

Product Features

High Efficiency

- ✓ Integrated output isolation transformer
- ✓ With bi-directional converter to charge or discharge batteries
- ✓ Optional modes for charging, including constant current charging, equalized charging and floating charging

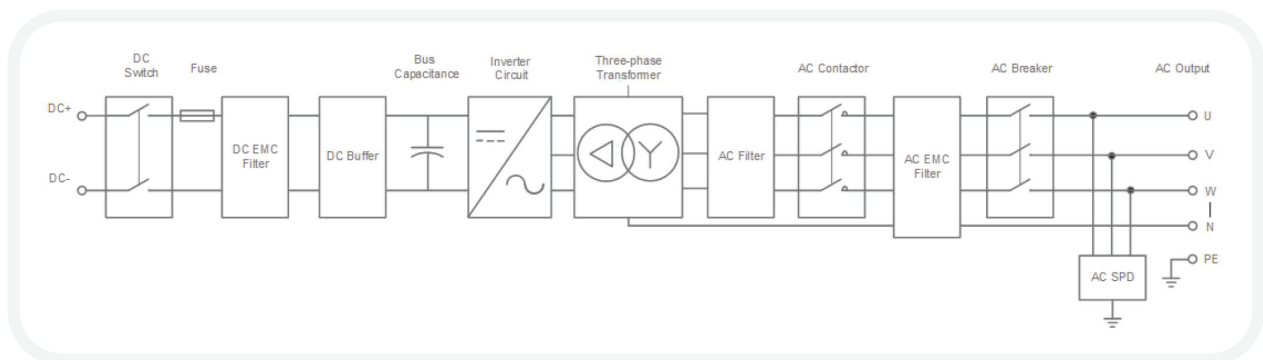
Power grid adaptability

- ✓ Meeting the smart grid design specification and allowing power grid dispatching
- ✓ Advanced islanding detection technology
- ✓ Reactive power compensation and other functions
- ✓ Off-grid independent operation

System characteristics

- ✓ Complete isolation of batteries from the power grid
- ✓ Charging and discharging time setting for 12 segments, battery for customer's on-site applications
- ✓ On/Off grid switching time: General conditions <200 ms; zero transition can be achieved under specific conditions (External connection of SCR)
- ✓ Four periods of time (Peak, flat, valley and sharp) price setting, flexible calculation of user profitability

Function Diagram



SPECIFICATIONS

Items	SCS100K-W	SCS250K-W	SCS500K-W
DC input			
MAX. DC voltage	1000Vdc		
DC voltage range	500 Vdc~900 vDC		
Max. DC current	228 A	566 A	1125A
Auto buffering function	Yes		
Grid-tied AC output			
Rated AC output power	100kW	250kW	500kW
Max. AC output power	110kVA	275kVA	550kVA
Rated output voltage	400Vac		
Output voltage range	-15%~10% (settable)		
Grid frequency range	50Hz (45Hz~55Hz settable)/60Hz (55Hz~65Hz settable)		
Max. output current	159A	397A	794A
Power factor	>0.99 (at rated power)/1 (leading)~1 (lagging)		
THDi	<3% (at rated power)		
Off-grid AC output			
Rated AC output voltage	400Vac		
Output voltage accuracy	1%		
Max. output current	159A	397A	794A
THDu	<1% (linear load)		
Rated output frequency	50Hz/60Hz		
Overloading capability	110% overland		
Efficiency			
Max. efficiency	96.40%	97.20%	97.60%
General data			
Isolation mode	Yes		
IP grade	IP20 (IP21 Optional)		
Operation temperature	-30°C~60°C (>45°C derating)		
Relative humidity	0~95% (No condensation)		
Cooling type	Intelligent forced air cooling		
Dimensions (W×H×D)	800×1800×800mm	700x960x267mm	1400×1950×1000mm
Weight	730kg	1450kg	2050kg
Altitude	5000m (>3000m derating)		
Display	Touch screen		
Communication protocol	Modbus-RTU / Modbus-TCP		
Communication interface	RS485 (standard) / Ethernet (optional)		
Standard	GB/T 34120-2017, IEC62477-1, DIN EN 62477-1:2012/A1:2017, EN61000-6-2:2005, EN61000-6-4:2007/A1:2011, VDE-AR-N4110:2018-11		

*Specification indexes may be subject to changes without further notice.