



SINGLE PHASE OFF-GRID INVERTER



SUN UP & GLOW



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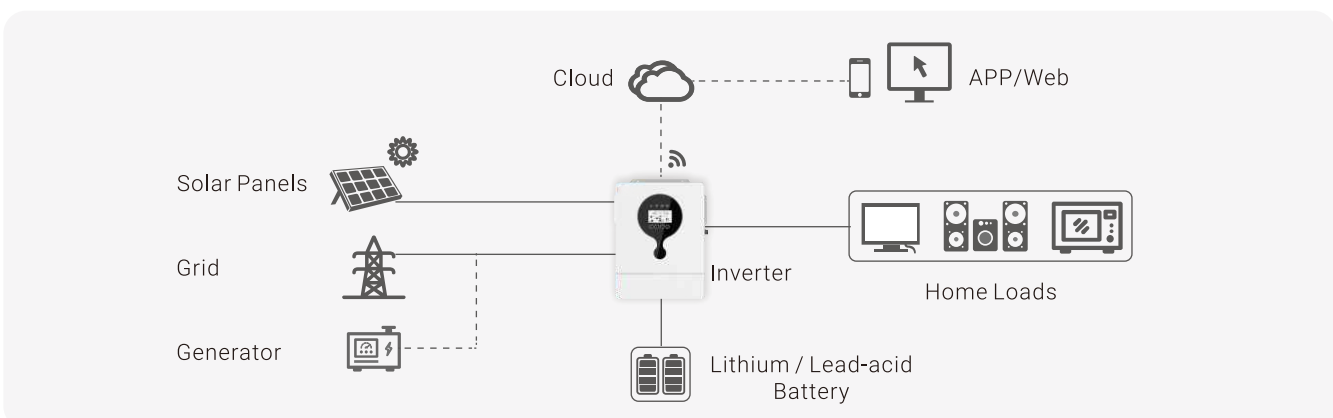
1.2kW Single Phase Off-grid Inverter

Product Features

- Built-in 50A Solar Charger
- PV Input Voltage Range 17-115V
- LCD Display
- Support Lithium/Lead-acid Battery
- Lithium Battery Activation
- WiFi Monitoring(built-in)
- Detachable Dust Cover
- Pure Sine Wave



Product Connection Diagram



Specifications

Model		SDPO-1.2KW
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 (APP/UPS/GEN mode)	
Wave Form	Pure Sine Wave	
Overload Capacity (Battery Mode)	60s@102%-120% load; 10s@120%-200% 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)	50	
Max AC Charge Current (A)	50	
Max. Charge Current (PV+ AC) (A)	100	
Battery		
Normal Voltage (VDC)	12	
Floating Charge Voltage (VDC)	13.8	
Overcharge Protection (VDC)	15	
Battery Type	Lead-acid / Lithium	
Interface		
HMI	LCD	
Interface	RS232 / RS485(optional) / CAN (optional)	
Monitoring	WiFi (optional/built-in/external)	
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 (H*W*D)	301*217*97mm	
Max. Operating Altitude	4000m (Derating above 1000m)	
Activation		
AC Activation	YES	
PV Activation	YES	

