

Three-phase Energy Storage Converter (Isolated Type)

BCS100~500K-A



Product Features

High efficiency

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

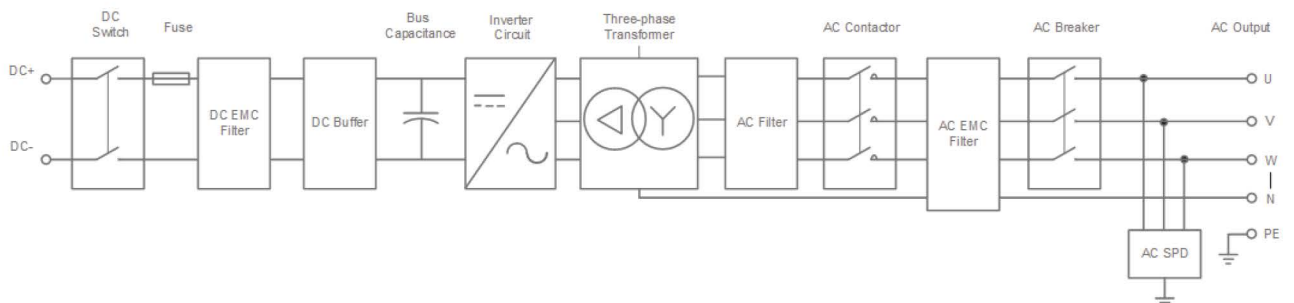
Power grid adaptability

- 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

- Completely isolation of batteries from the power grid
- Charging and discharging time setting for 12 segments, better for customer's on-site applications
- On/off grid switching time: general conditions <200ms; 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



Stock Code
002335.SZ

Technical Specification

Items	BCS100K-A	BCS250K-A	BCS500K-A
DC input			
Max. DC voltage	1000Vdc		
DC voltage range	500Vdc~900Vdc		
Max. DC current	228A	566A	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)		
Rated grid frequency	50Hz (45Hz~55Hz settable)/60Hz (55Hz ~65Hz settable)		
Max. output current	159A	397A	794A
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	400Vac		
Output voltage precision	1%		
Max. output current	159A	397A	794A
THDu	<1% (linear load)		
Rated output frequency	50Hz /60Hz		
Overloading capability	110% overload		
Efficiency			
Max. efficiency	96.40%	97.20%	97.60%
General data			
Isolation transformer	Yes		
IP grade	IP20 (IP21 optioanl)		
Operation temperature	-30℃ ~65℃ (>45℃ derating)		
Relative humidity	0~95% (no condensation)		
Cooling type	Intelligent forced air cooling		
Dimensions (W×H×D)	800×1800×800mm	1000×1950×800mm	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.

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