

SKYBOX HYBRID

Hybrid / Off Grid Product View



Hyrid Front View



Hyrid Internal View



Hyrid Right-Side View



Hyrid Left-Side View









HYBRID / OFF-GRID SPECIFICATIONS









SBX5.0D-H-1 & SBX5.0D-O-1





SkyBox gives everyone freedom and
independence from the power grid.

Acting as a central 'brain,' the SkyBox manages incoming power from your solar, wind, or hydro generators.

Balancing these power sources and storing excess energy in the internal batteries, SkyBox creates a reliable off-grid electricity supply.

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	SBX5.0D-O-1	SBX8.0D-O-1
Transfer Switch	35A	50A
Max AC Input (A)	35A	50A
INVERTER		
Output (V)	Output Voltage: 230\	/AC. Frequency 50Hz
Rated AC Output Active Power (W)	5000W	W0008
Max AC Output Active Power (W)	5500W	8800W
Peak Power 5s (W)	10000W	16000W
Max AC Output Current (A)	21.7A	34.8A
Maximum efficiency	97.6%	97.6%
C H A R G E R		
Max Charging Current	120	190
Max Discharging Current	120	190
SOLAR		
Max PV Input Power	7500W	12000W
Max Open Circuit Voltage	500V	500V
Max PV Short Circuit Current	44A	44A
MPPT Input / (strings per tracker)	1(1) / 2(1	1) / 3(2)
Efficiency	99.9%	99.9%
MPPTs (Strings per Tracker)	2 (1)	2 (1)
BATTERIES	PYLONTECH	BSLBATT
Nominal Voltage	48	8V
Nominal Capacity (Wh)	4800 (Wh) multiplied by number of modules	5120 (Wh) multiplied by number of modules
Usable Capacity (Wh)	4560 (Wh) multiplied by number of modules	4966 (Wh) multiplied by number of modules
Max No. Modules	6	6
Max Capacity	pylontech 28.8kWh	pylontech 28.8kWh
	<i>bslbatt</i> 30.72Wh	<i>bslbatt</i> 30.72Wh
Working Temperature	0° to +60°, >4	45° Derating
Design Life	15+ y	ears
Cycle Life	>6000	Cycles
Authentication Level	IEC62619/0	CE/UN38.3
Warranty	10 Years to 7	0% retention
MONITORING		
WiFi	Ye	es
Ethernet	Ye	es
ENCLOSURE		
Colour	Wh	ite
Protection Category	IP	54
Weight	270)kg
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HYBRID / OFF-GRID SPECIFICATIONS









SBX12.0D-H-1





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AUSTRALIAN MADE		

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10
YEAR
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WARRANTY





	SBX12.0D-O-1	SBX16.0D-O-1	
Transfer Switch	100A	100A	
Max AC Input (A)	100A	100A	
INVERTER			
Output Frequency and Voltage	50/60Hz; L/N/PE 230	50/60Hz; L/N/PE 230	
Rated AC Output and UPS Power (W)	12000W	16000W	
Max AC Output Power (W)	12000W	16000W	
Peak Power 5s (W)	24000W	32000W	
Max AC Output Current (A) Maximum	52.2A	69.6A	
Maximum efficiency	97.	6%	
Backup Power (W)	10000W	14000W	
Backup Rated Current (A)	45A	63A	
Backup UPS	6ms Automatic	switchover time	
CHARGER			
Max Charging Current (A)	220A	290A	
Max Discharging Current (A)	220A	290A	
SOLAR			
Max PV Input Power	18000W	24000W	
Max Open Circuit Voltage	50	OV	
Max PV Short Circuit Current	44A		
MPPT Input / (strings per tracker)	1(1) / 2(1) / 3(2)		
MPPT Efficiency	99.9%		
MPPTs (Strings per Tracker)	150-425V		
BATTERIES			
Nominal Voltage	40-	60V	
Nominal Capacity (Wh)	5120 (Wh) multiplied by number of modules		
Usable Capacity (Wh)	4966 (Wh) multiplied by number of modules		
Max No. Modules	14		
Max Capacity		NTECH KWh	
		BATT	
		BWh	
Working Temperature		45° Derating	
Design Life		rears	
Cycle Life		Cycles	
Authentication Level	IEC/EN 61000-6-1/2/3/4, IEC		
Warranty	10 Years to 7	0% retention	
MONITORING			
WiFi		es	
Ethernet _	t Optional		
ENCLOSURE			
Colour		nite	
Protection Category		65	
Weight		Okg	
Dimensions (h x w x d)	1600mm x 180	0mm x 601mm	





