

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

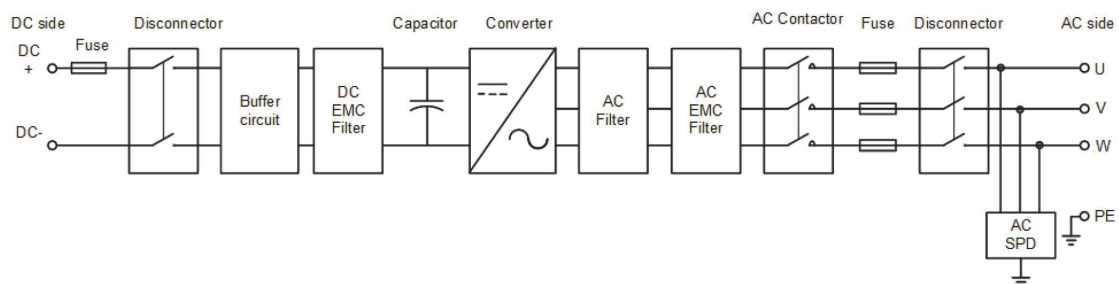
Power grid adaptability

- ✓ 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

- ✓ Wide DC working voltage range
- ✓ Compact size, light weight, easy for installation on the site
- ✓ Supporting multi-unit parallel connection function, expandable to MW power level
- ✓ Single machine system is able to independently manage the peak load shifting in the operation without EMS system

Function Diagram



SPECIFICATIONS

Items	SCS100K-N	SCS250K-N	SCS500K-N
DC input			
MAX. DC voltage	1000Vdc		
DC voltage range	500 Vdc~900 vDC		600-900Vdc
Max. DC current	463A	926A	1166A
Auto buffering function	Yes		
Grid-tied AC output			
Rated AC output power	250kW	500kW	630kW
Max. AC output power	275kVA	550kVA	693kVA
Rated output voltage	315/400Vac (@600~900Vdc)		400Vac
Output voltage range	-15%~10% (settable)		
Grid frequency range	50Hz (45Hz~55Hz settable)/60Hz (55Hz~65Hz settable)		
Max. output current	397A (@400V)	794A (@400V)	1000A
Power factor	>0.99 (at rated power)/1 (leading)~1 (lagging)		
THDi	<3% (at rated power)		
Off-grid AC output			
Rated AC output voltage	315/400Vac (@600~900Vdc)		400Vac
Output voltage accuracy	1%		
Max. output current	397A (@400V)	794A (@400V)	1000A
THDu	<1% (linear load)		
Rated output frequency	50Hz/60Hz		
Overloading capability	110% overland		
Efficiency			
Max. efficiency	98.80%	99.01%	99.03%
General data			
Isolation mode	None		
IP grade	IP20		
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)	1100×1950×700mm		
Weight	700kg		
Altitude	5000m (>3000m derating)		
Display	Touch screen		
Communication protocol	Modbus-RTU/Modbus-TCP/IEC61850		
Communication interface	RS485/Ethernet		
Standard	GB/T 34120-2017, IEC62477-1, EN61000-6-2:2005, EN61000-6-4:2007/A1:2011		

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