

Blue-S-5000D SERIES

All-In-One Single Phase Storage Solution

- ▶ All in one design
High efficiency up to 97.6%
- ▶ IP65 protection
String monitoring optional
- ▶ Easy installation
Digital controller
- ▶ DC/AC Surge protection
Reactive power controller



Battery Specifications		BluE-Pack-5.1	BluE-Pack-10.2
Electrical			
Energy Capacity	5.12kWh		10.24kWh
Battery type	LFP (LiFePO4)		
Depth of Discharge (DoD)	90%		
Rated voltage	51.2V		
Operating Voltage Range	44.8~57.6V		
Internal Resistance	≤ 20 mΩ		
Number of cycles	≥5300cycles (70%DOD, 25℃)		
Operation			
Max. Charging Current	80A (0.8C)		100 A (0.5C)
Max. Discharging Current	50 A (0.5C)		100 A (0.5C)
Operating temperature range	0℃~+55℃ (Charging)/-20℃~+55℃ (DisCharging)		
Storage temperature range	-30℃~+60℃		
Humidity	0% ~ 90%		
BMS			
Modules Connection	max. 4 batteries in parallel		
Power Consumption	<2 W		
Monitoring Parameters	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement		
Communication	CAN and RS-485 compatible		
Ventilation type	Passive and Active Cooling		
Physical			
Weight (Kg)	48		95
Dimension (W×H×D)mm	540*500*240		540*980*240
IP Protection	IP65		
Warranty	5 Year Product Warranty, 10 Year Performance Warranty		
Certificate			
Safety(Cell)	IEC 62619、UL 1973、UN 38.3		

MODEL	BluE-S-3680D		BluE-S-5000D	
Inverter General				
Max. PV Input power	4800W		6500W	
Max. PV Input voltage	580V			
MPPT Range	120V ~550V			
Rated Input voltage	400V			
MPPT Range for full load	184~550V		230~550V	
Number of MPPT	2			
Max. PV input current	13A*2			
Isc PV	16A*2			
AC Output (On-Grid)				
Rated AC output power	230Vac			
Output voltage range	150V ~280V			
Output frequency range	50 / 60Hz(±5Hz), (adjustable)			
Rated Input Current	31A			
Max. Current from Utility Grid	32A			
Max. Apparent Power from Utility Grid	7360VA			
Max. Power Output to Utility Grid	3680W		4999W	
Max. Current Output to Utility Grid	16A		21.7A	
AC Output Connection	L+N+PE, Transformerless			
Power factor (cosΦ)	(0.8 leading ~ 0.8 lagging), (adjustable)			
THDi	<3%			
Power grid disconnection	Bipolar miniature circuit breaker (40A/pole)			
AC Output(Back-up)				
Rated Output Voltage	230 (Fluctuation range±2%)			
Rated Output Frequency	50/60Hz (Fluctuation range±0.2%)			
Rated output Current	13A		20A	
Rated Output Power	3000W		4600W	
Max. Output Apparent Power	3300VA		6000VA	
THDv	<2% (Linear load)			
Automatic Switch Time	<20ms			
OverLoad	6900VA 10sec			
Off-line AC disconnection	Bipolar miniature circuit breaker (25A/pole)			
Battery Input				
Rated Battery Voltage	51.2V			
Battery Voltage Range	40~60V			
Max. Discharging Current	80A		100A	
Max. Charging Current	50A		100A	
Battery Switch	Bipolar DC Switch (125A/Pole)			
Inverter General				
Dimension (W×H×D)mm	540*640*240			
Weight (Kg)	30			
Ambient Temperature Range [°C]	-20℃ ~+60℃ (Rated Power@45℃)			
Relative Humidity	0~95% (No condensation)			
Protection Degree	IP65			
Topology	High Frequency Isolation			
Cooling	Natural Convection			
Noise Emission [dB]	<25			
Display	LCD/APP			
Communication Interface	RS485/CAN2.0/WIFI			
Altitude	≤2000m			
Overvoltage Category	II(DC side), III(AC side)			
Max. Conversion Efficiency (From Battery)	94.0%			
Max. Conversion Efficiency (From PV)	97.6%			
Euro Efficiency	97.0%			
MPPT Efficiency	99.5%			
Protection Function	Short Circuit Protection, AC Leakage Fault Protection, Grounding Fault Protection, Anti-islanding Protection, Overload Protection、Surge Protection、DC Polarity Protection			
Certification & Standard				
Grid Regulation	AS/NZS 4777.2, VDE-AR-N4105, VDE0126-1-1			
Safety Regulation	IEC/EN 62109-1&2, IEC62040-1			
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4,EN61000-4-16, EN61000-4-18, EN61000-4-29			

Specifications subject to change without prior notice.

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