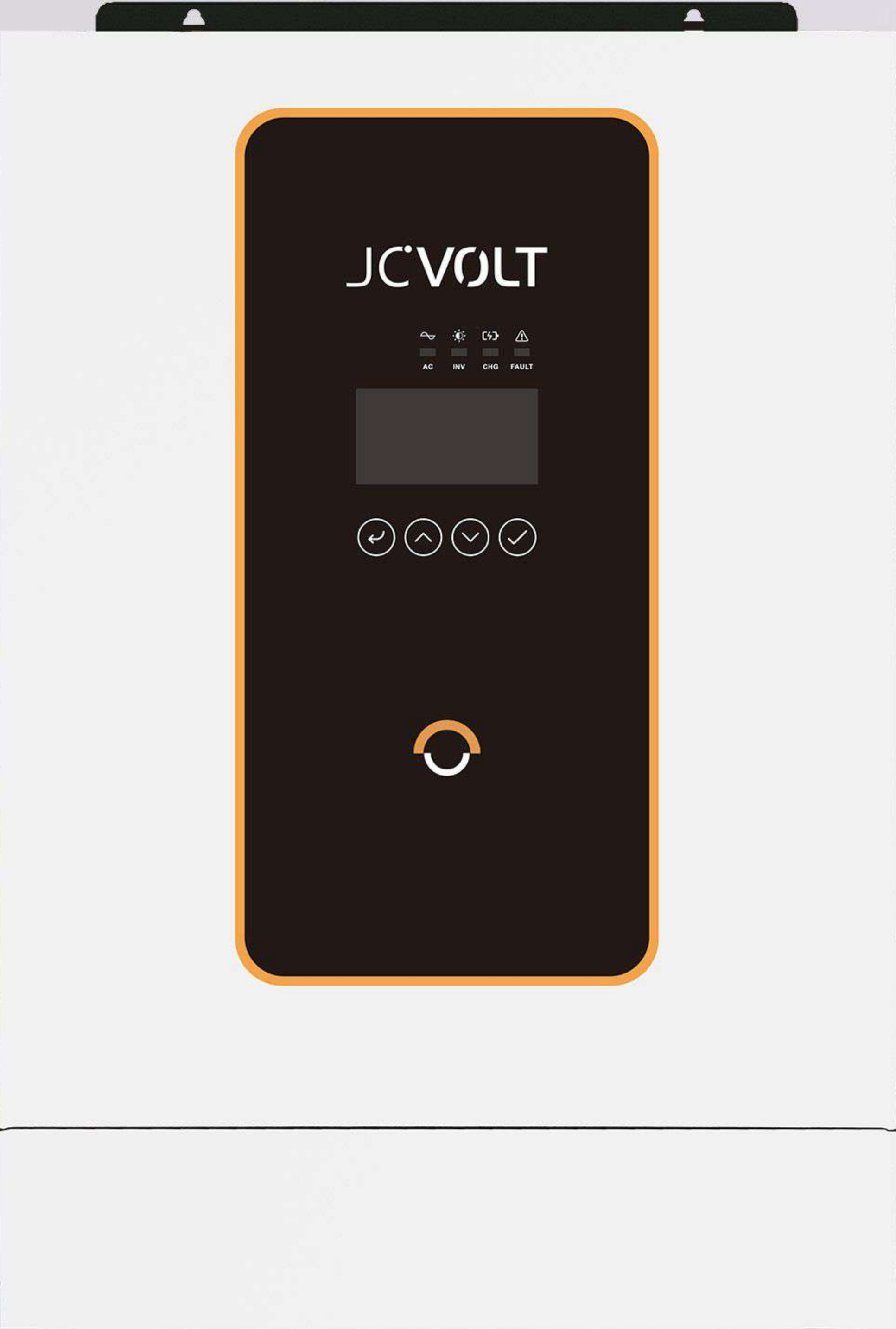
Specifications

Model	SCP1.2KW-12V
AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (kW)	1.2
Surge Power (kVA)	2.4
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	60s@102%~110% load; 10s@110%~130% load; 3s@130%~150% load; 0.2s@>150% load
Max. Efficiency (Battery Mode)	90%@12VDC
Parallel Quantity	NA
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PV input current / power	18A/800W
MPPT Range@Operating Voltage (VDC)	17~115
Max PV Open Circuit Voltage (VDC)	115
Max PV Charge Current (A)	50A
Max AC Charge Current (A)	50A
Max. Charge Current (PV + AC) (A)	100A
Battery	
Rated Voltage (VDC)	12
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	USB (Optional)
Monitoring	NA
General Data	
Ingress Protection	IP21
Operating Temperature	-10 °C ~ 60 °C
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15 °C ~ 60 °C
Net Weight (kg)	3.5
Dimensions (W*H*D)	320x227x100mm
Max. Operating Altitude	4000m (Derating above 1000m)

