

1500Vdc Containerized Energy Storage & Transformer Turnkey System

BCS2500K~3450K-B-HUD/T Series



Safe

- On-line insulation detection
- Adapt to extreme environment,such as high temperature, salt, and extreme cold etc.
- Real-time transformer condition monitoring



Smart

- Support multi-machine parallel connection & black-start
- 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.



Simple

- Integrated data acquisition and optical fiber network, intelligent operation management
- Efficient layout to improve space utilization
- Integrated design of converter and transformer system to achieve the integrated delivery



Technical Specification

Items	BCS2500K-B-HUD/T		BCS3000K-B-HUD/T		BCS3450K-B-HUD/T	
DC input						
Max. DC voltage	1500Vdc					
DC voltage range	1000-1500Vdc					
Max. DC current	3086A		3366A		3872A	
Soft start	Yes					
AC output (On-grid)						
Rated AC output power	2500kW		3000kW		3450kW	
Max. AC output power	2750kVA		3300kVA		3795kVA	
Rated grid-tied voltage	690Vac 3P3W+PE					
Grid voltage range	-15%~10% (settable)					
Grid frequency range	50Hz					
Max. output current	2302A		2762A		3176A	
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	2302A		2762A		3176A	
THDu	<3% (liner load)					
Rated output frequency	50Hz					
Overload capability	110% overload					
PCS efficiency						
Max. efficiency	99%					
Transformer efficiency						
Rated power	2500kVA		3000kVA		3450kVA	
Voltage transformation ratio	0.69/(6-35)kV					
Isolation mode	oil-immersed transformer or dry type transformer					
General data						
IP rating	IP54					
Operation temperature	-35°C~60°C (>45°C derating)					
Relative humidity	0~100% (no-condensing)					
Cooling type	Intelligent air cooling					
Dimensions (W×H×D)	6058×2896×2438mm					
Weight	13000kg					
Altitude	4000m (>2000m derating)					
Display	Touch screen (optional)					
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, NC RfG, IEC 62116, IEC 61727					

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