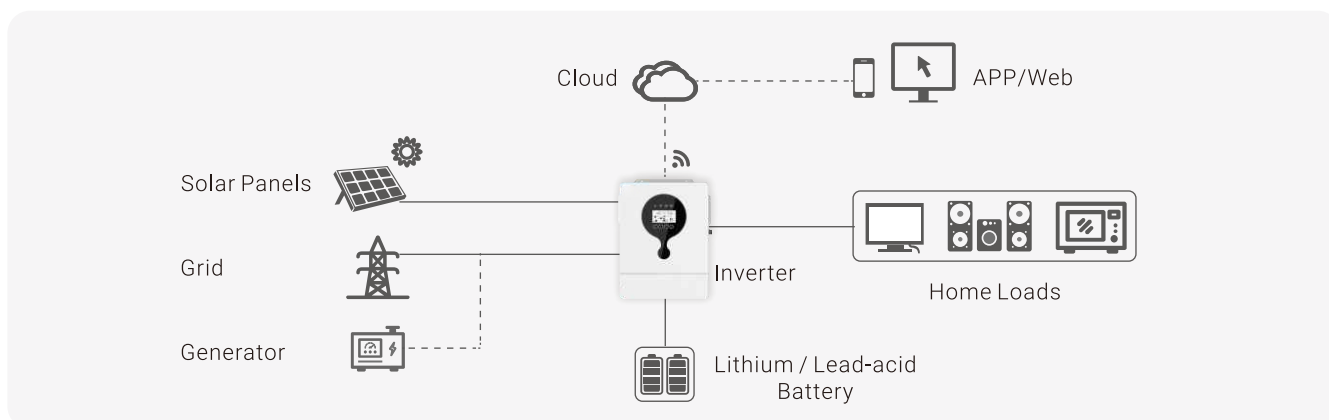
2kW Single Phase Off-grid Inverter

Product Features

- Built-in 50A Solar Charger
- PV Input Voltage Range 17-115V
- LCD Display
- Support Lithium/Lead-acid Battery
- Lithium Battery Activation
- WiFi Monitoring(built-in)
- Detachable Dust Cover
- Pure Sine Wave



Product Connection Diagram



Specifications

Model SDPO-2KW	
AC Input	
Rated Input Voltage (VAC)	230VAC;L+N+PE
Voltage Range (VAC)	90~280(APP mode/GEN mode);170~264 (UPS mode)
Frequency (Hz)	40-70Hz (APP MODE/GEN MODE) ;Set Frequency (50Hz or 60Hz) ±10Hz (UPS MODE)
AC Output	
Rated Capacity (kW)	2
Surge Power (kVA)	4
Voltage (VAC)	208/220/230/240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10ms (APP/UPS/GEN MODE);20ms(GEN MODE)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	Off grid Mode: bat+PV;Long-term @ 102% - 125% Load (No alarm reported);10s@125%-250% load
Max. Efficiency (Battery Mode)	91%@12.5VDC
Parallel Quantity	9pcs
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PV Input Current / Power	18A/3000W
MPPT Range@Operating Voltage (VDC)	30-400
Max PV Open Circuit Voltage (VDC)	450
Max PV Charge Current (A)	100
Max AC Charge Current (A)	100
Max. Charge Current (PV+ AC) (A)	100
Battery	
Normal Voltage (VDC)	12.5
Floating Charge Voltage (VDC)	13.5
Overcharge Protection (VDC)	16
Battery Type	Lead-acid / Lithium
Interface	
HMI	LCD
Interface	Rs485 / CAN
Monitoring	WiFi (optional/external)
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)	1.88
Dimensions (H*W*D)	287*241*64mm
Max. Operating Altitude	4000m (Derating above 1000m)
Activation	
AC Activation	YES
PV Activation	YES

