

# Product Features

## Highly Integrated

- ✓ Efficient layout to improve space utilization
- ✓ Secondary circuit integration, unified measurement, protection and communication
- ✓ Integrated design of “converter” and “step-up” to realize the integrated delivery of products

## Lean intelligence

- ✓ Unified external communication interface, rapid deployment and debugging
- ✓ Integrated data acquisition and optical fiber network, intelligent operation management
- ✓ H/LVRT function, high adaptation ability to the grid

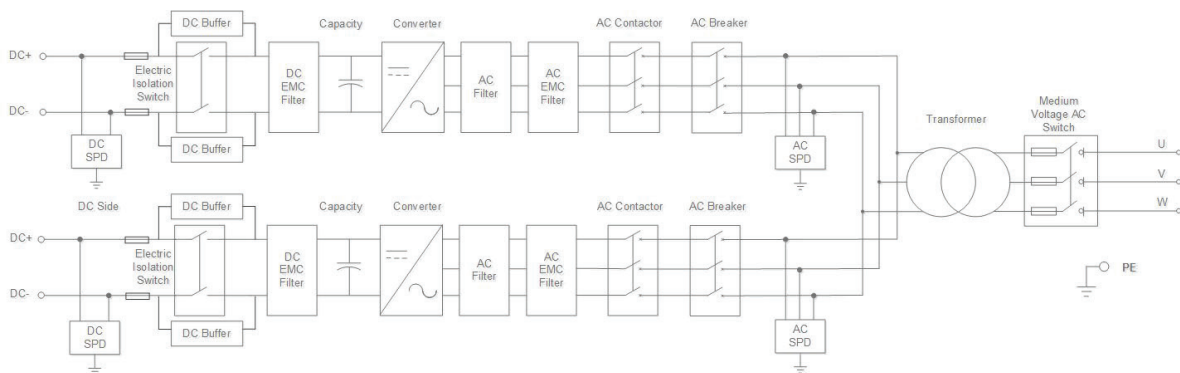
## Efficient and stable

- ✓ Advanced ANPC three-level topology, max. converter efficiency 99.03%
- ✓ Adapt to high temperature, salt, and extreme cold etc. environment
- ✓ 1.1 times long-term overload, 50°C full load operation

## Flexible configuration

- ✓ Support multi-machine parallel connection, VSG, PQ, VF, cold start and other functions
- ✓ Wide DC voltage range for 1500V system
- ✓ Various applications such as peak shaving, frequency modulation, auxiliary grid connection for new energy system, etc.

## Function Diagram



# SPECIFICATIONS

Items	SCS2000K-P-HUD/T	SCS2500K-P-HUD/T	SCS3000K-P-HUD/T	SCS3450K-P-HUD/T
DC input				
MAX. DC voltage	1500Vdc			
DC voltage range	700-1500Vdc	800-1500 Vdc	900-1500 Vdc	1000-1500 Vdc
Max. DC current	3206A	3508A	3742A	3872A
Auto buffering function	Yes			
Grid-tied AC output				
Rated AC output power	2000kW	2500kW	3000kW	3450kW
Max. AC output power	2200kW	2750kVA	3300kVA	3795kVA
Rated grid-tied voltage	440Vac	550Vac	600Vac	690Vac
Grid voltage range	-15%~10% (settable)			
Grid frequency range	50Hz/60Hz			
Max. output current	2886A	2886A	3176A	3176A
Adjustable power factor	>0.99 (at rated power)/1 (leading)~1 (lagging)			
THDi	<3% (at rated power)			
Off-grid AC output				
Rated AC output voltage	440Vac	550Vac	600Vac	690Vac
Output voltage accuracy	1%			
Max. output current	2886A	2886A	3176A	3176A
THDu	<3% (liner load)			
Rated output frequency	50Hz/60Hz			
Overloading capability	110% overland			
PCS Efficiency				
Max. efficiency	99.03%			
Transformer efficiency				
Rated power	2000kVA	2500kVA	3000kVA	3450kVA
Voltage transformation ratio	0.44/(6-35)kV	0.55/(6-35)kV	0.6/(6-35)kV	0.69/(6-35)kV
Isolation mode	oil-immersed transformer or dry type transformer			
General data				
IP grade	IP55			
Operation temperature	-35°C~60°C (>50°C derating)			
Relative humidity	0~100% (no condensation)			
Cooling type	Intelligent forced air cooling			
Dimensions (W×H×D)	6058×2896×2438mm			
Weight	13000kg			
Altitude	5000m (>3000m derating)			
Display	Touch screen			
Communication protocol	Modbus-RTU / Modbus-TCP / IEC61850 /IEC104			
Communication interface	RS485/Ethernet			
Standard	GB/T 34120, IEC62477, EN61000, EN62116			

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