System Diagram



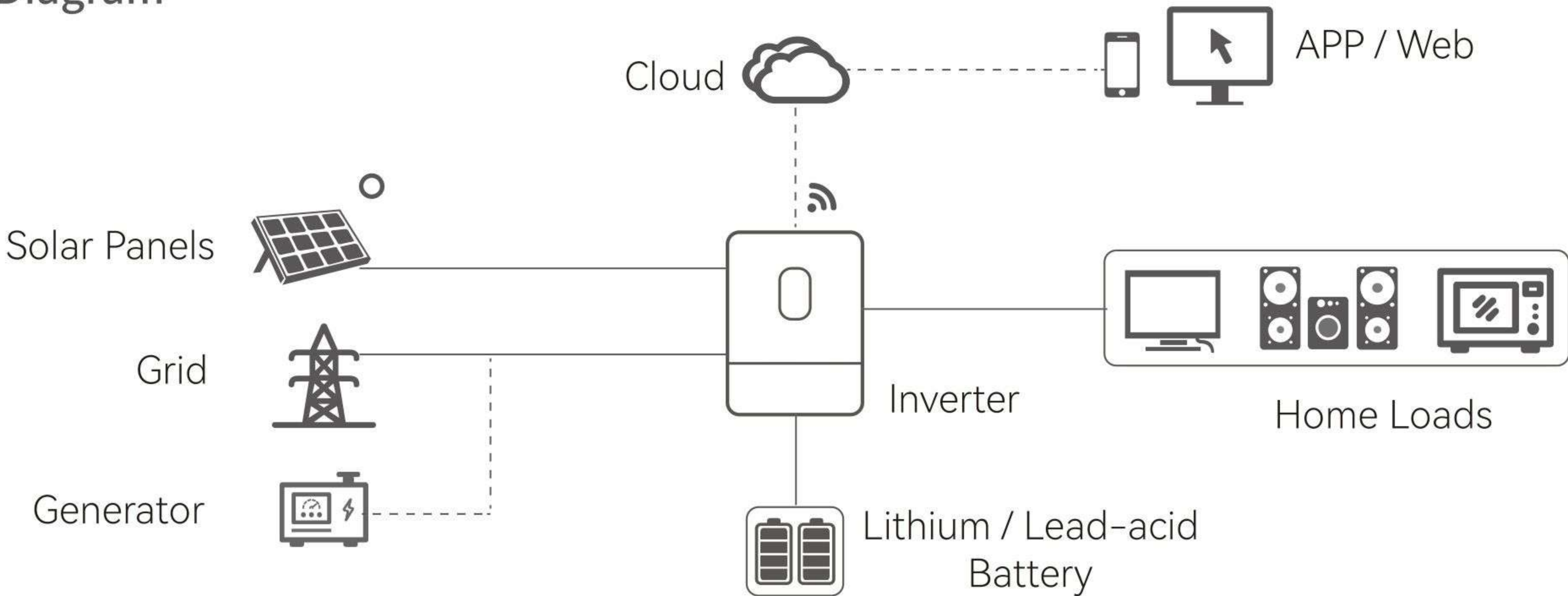
Hybrid Solar Inverter



SCP3.6KW-24V

- Built-in 100A Solar Charger
- Wide MPPT Range 40-500V
- Workable with Generator
- Complete CE Certificate
- BMS Support Lithium/Lead-acid Battery
- Lithium Battery Activation
- Detachable Dust Cover
- WiFi Monitoring

System Diagram



Specifications

Model	SCP3.6KW-24V
AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (kW)	3.6
Surge Power (kVA)	7.2
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	60s@102%~110% load; 10s@110%~130% load; 3s@130%~150% load; 0.2s@>150% load
Max. Efficiency (Battery Mode)	92.7%@24VDC
Parallel Quantity	NA
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PV input Current / Input Power	18A / 5000W
MPPT Range@Operating Voltage (VDC)	40~450
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	100
Max AC Charge Current (A)	100
Max. Charge Current (PV + AC) (A)	100
Battery	
Rated Voltage (VDC)	24
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS485 / RS232 / USB / Dry Contact
Monitoring	WiFi (Optional)
General Data	
Ingress Protection	IP21
Operating Temperature	-10 °C ~ 50 °C
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15 °C ~ 60 °C
Net Weight (kg)	5.7
Dimensions (W*H*D)	435x285x98mm
Max. Operating Altitude	4000m (Derating above 1000m)

