

## Hybrid Inverters

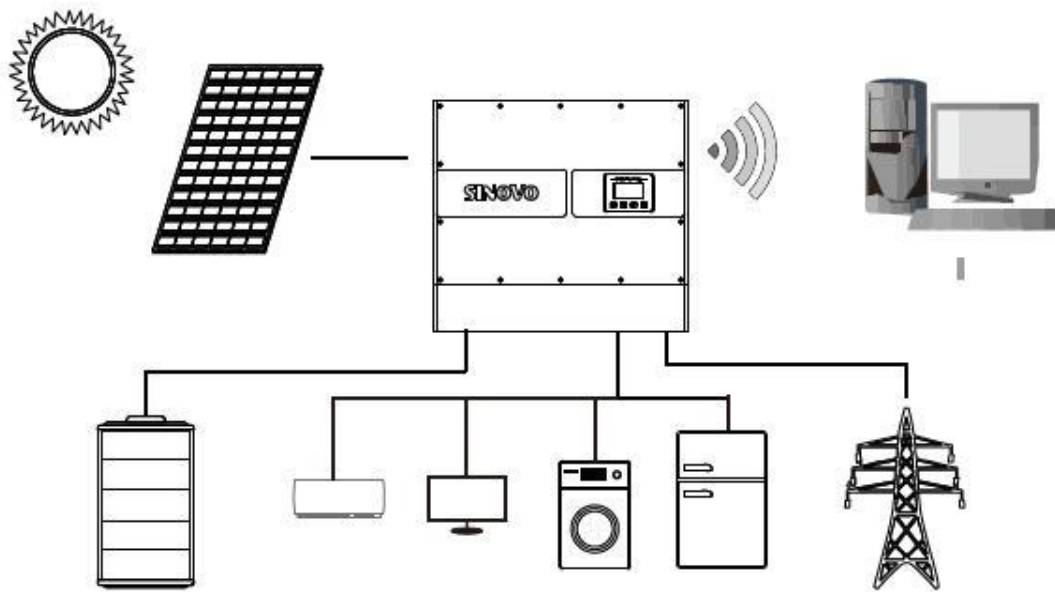
# SINOVO



### Product Detail

SINOVO Newest Generation Hybrid On and Off Solar Inverter: SE300-5048

A newly designed solar and energy storage hybrid inverter capable of installation in on-grid solar, off-grid solar, and back-up systems. This hybrid system enables a programmable and schedulable smart solar energy storage solution, helping to increase solar energy self-consumption, protect home appliances from grid shortages, and optimize energy usage strategies to save on energy bills.



### Product Specification:

Specification	Details
Model #	SE300-5048
<b>PV Input</b>	
Max DC Input Power	6000W
Rated DC Input Power	5000W
Maximum DC Input Voltage	580V
MPPT Voltage Range	125~550V
Start-up Voltage	125V
Max Input Current	11/11A
MPPT Channels	2
DC Input Channels	2
<b>Battery</b>	
Battery Types	Lead-acid, lithium battery, etc.
Input Voltage	48V (40~70V)
Maximum Charge/Discharge Power	5000W
Maximum Charge/Discharge Current	110A
Battery Capacity	50~200AH
Charging Method	2-stage / 3-stage
<b>On-grid Output</b>	
Max Input/Output Power	6000W
Max Input/Output Current	20A
UPS (Resistive Load)	Yes

Rated Output Voltage	220/230 180V~270Vac
Rated Output Frequency	50/60Hz
Power Factor	0.99, 0.8 lead ~ 0.8 lag
THDi	<3%
Grid Type	Single phase
<b>Off-grid Output</b>	
Maximum Output Power	5000W/4600W(DE)
Output Voltage	230Vac/220Vac (±2%)
Rated Output Frequency	50/60Hz
THDv	<3%
Switch Off Network Switching Time	<5ms
Overload Capability	5s@>150%; 10s@110%~150%
<b>Effectiveness</b>	
Maximum Efficiency	97.6%
European Efficiency	97.2%
MPPT Efficiency	99.9%
Battery Off-grid Output Efficiency	94.7%
<b>Certificates and Standards</b>	
Grid Standard	VDE-AR-N 4105, VDE0126-1-1, G83/2, G59/3, AS4777.2/.3
Safety	IEC62109-1&-2, AS3100, IEC62040-1
Electromagnetic Compatibility	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-3-11, EN61000-3-12
<b>General Parameters</b>	
Size	595*539*205mm
Net/Gross Weight	32/35kgs
Installation Method	Wall-mounted
Ambient Temperature	-30~60°C
Relative Humidity	0~95%
Working Elevation	<3000m
Protection Level	IP65
Standby Power Consumption	<5W
Cooling Method	Natural cooling
Noise	<25dB
Display	LCD & APP
Communication	CAN, WIFI, RS485, RS232
Warranty	5 years
DC Switch	Integrated

## Features:

- Integrated design of photovoltaic energy storage inverter.
- Both grid-tied and off-grid functions.
- Works without a battery during the daytime.
- Supports lead-acid or lithium cells.
- Maximum efficiency of more than 97.6%.
- Dual MPPT tracking with efficiency greater than 99.9%.
- ZCT soft switch technology for minimal loss.
- IP65 protection level, suitable for outdoor use.
- Supports RS485, RS232, WIFI, and GPRS communication.
- Fan-less design with noise less than 25db.
- 21 protection functions for safety and reliability.
- 5 years warranty and 25 years repair time.