



บริษัท ออนุรักษ์พลังงาน 2020 จำกัด
ENERGY CONSERVATION 2020 CO.,LTD

Blue-S-5000 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°C)	

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°C~+55°C (Charging)/-20°C~+55°C (DisCharging)	
Storage temperature range	-30°C~+60°C	
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	
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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 (WxHxD)mm	540*640*240	
Weight (Kg)	30	
Ambient Temperature Range [°C]	-20 °C ~+60 °C (Rated Power@45 °C)	
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	



บริษัท อีเนอร์คอนเซอชัน 2020 จำกัด

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