

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℃~60℃ (>45℃ 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.