

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	0~95% (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.