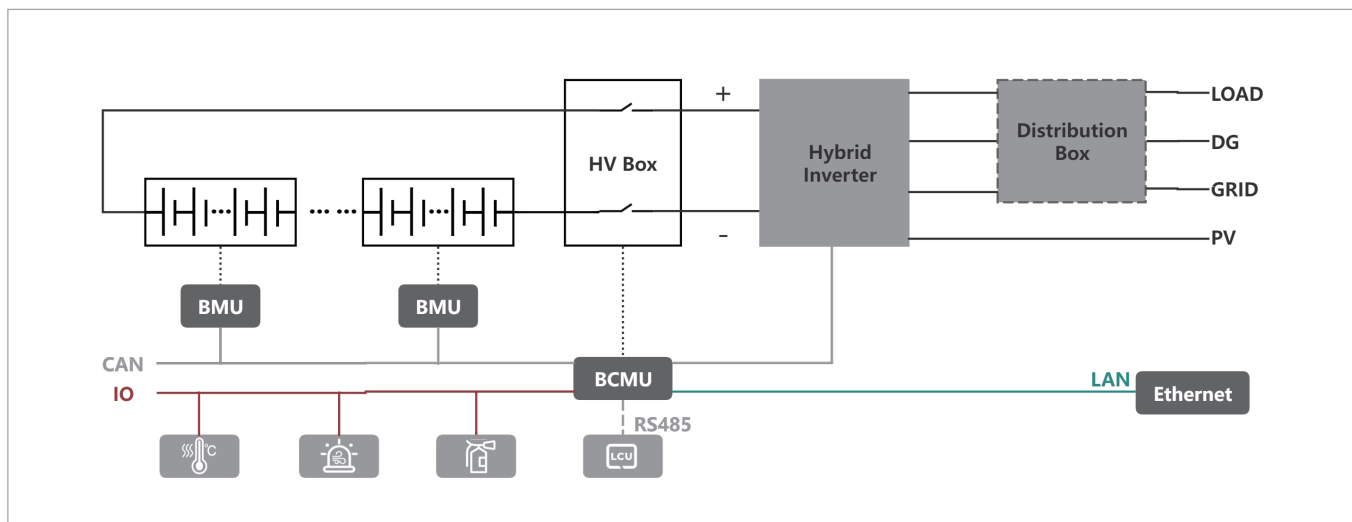




CF2-50 PV&ES Hybrid ESS

- Full-SiC Platform, Hybrid Inverter Efficiency 98.6%
- 200% PV Oversizing
- 10ms Seamless Switching
- Breathing Detection + Redundant Analysis
- -30 to +55°C Wide-Temperature Operation
- Hybrid Inverter IP66, Cabinet IP55+C5
- Standard AFCI Active Protection
- AI Intelligent Arc Detection
- Support 100Mbps Ethernet, 4G/Wi-Fi Communication

CIRCUIT DIAGRAM



PARAMETER

PARAMETERS

Product Model	BSC-CF2-0030K0060K-H	BSC-CF2-0040K0080K-H	BSC-CF2-0050K0100K-H
PV Parameters			
Max. Input Power @STC*	60kWp	80kWp	100kWp
Max. Input Voltage	1000V		
Rated Input Voltage	625V		
MPPT Voltage Range	150~800V		
Start Voltage	150V		
Max. Input Current	3*42A	4*42A	4*42A
Max. Short Circuit Current	3*55A	4*55A	4*55A
MPPT Number / Max. Input Strings Number	3/6	4/8	4/8
Battery Parameters			
Battery Cell	LFP / 280Ah		
Rated Energy	71kWh	86kWh	100kWh
Max. Charge/Discharge Current	140A		
Battery Voltage Range	200~292V	240~350V	280~408V
AC Parameters (Grid)			
Rated Output Power	30kW	40kW	50kW
Max. Output Power	30kVA	40kVA	50kVA
Rated Output Current	43.5A	58.0A	72.5A
Rated Input Current	87.0A	115.9A	144.9A
Rated Voltage	3L+N+PE, 230 / 400V		
Rated Frequency	50Hz		
Power Factor (COSφ)	0.8 leading~0.8 lagging		
THDi	< 3%		
AC Parameters (Load)			
Max. Output Power	30kVA	40kVA	50kVA
Rated Output Current	43.5A	58.0A	72.5A
Rated Voltage	3L+N+PE, 230 / 400V		
Rated Frequency	50Hz		
Charge/Discharge Switching Time	10ms		
Overload Capability	150%, 10s		
THDu	< 2%		
System Parameters			
Cooling Method	Air-cooling		
Noise	65dB		
IP Class	IP55		
Anti-corrosion Degree	C5		
Allowable Altitude	3000m (>2000m derating)		
Allowable Ambient Temperature	-30~55°C (>45°C derating)		
Allowable Relative Humidity	0~95% (no condensation)		
Dimension (W*H*D)	1100*2100*1100mm		
Weight	≈1000kg	≈1100kg	≈1200kg

*Note: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass (AM) =1.5.



BESCORE NEW ENERGY TECHNOLOGY (QINGDAO) CO.,LTD.

Address: Block A, International Innovation Park, Keyuan Weiyi Road, Laoshan District, Qingdao, Shandong, China

Tel: (086)-0532-88036767

Website: www.bescore-ess.com