

1500Vdc Energy Storage Converter

BCS1250K~1725K-B-HUD



Product Features

High efficiency

- Advanced ANPC three-level topology, max. converter efficiency 99.03%
- Wide DC voltage range for 1500V system
- 1.1 times long-term overload, 45°C full load operation

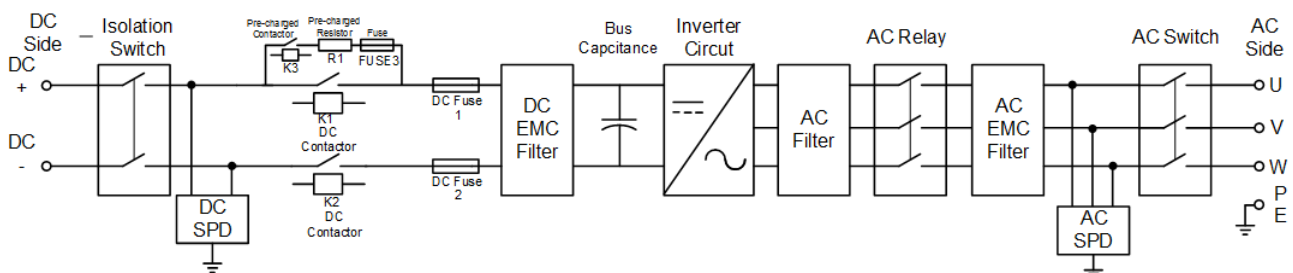
Power grid adaptability

- Adapt to high temperature, salt, and extreme cold etc. environment
- IP55 design, IP65 and C5 anti-corrosion grade optional
- Unified external communication interface, support IEC61850

Lean intelligence

- Smart online upgrade, easy for system maintenance
- Support multi-machine parallel connection, VSG, PQ, VF, black-start and other functions
- H/LVRT function, high adaptation ability to the grid
- Various applications such as peak shaving, frequency modulation, auxiliary grid connection for new energy system, etc.

Function Diagram



Technical Specification

Items	BCS1250K-B-HUD	BCS1500K-B-HUD	BCS1725K-B-HUD
DC input			
Max. DC voltage	1500Vdc		
DC voltage range	800-1500 Vdc	900-1500 Vdc	1000-1500 Vdc
Max. DC current	1753A	1870A	1936A
Auto-buffering function	Yes		
Grid-tied AC output			
Rated AC output power	1250kW	1500kW	1725kW
Max. AC output power	1375kW	1650kVA	1897.5kVA
Rated grid-tied voltage	550Vac	600Vac	690Vac
Grid voltage range	-15%~10% (settable)		
Rated grid frequency	50Hz/60Hz		
Max. output current	1443A	1588A	1588A
Power factor	>0.99 (at rated power)		
Adjustable power factor	1 (leading)~1 (lagging)		
THDi	<3% (at rated power)		
Off-grid AC output			
Rated AC output voltage	550Vac	600Vac	690Vac
Output voltage precision	1%		
Max. output current	1443A	1588A	1588A
THDu	<3% (liner load)		
Rated output frequency	50Hz/60Hz		
Overloading capability	110% overload		
PCS efficiency			
Max. efficiency	99%		
General data			
Isolation mode	None		
IP grade	IP55 (IP65 optional)		
Operation temperature	-35°C~60°C (>45°C derating)		
Relative humidity	0~100% (no condensation)		
Cooling type	Intelligent forced air cooling		
Dimensions (W×H×D)	860×2270×1725mm		
Weight	1500kg		
Altitude	4000m (>3000m customized)		
Display	Touch screen		
Communication protocol	Modbus-RTU, Modbus-TCP, IEC61850, IEC104		
Communication interface	RS485, Ethernet		
Standard	IEC62477-1, EN61000		

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

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