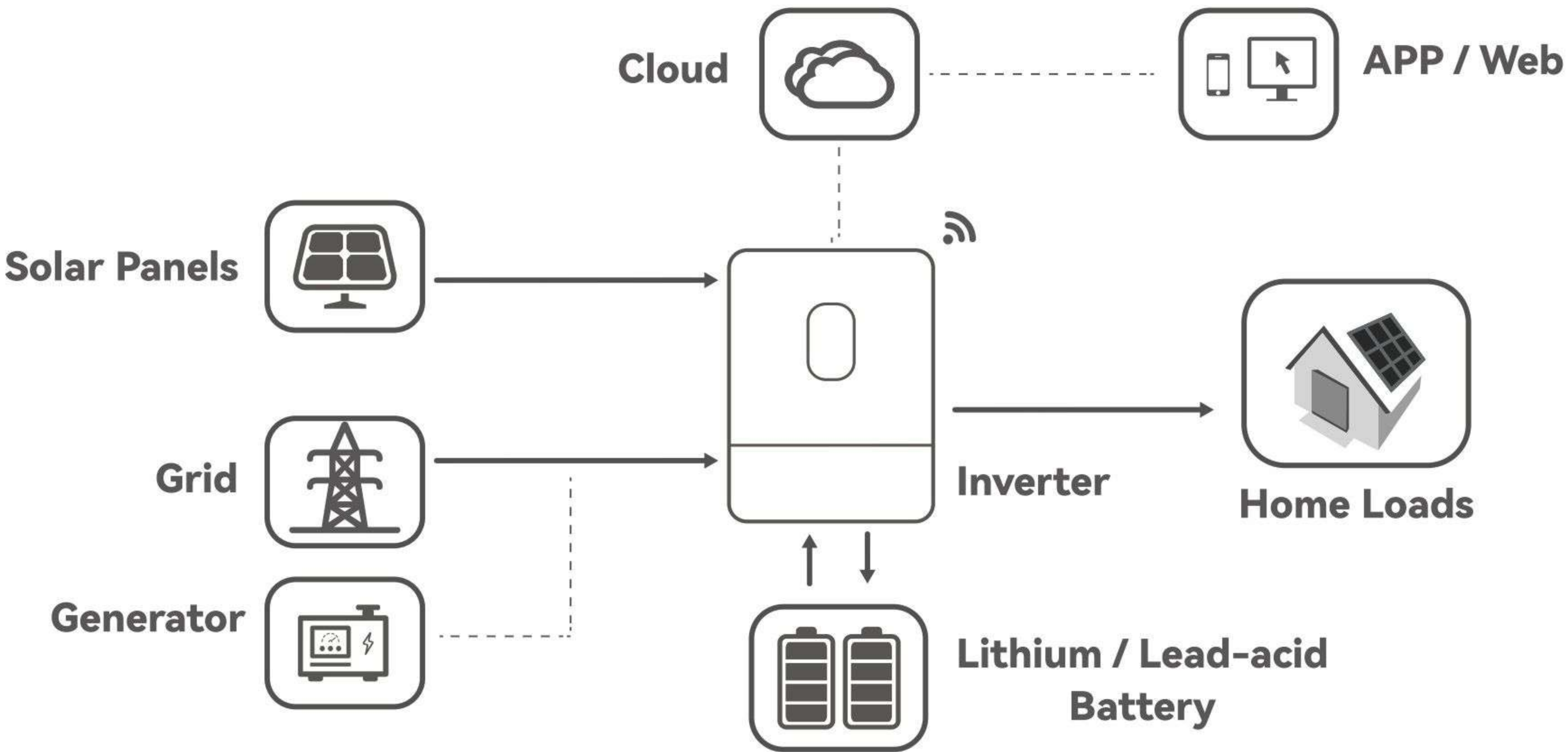
Hybrid Solar Inverter



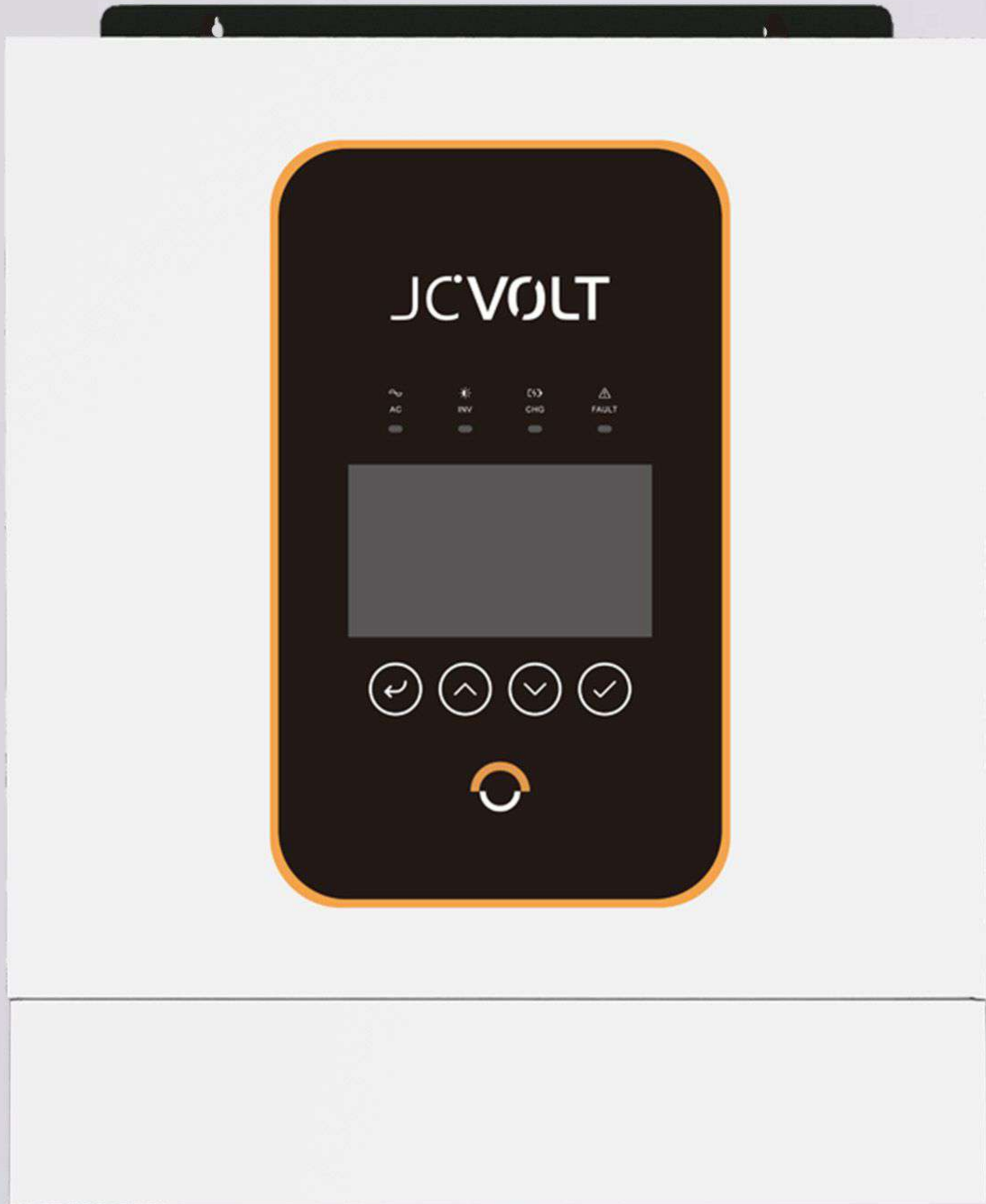
Specifications

Model	SCP5.0KW-24V
AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (kW)	5.0
Surge Power (kVA)	10
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	1min@102%~120%load, 10s>120% load
Max. Efficiency (Battery Mode)	93.5%@24VDC
Parallel Quantity	NA
Charger (PV / AC)	
Solar Charger Type	MPPT
Max. PV Input Current / Input Power	27A / 9000W
MPPT Range@Operating Voltage (VDC)	60~450
Max. PV Open Circuit Voltage (VDC)	500
Max. PV Charge Current (A)	160
Max. AC Charge Current (A)	160
Max. Charge Current (PV + AC) (A)	160
Battery	
Rated Voltage (VDC)	24
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS232 / RS485 / USB
Monitoring	WiFi (Optional)
General Data	
Ingress Protection	IP21
Operating Temperature	-10 °C ~ 60 °C
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15 °C ~ 60 °C
Net Weight (kg)	7.8
Dimensions (W*H*D)	410x336x115mm
Max. Operating Altitude	4000m (Derating above 1000m)

System Diagram

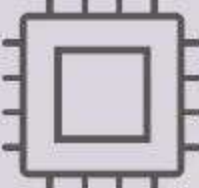


Hybrid Solar Inverter



SCP6.5KW-48V

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Built-in 120A Solar Charger
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Wide PV Input Voltage Range 60-500V
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27A MAX PV Input
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DUAL Dual AC Out
- 

