

CBS-J50K104.4F Series

C&I All-in-one Hybrid ESS

Features



High Integration

- PV&ESS Highly Integrated
- Compact design, occupying an area of less than 2m²
- Fast Installation Modular Design



Security

- Cell / Pack / Cluster / System level protection
- IP55 Protection
- Intelligent battery module temperature management



Flexible Application

- Support <5ms UPS level switching (connected to STS100)
- Support connection to diesel generator (connection to STS100)
- Support 5 grid connected parallel machines



Smart Energy

- Smart EMS and multi-scenario operation
- Hundred millisecond level security detection and response
- Support revenue calculation and report export



Model	CBS-J50K104.4F
PCS	
PV Input	
Max. Recommended PV Power (Wp)	75000
Max. PV Input Voltage (V)	1000
MPPT Voltage Range (V)	350 ~ 800
Rated PV Input Voltage (V)	667
Start-up Voltage (V)	350
No. of MPP Trackers	3
No. of Input Strings per Tracker	2 / 2 / 2
Max. PV Input Current (A)	36 / 36 / 36
Max. Short-circuit Current (A)	40 / 40 / 40
AC Output	
Max. AC Output Apparent Power (VA)	55000
Max. AC Output Active Power (W)	50000
Max. AC Output Current (A)	80.0
Rated AC Output Current (A)	72.5
Rated AC Output Voltage (V)	3 / N / PE, 230 / 400
Grid Frequency (Hz)	50 / 60
Adjustable Power Factor (cos ϕ)	1 (0.9 leading ~ 0.9 lagging)
Output THDi (@Rated Output)	< 3%
AC Input	
Max. AC Input Apparent Power (VA)	55000
Max. AC Input Active Power (W)	50000
Max. AC Input Current (A)	80.0
Rated AC Input Voltage (V)	3 / N / PE, 230 / 400
Grid Frequency (Hz)	50 / 60
Battery	
Battery Type	LiFePO ₄
Nominal Capacity (Ah)	204 (102 * 2)
Battery Configuration	16S2P * 10
Nominal Energy (kWh)	104.4
Nominal Voltage (V)	512
Voltage Range (V)	448 ~ 584
Max. Continuous Charging / Discharging Current (A)	102 / 102
Nominal Power (kW)	52.2
Depth of Discharge	95%
System General Data	
Dimensions (with Inverter) (W * H * D) (mm)	1330 * 1950 * 1425
Dimensions (without Inverter) (W * H * D) (mm)	1000 * 1950 * 1425
Weight (with Inverter) (kg)	1400
Weight (without Inverter) (kg)	1325
Ambient Temperature Range (°C)	-20 ~ +50
Relative Humidity	0 ~ 95%
Operation Altitude (m)	≤ 2000
Topology	Transformerless
Cooling	Air-conditioner
Fire Protection	Aerosol
Communication	CAN, RS485, USB Update, WiFi, 4G, Ethernet
Ingress Protection	Cabinet: IP55; Inverter: IP65
Cycle Life	6000 @90% DOD / 25°C / 0.5C