# 1500V Energy Storage Converter

## BCS1000K~1250K-C-HUD Series

### Secure Reliable

- On-line insulation detection
- Designed for extreme environments, such as high temperature (50ºC without derating), salt spray, and exteme cold
- Real-time monitoring of copper bar temperature to ensure machine safety

### Grid Friendly

- Support GFM  function with millisecond response
- Various applications such as VSG, frequency regulation, and black-start
- High adaptability to the grid with low SCR

### Excellent Performance

- Maximum efficiency up to 99%, minimizing energy loss during conversion
- Noise ≤ 75dBA with full-load operation
- Air duct self-cleaning with function of fan reverse dust removal

### Intelligent O&M

- Power unit is modularly designed and easy to maintain
- Multiple communication interfaces (RS485, Ethernet) enable remote O&M and data acquisition
- Intelligent air cooling with adaptive fan control, reducing energy consumption and maintenance frequency




## Technical Specification

| Items | BCS1000K-C-HUD | BCS1250K-C-HUD |
|---|---|---|
| **DC input** | | |
| Max. DC voltage | 1500Vdc | |
| DC voltage range | 1000~1500Vdc | |
| 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 | >0.99(at ratedpower) | |
| Adjustable range | 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 | 920.4A | 1150.6A |
| THDu | ≤3%(linear load) | |
| Rated output frequency | 50Hz | |
| Overload capability | 110% overload | |
| **PCS efficiency** | | |
| Max. efficiency | ≥99%* | |
| **General data** | | |
| Isolation mode | None | |
| Dimensions (W×H×D) | 735×2135×1650mm | |
| Operation temperature | -35ºC~60ºC(> 50ºC derating) | |
| Relative humidity | 0~100%(no-condensing) | |
| Cooling type | Intelligent air cooling | |
| Weight | 950kg | |
| IP rating | IP65 | |
| 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 EN55011 | |

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