Workable with Generator
- 

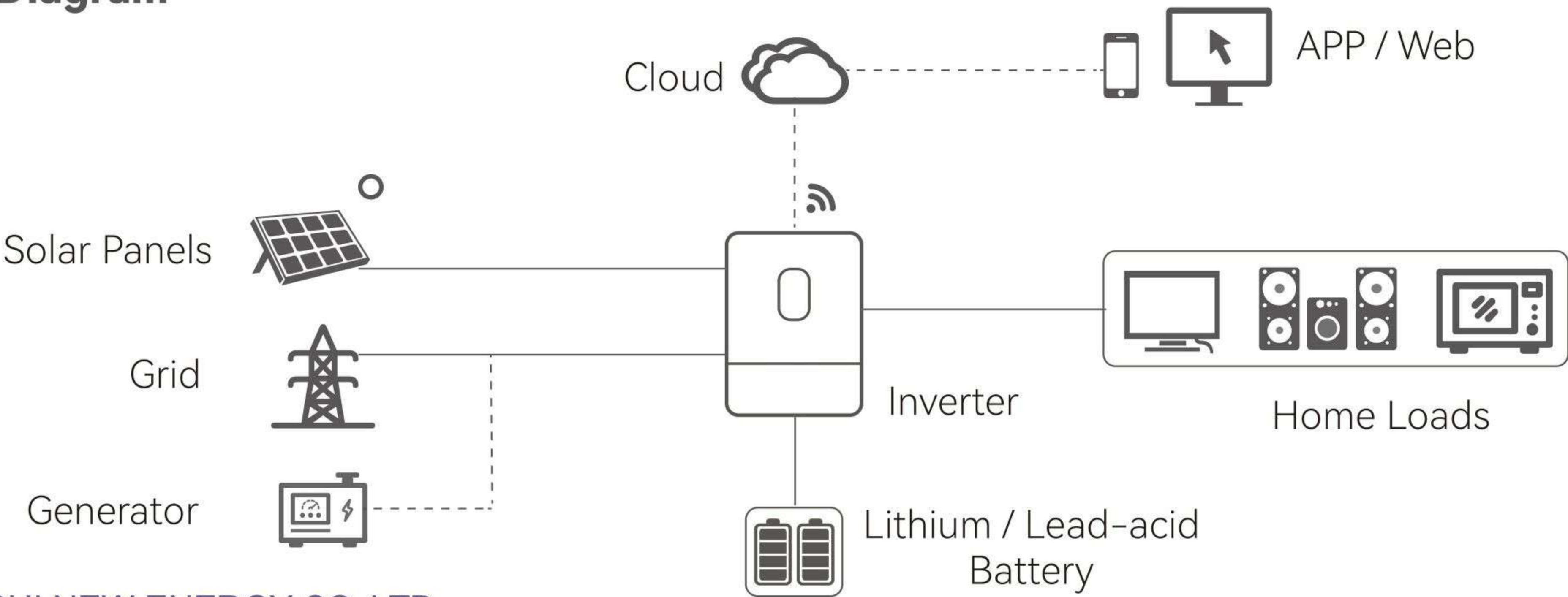
BMS Support Lithium/Lead-acid Battery
- 

Lithium Battery Activation
- 

Feed-in to Grid
- 

WiFi Monitoring(optional)

