

# 1500Vdc Energy Storage Converter

## BCS1250K~1725K-B-HUD Series



### Safe

- On-line insulation detection
- Adapt to extreme environment, such as high temperature, salt, and extreme cold etc.



### 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

- Efficient layout to improve space utilization
- Secondary circuit integration, unified measurement, protection and communication



# Technical Specification

| Items                   | BCS1250K-B-HUD                                                               | BCS1500K-B-HUD | BCS1725K-B-HUD |
|-------------------------|------------------------------------------------------------------------------|----------------|----------------|
| DC input                |                                                                              |                |                |
| Max. DC voltage         | 1500Vdc                                                                      |                |                |
| DC voltage range        | 1000-1500Vdc                                                                 |                |                |
| Max. DC current         | 1403A                                                                        | 1683A          | 1936A          |
| Soft start              | Yes                                                                          |                |                |
| AC output (On-grid)     |                                                                              |                |                |
| Rated AC output power   | 1250kW                                                                       | 1500kW         | 1725kW         |
| Max. AC output power    | 1375kVA                                                                      | 1650kVA        | 1897.5kVA      |
| Rated grid-tied voltage | 690Vac 3P3W+PE                                                               |                |                |
| Grid voltage range      | -15%~10% (settable)                                                          |                |                |
| Grid frequency range    | 50Hz                                                                         |                |                |
| Max. output current     | 1151A                                                                        | 1381A          | 1588A          |
| 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     | 1151A                                                                        | 1381A          | 1588A          |
| THDu                    | <3% (liner load)                                                             |                |                |
| Rated output frequency  | 50Hz                                                                         |                |                |
| Overload capability     | 110% overload                                                                |                |                |
| PCS efficiency          |                                                                              |                |                |
| Max. efficiency         | 99%                                                                          |                |                |
| General data            |                                                                              |                |                |
| Isolation mode          | None                                                                         |                |                |
| IP rating               | IP55                                                                         |                |                |
| Operation temperature   | -35°C~60°C (>45°C derating)                                                  |                |                |
| Relative humidity       | 0~100% (no-condensing)                                                       |                |                |
| Cooling type            | Intelligent air cooling                                                      |                |                |
| Dimensions (W×H×D)      | 860×2270×1725mm                                                              |                |                |
| Weight                  | 1500kg                                                                       |                |                |
| 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.

## Kehua Digital Energy

Add: No. 457, Malong Road, Torch High-Tech Industrial Zone, Xiamen Fujian China

Tel: +86-592-5160516 Fax: +86-592-5162166 www.kehua.com

