

1000Vdc Energy Storage Converter

BCS100K~500K-A Series



Safe

- Isolation between batteries & grid
- On-line insulation detection



Smart

- On/off grid switching time <10ms (external connection of SCR)
- Four periods of time (peak, flat, valley and sharp) price setting, flexible calculation of user profitability
- Multiple charge modes including constant current charging, equalized charging and float charging



Simple

- Clear connection panel
- Inner transformer



Technical Specification

Items	BCS100K-A	BCS250K-A	BCS500K-A
DC Input			
MAX. DC voltage	1000Vdc		
DC voltage range	500~900Vdc		
Max. DC current	228A	566A	1125A
Soft start	Yes		
AC Output (On-grid)			
Rated AC output power	100kW	250kW	500kW
Max. AC output power	110kVA	275kVA	550kVA
Rated output voltage	400Vac 3P4W+PE		
Output voltage range	-15%~10% (settable)		
Grid frequency range	50/60Hz (settable)		
Max. output current	159A	397A	794A
Power factor	>0.99 (at rated power)		
Adjustable power factor	1 (leading)~1 (lagging)		
THDi	<5% (at rated power)		
AC Output (Off-grid)			
Rated AC output voltage	400Vac		
Output voltage accuracy	1%		
Max. output current	159A	397A	794A
THDu	<3% (linear load)		
Rated output frequency	50/60Hz		
Overload capability	110% overload		
PCS efficiency			
Max. efficiency	96.40%	97.20%	97.60%
General data			
Isolation transformer	Yes		
IP rating	IP20		
Operation temperature	-30°C~65°C (>45°C derating)		-30°C~65°C (>40°C derating)
Relative humidity	0~100% (no-condensing)		
Cooling type	Intelligent air cooling		
Dimensions (W×H×D)	800×1800×800mm	1000×1950×800mm	1400×1950×1000mm
Weight	730kg	1450kg	2050kg
Altitude	5000m (>3000m derating)		
Display	Touch screen		
Communication protocol	Modbus-RTU, Modbus-TCP		
Communication interface	RS485, Ethernet(Optional)		
Compliance	IEC/EN 62477-1, EN IEC 61000-6-2/4, NC RfG, NRS 097-2-1, VDE-AR-N4110*		

- * VDE-AR-N4110 only applies to BCS250K-A and BCS500K-A models.
- * Specification indexes may be subject to changes without further notice.