System Diagram

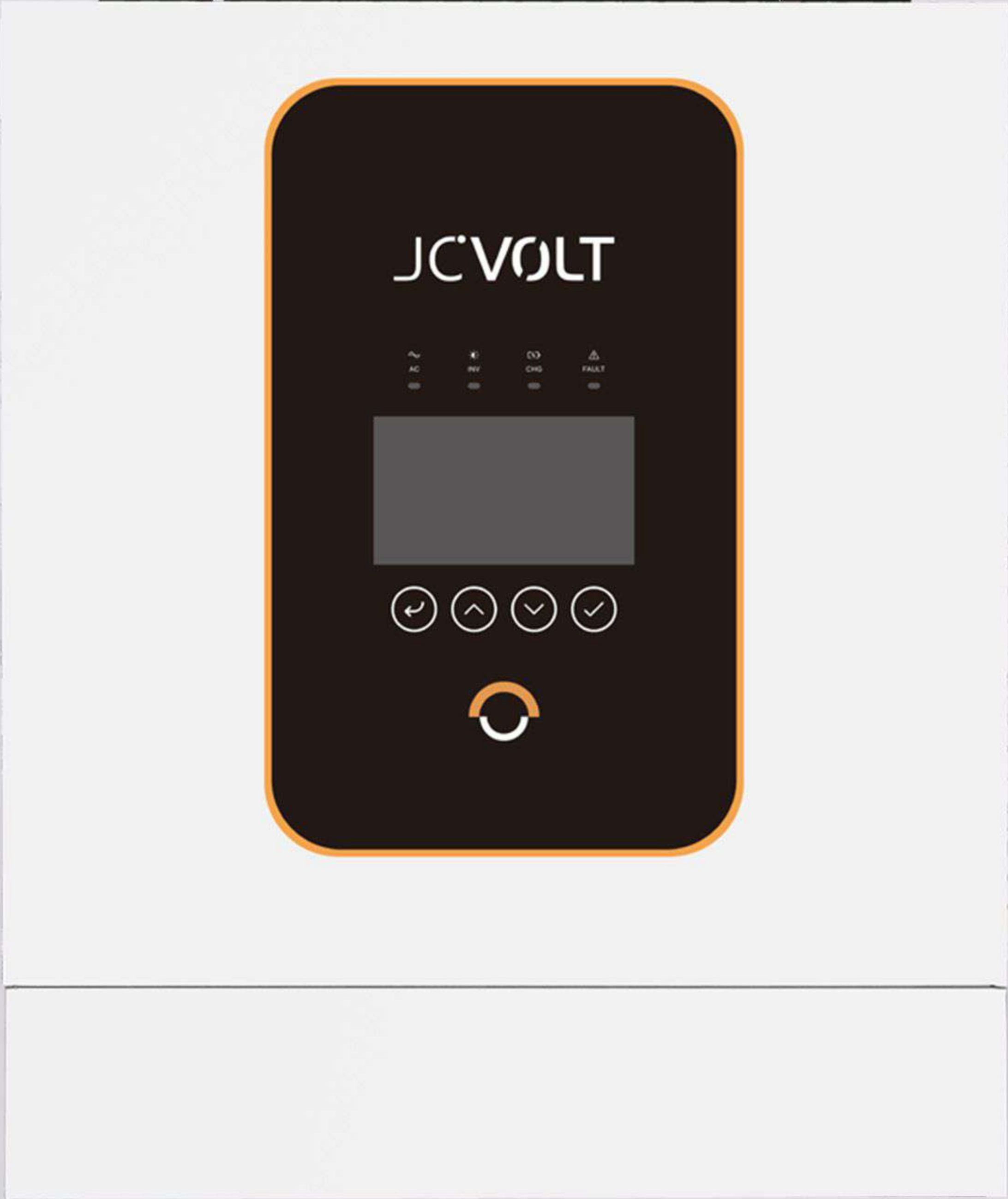


HEFEI JINGCHI NEW ENERGY CO.,LTD.

Specifications

Model	SCP6.5KW-48V
AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (kW)	6.5
Surge Power (kVA)	12
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	1min@102%~120%; 10S@ > 120%Load
Max. Efficiency (Battery Mode)	94%@48VDC
Parallel Quantity	NA
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PV Input Current / Input Power	27A / 9000W
MPPT Range@Operating Voltage (VDC)	60~450
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	120
Max AC Charge Current (A)	120
Max. Charge Current (PV + AC) (A)	120
Battery	
Rated Voltage (VDC)	48
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS232 / RS485 / USB
Monitoring	WiFi (Optional)
General Data	
Ingress Protection	IP21
Operating Temperature	-10 °C ~ 60 °C
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15 °C ~ 60 °C
Net Weight (kg)	8.0
Dimensions (W*H*D)	410x336x115mm
Max. Operating Altitude	4000m (Derating above 1000m)

