

1500V Energy Storage Converter

BCS1000K~1250K-C-HUD Series



Product Features



Efficient Conversions

- New three-level topology technology, maximum efficiency $\geq 99\%$
- Support 40°C 1.1 times overload, 50°C no derating
- Intelligent temperature control technology for more balanced heat dissipation



Flexible Configurations

- High power density with a footprint of only 0.95m²
- Quad network port communication, supporting IEC 61850 protocols
- Modular design, support multiple parallel connection



Grid Friendly

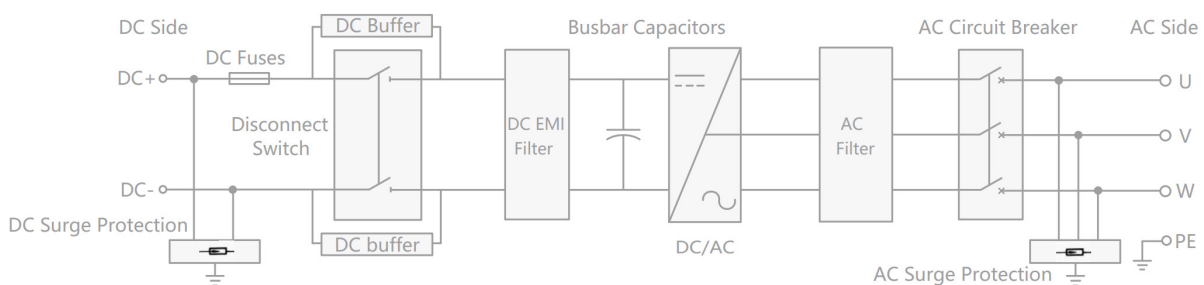
- Millisecond level response to EMS command.
- Support grid-forming function.
- Supports multi-mode switching such as VSG, Black-Start, VF, PQ, etc.



Safe and reliable

- On-line insulation testing for AC and DC
- IP65 protection, supports C5 corrosion protection

Circuit diagram



Technical Specification

Items	BCS1000K-C-HUD	BCS1250K-C-HUD
DC input		
Max. DC voltage	1500Vdc	
Full load DC voltage range	1060~1500Vdc	
Max. DC current	1122A	1403A
Soft start	Yes	
AC output (On-grid)		
Rated AC output power	1000kW	1250kW
Max. AC output power	1100kVA	1375kVA
Rated grid-tied voltage	690Vac	
Grid voltage range	-15%~10%(settable)	
Rated grid frequency	50Hz	
Max. output current	920.4A	1150.6A
Power factor/Adjustable range	>0.99(at ratedpower)/-1(leading)~1(lagging)	
Range of reactive power	-100 % - 100 %	
THDi	<3%(at rated power)	
AC output (Off-grid)		
Rated AC output voltage	690Vac	
Output voltage accuracy	1%	
Max. output current	920.4A	1150.6A
THDu	≤3%(liner load)	
Rated output frequency	50Hz	
Overload capability	110% overload	
PCS efficiency		
Max. efficiency	≥99%	
General data		
Isolation mode	None	
*Dimensions (W×H×D)	735*2135*1300 mm	
*Weight	About 950kg	
IP rating	IP65	
Cooling type	Intelligent air cooling	
Altitude	4000m(>2000m derating)	
Operation temperature	-35 C ~60 C (> 50 C derating)	
Relative humidity	0~100%(no-condensing)	
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	

*Reference only, subject to project product drawings.

■ Specifications are subject to change without notice.

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