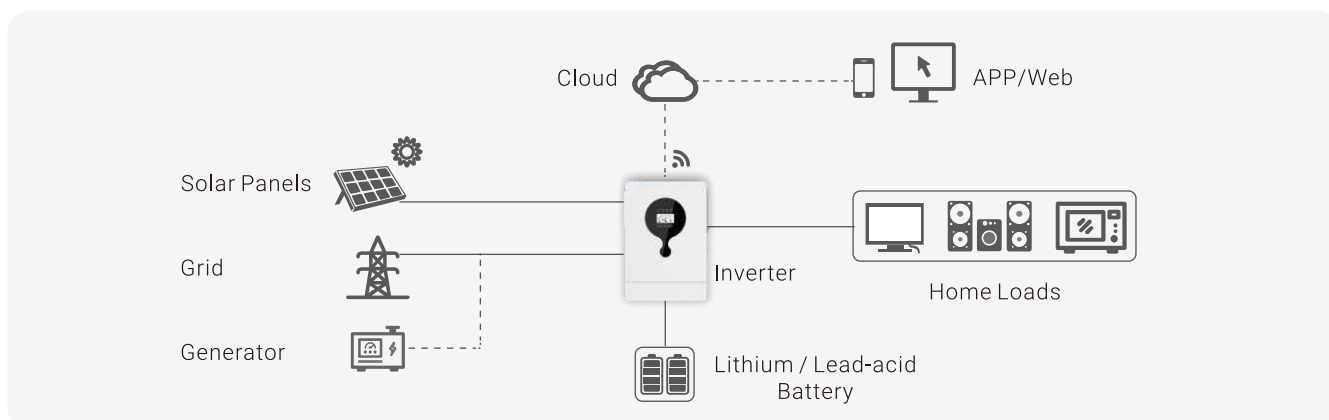
3.6kW Single Phase Off-grid Inverter

Product Features

- Built-in 100A Solar Charger
- Wide PV Input Voltage Range 40-500V
- Feed-in to Grid
- Support Lithium/Lead-acid Battery
- Lithium Battery Activation
- WiFi Monitoring(optional)
- Detachable Dust Cover
- Workable with Generator



Product Connection Diagram



Specifications

Model		SDPO-3.6KW
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 (APP/UPS/GEN mode) / 20 (GEN 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 / 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		
Normal Voltage (VDC)	24	
Floating Charge Voltage (VDC)	27	
Overcharge Protection (VDC)	30.5	
Battery Type	Lithium and Lead-acid	
Interface		
HMI	LCD	
Interface	Rs485 / CAN / RS232 / Dry Contact	
Monitoring	WiFi (optional/external)	
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)	6.4	
Dimensions (H*W*D)	420*284*94mm	
Max. Operating Altitude	4000m (Derating above 1000m)	

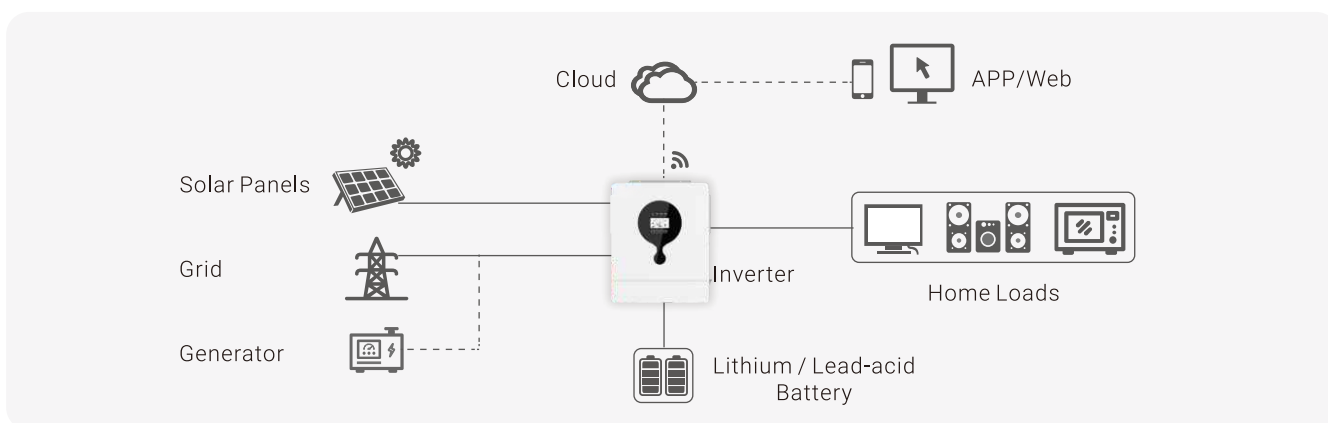
6.5kW Single Phase Off-grid Inverter

Product Features

- Built-in 120A Solar Charger
- Wide PV Input Voltage Range 60-500V
- 9 Inverters in Parallel*
- 27A MAX PV Input
- Support Lithium/Lead-acid Battery
- Lithium Battery Activation
- WiFi Monitoring(built-in)
- Feed-in to Grid
- LCD(5 Inch optional)
- Dual AC Output