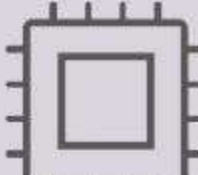
Hybrid Solar Inverter



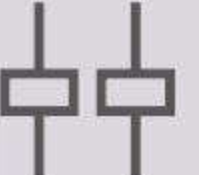
SCP12.0KW-48V



Built-in 160A
Solar Charger



Wide PV Input Voltage
Range 60-500V



Dual MPPTs
Input

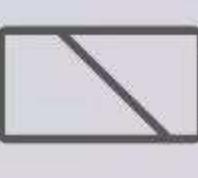


45A
MAX PV Input

DUAL
Dual AC Out



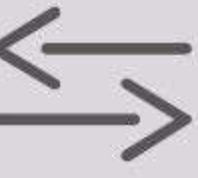
BMS
Support Lithium/
Lead-acid Battery



Lithium Battery
Activation



5 Inch Display

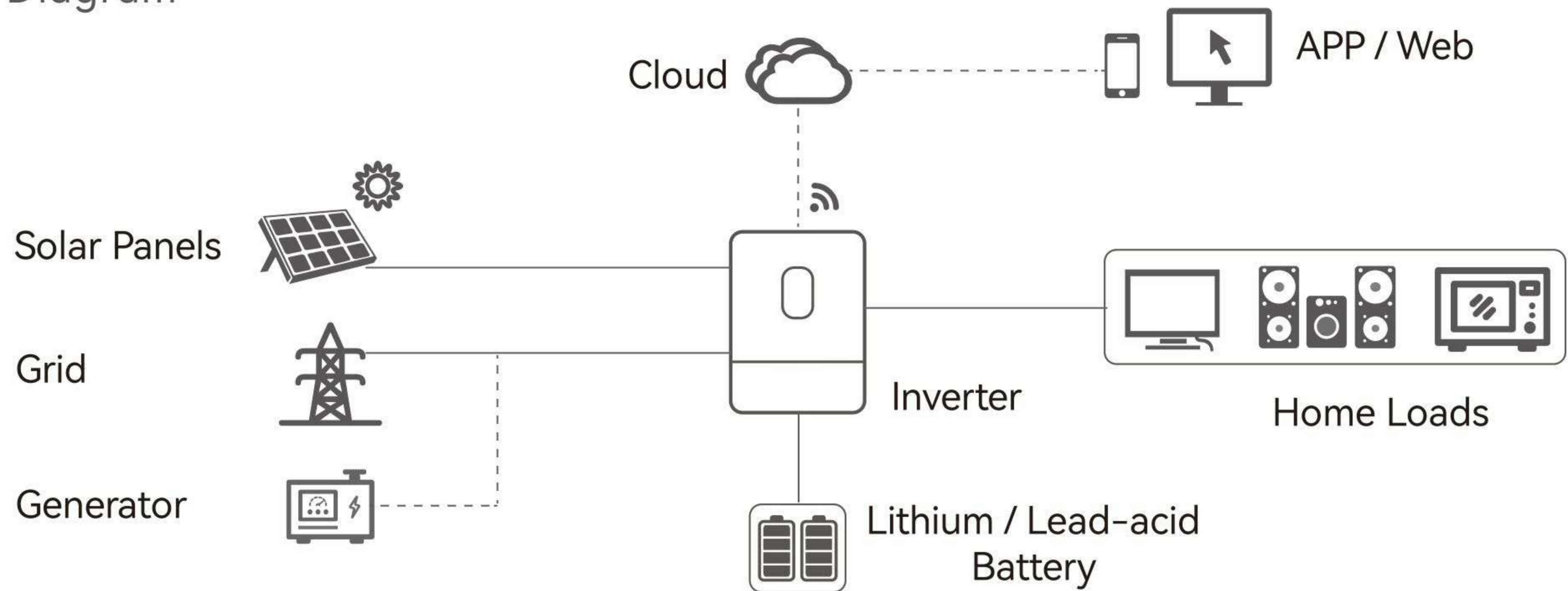


Feed-in
to Grid



WiFi
Monitoring(optional)

System Diagram



Specifications

Model	SCP12.0KW-48V
AC Input	
Rated Input Voltage (VAC)	220/230/240; L+N+PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50/60(Auto Adaptive)
AC Output	
Rated Capacity (kW)	12
Surge Power (kVA)	24
Voltage (VAC)	220/230/240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10(APP/UPS mode), 20(GEN mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	1min@102%~125%Load 10s@ > 125%Load
Max. Efficiency (Battery Mode)	94%@48VDC
Parallel Quantity	NA
Charger (PV / AC)	
Solar Charger Type	Dual MPPTs
Max. PV input Current / Input Power	Using One MPPT: 27A/9KW Using Two MPPTs: 22.5A/Per MPPT, 15kW/Total
MPPT Range@Operating Voltage (VDC)	60-450
Max. PV Open Circuit Voltage (VDC)	500
Max. PV Charge Current (A)	160
Max. AC Charge Current (A)	160
Max. Charge Current (PV + AC) (A)	160
Battery	
Rated Voltage (VDC)	48
Floating Charge Voltage (VDC)	54
Overcharge Protection (VDC)	61
Battery	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS232 / RS485 / CAN
Monitoring	WiFi (Optional)
General Data	
Ingress Protection	IP21
Operating Temperature	-10℃~60℃
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15℃~60℃
Net Weight (kg)	14
Dimensions (H*W*D)	525x435x138mm
Max. Operating Altitude	4000m(Derating above 1000m)

