1500Vdc Energy Storage Converter

BCS3150K~3500K-C-HUD-EP Series

Secure Reliable

- 24/7 On-line insulation detection, ensure personnel and equipment safety
- AC/DC copper busbar temperature detection, ensure connection reliability
- Noise ≤ 75dBA, better protecting the hearing of personnel

Excellent Performance

- IP65 & C5M high adaptability to extreme environments
- Patented liquid cooling, without derating @50 ℃
- Innovative top air outlet design, avoid heat island effect

Grid Friendly

- H/LVRT function, high adaptability to the grid
- Full-station grid-forming technology, supports black start & VSG functions
- Support operation under extremely weak grid conditions, SCR>1.0

Intelligent O&M

- Two-way air duct & Self-cleaning, reduce maintenance frequency by 60%
- Power-module design, supporting independent O&M
- Support user log querying and fault recording waveform exporting, enhance O&M efficiency



Technical Specification

Items	BCS3150K-C-HUD-EP	BCS3500K-C-HUD-EP
DC input		
Max. DC voltage	1500Vdc	
DC voltage range	1000-1500Vdc	
Max. DC current	3536A / 1768A*2	3928A / 1964A*2
DC connect number	1 / 2	
Soft start	Yes	
AC output (on-grid)		
Rated AC output power	3150kW	3500kW
Max. AC output power	3465kVA	3850kVA
Rated grid-tied voltage	690Vac	
Grid voltage range	-15%~10% (settable)	
Grid frequency range	50/60Hz	
Max. output current	2900A	3222A
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	2900A	3222A
THDu	<3% (linear load)	
Rated output frequency	50/60Hz	
Overload capability	110% overload	
PCS efficiency		
Max. efficiency	99%*	
General data		
IP rating	IP65	
Operation temperature	-35ºC~60ºC (>50ºC derating)	
Relative humidity	0~100% (no-condensing)	
Cooling type	Liquid cooling	
Dimensions (W×H×D)	1200×2450×1250mm	
Weight	1700kg	
Altitude	4000m (>2000m derating)	
Display	LED	
Communication protocol	Modbus-RTU, Modbus-TCP, IEC61850, IEC104	
Communication interface	RS485, CAN, Ethernet	
Compliance	EN/IEC 62477-1,EN/IEC 61000-6-2,EN50549-2/10,IEC62116,IEC61727,IEC60068-2-1/2/14/30,IEC61683	

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