Product Connection Diagram



Specifications

Model	SDPO-S6.5KW		SDPO-P6.5KW	
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%~110% load; 10s@> 110% load			
Max. Efficiency (Battery Mode)	94%@48VDC			
Parallel Quantity	NA		9	
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			
Floating Charge Voltage (VDC)	54			
Overcharge Protection (VDC)	61			
Battery Type	Lithium and Lead-acid			
Interface				
HMI	5 inch LCD			
Interface	RS232/RS485/CAN		RS232/RS485/CAN/Parallel Interface	
Monitoring	WiFi (optional/built-in/external)			
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)	8.4			
Dimensions (H*W*D)	410*336*110mm			
Max. Operating Altitude	4000m (Derating above 1000m)			

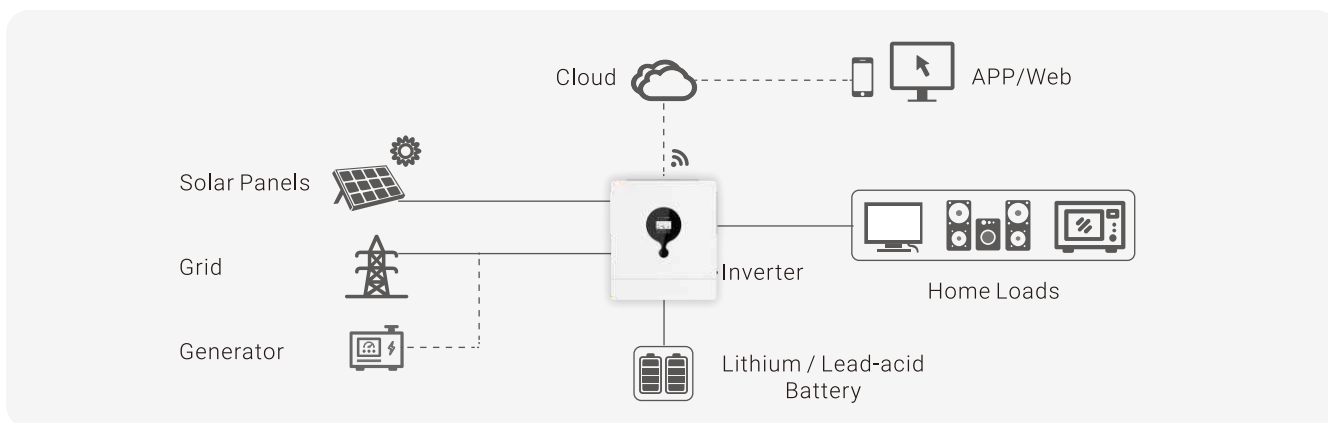
12kW Single Phase Off-grid Inverter

Product Features

- Built-in 160A Solar Charger
- Wide PV Input Voltage Range 60-500V
- Dual MPPTs Input
- 45A MAX PV Input
- Support Lithium/Lead-acid Battery
- Lithium Battery Activation
- WiFi Monitoring(built-in)
- Feed-in to Grid
- LCD(5 Inch optional)
- Dual AC Output



Product Connection Diagram



Specifications

Model	SDPO-S12KW		SDPO-P12KW
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)	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	6	
Charger (PV/AC)			
Solar Charger Type	MPPT		
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	RS232/RS485/CAN/Parallel Interface	
Monitoring	WiFi (optional/built-in/external)		
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)	15		
Dimensions (H*W*D)	495*425*120		
Max. Operating Altitude	4000m (Derating above 1000m)		