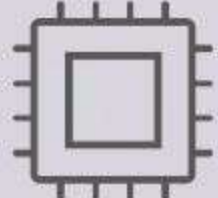
Hybrid Solar Inverter



SCP5.0KW-48V/P



Built-in 80A Solar Charger



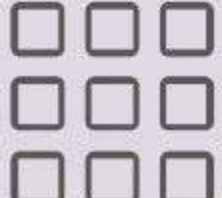
Wide PV Input Voltage Range 120~500V



Workable with Generator



DUAL Dual AC Output



9 Inverters in Parallel



BMS Support Lithium/Lead-acid Battery



Lithium Battery Activation



Detachable Dust Cover

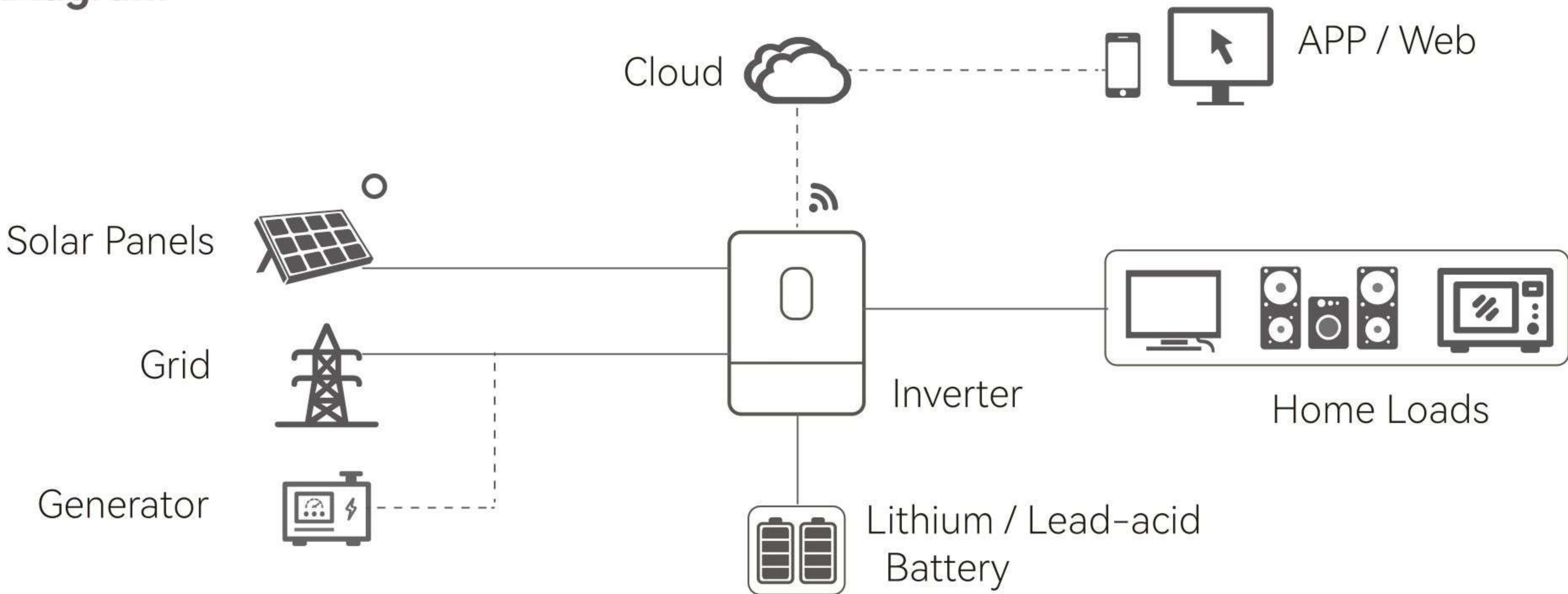


Feed-in to Grid



WiFi Monitoring(optional)

System Diagram



Specification

Model	SCP5.0KW-48V/P
AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L + N + PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (kW)	5
Surge Power (kVA)	10
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	60s@102%~110% load; 10s@110%~130% load; 3s@130%~150% load; 0.2s@>150% load
Max. Efficiency (Battery Mode)	93%@48VDC
Parallel Quantity	9
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PV Input Current / Input Power	18A / 6000W
MPPT Range@Operating Voltage (VDC)	120~450
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	80
Max AC Charge Current (A)	80
Max. Charge Current (PV + AC) (A)	80
Battery	
Rated Voltage (VDC)	48
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS485 / RS232 / USB / Dry Contact
Monitoring	WiFi (Optional)
General Data	
Ingress Protection	IP21
Operating Temperature	-10 °C ~ 50 °C
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15 °C ~ 60 °C
Net Weight (kg)	9.7
Dimensions (W*H*D)	510x306x140mm
Max. Operating Altitude	4000m (Derating above 1000m)