1500Vdc Energy Storage Converter

BCS1250K~1725K-B-HUD Series

Secure Reliable

- On-line insulation detection
- Designed for extreme environment,such as high temperature (50ºC without derating), salt spray, and extreme cold etc.

Excellent Performance

- Maximum efficiency up to 99%, minimizing energy loss during conversion
- Noise ≤ 75dBA with full-load operation

Grid Friendly

- Support GFM function with millisecond response
- Various applications such as VSG, frequency regulation, black-start, etc.
- High adaptability to the grid with low SCR

Intelligent O&M

- Power unit is modularly designed and easy to maintain.
- Multiple communication interfaces (RS485, Ethernet) enable remote O&M and data acquisition
- Intelligent air cooling with adaptive fan control, reducing energy consumption and maintenance frequency



Technical Specification

Items	BCS1250K-B-HUD	BCS1500K-B-HUD	BCS1725K-B-HUD
DC input			
Max. DC voltage	1500Vdc		
DC voltage range	1000-1500Vdc		
Max. DC current	1403A	1683A	1936A
Soft start	Yes		
AC output (on-grid)			
Rated AC output power	1250kW	1500kW	1725kW
Max. AC output power	1375kVA	1650kVA	1897.5kVA
Rated grid-tied voltage	690Vac 3P3W+PE		
Grid voltage range	-15%~10% (settable)		
Grid frequency range	50/60Hz		
Max. output current	1151A	1381A	1588A
Power factor	>0.99 (at rated power)		
Adjustable power factor	1 (leading)~1 (lagging)		
THDi	<3% (at rated power)		
Ac output (off-grid)			
Rated AC output voltage	690Vac		
Output voltage accuracy	1%		
Max. output current	1151A	1381A	1588A
THDu	<3% (linear load)		
Rated output frequency	50/60Hz		
Overload capability	110% overload		
PCS efficiency			
Max. efficiency	99%*		
General data			
Isolation mode	None		
IP rating	IP55		
Operation temperature	-35ºC~60ºC (>50ºC derating)		
Relative humidity	0~100% (no-condensing)		
Cooling type	Intelligent air cooling		
Dimensions (W×H×D)	860×2270×1909mm		
Weight	1580kg		
Altitude	4000m (>2000m derating)		
Display	Touch screen		
Communication protocol	Modbus-RTU, Modbus-TCP, IEC61850, IEC104		
Communication interface	RS485, Ethernet		
Compliance	IEC EN 62477-1, EN IEC 61000-6-2/4, EN 50549-2/10, IEC 60068-2-1/2/14/30, EN 55011		

- * This efficiency value was measured in a laboratory environment.
- * Specification indexes may be subject to changes without further notice.