Liquid-cooling Modular Energy Storage Converter (DC-AC)

BCS500K-S-HLC

Secure Reliable

- IP66 & C5 high protection level for extreme environments
- Competitive noise performance, best for commissioning

Excellent Performance

- Patented liquid-cooling design
- 50℃ High ambient Temp under full load operation
- 4000m altitude adaptation without power derating

Grid Friendly

- Innovative black start logic enables start-up without external power
- Outstanding grid-forming capability: SCR≥1.0 full-range operation

Intelligent O&M

- NW20 standard nozzle, easy matching & anti-wear
- Flat modular structure, easy installation & maintenance



Technical Specification

Items	BCS500K-S-HLC
DC input	
Max. DC voltage	1500Vdc
Max. DC current	240A*2
Soft start	Yes
AC output	
Max. AC output power	500kVA
Rated output voltage	690Vac 3P3W+PE
Output voltage range	-15%~10% (settable)
Grid frequency range	50/60Hz (settable)
Max. continuous output current	418A
Power factor	>0.99 (at rated power)
Adjustable power factor	1 (leading)~1 (lagging)
THDi (on-grid)	<3% (at rated power)
PCS efficiency	
Max. efficiency	98.70%
General data	
Topology	Non-isolated
IP rating	IP66
Operation temperature	-35°C~60°C (>50°C derating)
Relative humidity	0~100% (no-condensing)
Cooling type	liquid-cooling
Dimensions (W×H×D)	740×210×1420mm
Weight	<170kg
Altitude	4000m (no derating)
Display	LED
Communication protocol	Modbus-TCP
Communication interface	Ethernet
Installation	Rack-mounted

- Specification indexes may be subject to changes without further notice.