

MV Power Conversion Integrated System

BCS4000K~5000K-C-HUD/T4 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

- Grid forming technology, providing extra inertial support.
- Millisecond-level power response, stable power grid operation.
- Multiple functions, including Black-Start and VSG etc.



Simple

- Integrated design of converter and transformer system, integrated system, Integrated data acquisition and optic fiber network.
- Wide DC voltage operation range, flexible configuration.
- Adapt to multiple scenarios, including power generation side, grid side and user side application, supporting multi-device parallel.



Technical Specification

Items	BCS4000K-C-HUD/T4	BCS5000K-C-HUD/T4
DC input		
Max. DC voltage	1500Vdc	
DC voltage range	1000-1500Vdc	
Max. DC current	1122A*4	1403A*4
Soft start	Yes	
AC output (On-grid)		
Rated AC output power	4000kW	5000kW
Max. AC output power	4400kVA	5500kVA
Rated grid-tied voltage	690Vac 3P3W+PE	
Grid voltage range	-15%~10% (settable)	
Grid frequency range	50/60Hz	
Max. output current	3682A	4602A
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	3682A	4602A
THDu	<3% (liner load)	
Rated output frequency	50/60Hz	
Overload capability	110% overload	
PCS efficiency		
Max. efficiency	99%*	
Transformer		
Rated power	4000kVA	5000kVA
Voltage transformation ratio	0.69/(10~33)kV (Can be customized)	
Isolation mode	oil-immersed transformer	
General data		
IP rating	IP65(PCS) IP54(Skid)	
Operation temperature	-35°C~60°C (>45°C derating)	
Relative humidity	0~100% (no-condensing)	
Cooling type	Intelligent air cooling	
Dimensions (W×H×D)	12192×2896×2438mm	
Weight	<27000kg	<28000kg
Altitude	<2000m	
Display	LED	
Communication protocol	Modbus-RTU, Modbus-TCP, IEC61850, IEC104	
Communication interface	RS485, CAN, Ethernet	

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

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