SBX12.0D-H-3 & SBX12.0D-O-3



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	SBX12.0D-O-3
Transfer Switch	40A per phase
Max AC Input (A)	20A per phase
IN V E R T E R	
Output (V)	Output Voltage: 230VAC. Frequency 50Hz
Rated AC Output and UPS Power (W)	12000W
Max AC Output Power (W)	12000W
Peak Power 10s (W)	24000W
Max AC Output Current (A)	52.17A
Maximum efficiency	97.6%
CHARGER	
Max Charging Current (A)	240A
Max Discharging Current (A)	240A
S O L A R	
Max PV Input Power	19300W
Max Open Circuit Voltage	800V
Max PV Short Circuit Current	44A
MPPT Input / (strings per tracker)	2 (2)
Efficiency	99.9%
MPPTs	2/2+1
BATTERIES	
Nominal Voltage	48V
Nominal Capacity (Wh) 5120 (Wh) multiplied by number of mod	
Usable Capacity (Wh)	4966 (Wh) multiplied by number of modules
Max No. Modules	14
Max Capacity	pylontech 67.2kWh
	BSLBATT
	71.68Wh
Working Temperature	0° to +60°, >45° Derating
Design Life	15+ years
Cycle Life	>6000 Cycles
Authentication Level	IEC62619/CE/UN38.3
Warranty	10 Years to 70% retention
MONITORING	
WiFi	Yes
Ethernet	Yes
ENCLOSURE	
Colour	White
Protection Category	IP54
Weight	350kg
Dimensions (h x w x d)	1600mm x 1800mm x 601mm

¹ Size is an approximation only and may vary depending on parts available.

Size of cabinets is an approximation only and may vary depending on stock available and size of system Off-Grid Certified meaning the SkyBox has capabilities for renewable energy and generator inputs. SkyBox creates a power supply where no grid input or referencing is required.

Subject to change.

HYBRID / OFF-GRID SPECIFICATIONS



FEATURES

Protection Built to IP54 protection standards

Standard IEC62208, IEC/EN/AS60529

Material Body: 1.5mm galvanised steel sheet

Gland Plate: 1.5mm galvanised steel sheet

Door: 1.5mm galvanised steel sheet

Device Mounting Plate: 1.5mm galvanised steel sheet

Seal: EPDM Rubber

Body The robust monoblock body is fabricated using 1.5mm galvanised steel sheet. Flat face sealing surfaces are provided to increase seal life. Pre-fitted blind nutserts are incorporated to accommodate mounts and accessory fasteners to eliminate drilling and retain IP rating. Integral device plate mounts and M6 earth stud is provided.

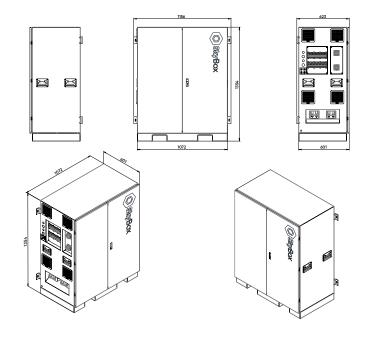
Double Doors

The robust surface mounted door is fabricated using
1.5mm galvanised steel sheet and incorporates
concealed removable hinges with captive pins. The
door is designed for a 110° opening. Each door contains
integral cable management rail studs, M6 earth stud.

Seal Pinchweld EPDM replaceable seal

Lock 3 point locking system with key-lock swing handle.

DIMENSIONS (5kW and 8kW MODEL)





BSLBATT 48V LITHIUM POWER LITHIUM BATTERY



2.5kWh/5.0kWh/6.6kWh 8.1kWh/10kWh

FEATURES

- 5.12kWh expandable up to 81.92kWh
- AC Coupled for both new and retrofitted installations
- 4.8kW charge and discharge rate
- LiFePo4 cell, safe and environmentally friendly
- Suitable for both indoor and outdoor installation (IP65 rating)
- Premium 10 Year Warranty
- Modular design gives highest flexibility
- 16 Cell lithium batteries as denoted with the voltage 51.2v
- Multiple communication interfaces: RS485, RS232,CAN
- Long life cycle, more than 6000 times
- Safety Cert. RCM, IEC, FCC, TUV, CE, UN38.3, and so on
- · Module level auto-balancing
- 0.5C/1C continualcharge and discharge
- Proven BMS with widest compatiblities with inverters
- Simple buckle fixing minimize the installation time and cost

APPLICATIONS

- Back-up power
- Self-consumption optimisation
- Off-grid power supply





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Domestic-residential

Schools or Institutions
Places of public interest
Gyms and sports facilities
Shops and small businesses
Car parks in shopping centres and supermarkets

























Lithium battery BSLBATT









Nominal Parameters

Battery Technology		Lithium iron Phosphate(LiFeP04)					
Model	B-LFP48-50E	B-LFP48-100E	B-LFP48-130E	B-LFP48-160E	B-LFP48-200E	B-LFP48-300E	
Rated Voltage(V)	51.2	51.2	51.2	51.2	51.2	51.2	
Rated Capacity(Ah)	50	100	130	160	200	300	
Energy(kWh)	2.56	5.12	6.66	8.19	10.24	15.36	
Dimension one(mm)	485*390*132	485*442*177	560*442*177	640*405*225	485*503*267	485*700*267	
Dimension two(mm)	W485*H510*D180	W485*H510*D180 W630*H780*D160					
Weight(Kg)	29	48	56	85	96	120	
Design life(25℃)		10 years					
Cycle life(80% DOD @25℃)		6000 cycles					

Electrical Characteristics

Voltage Range(V)DC	44.8 to 58.4V DC						
Peak Current	100A	150A	150A	180A	150A		150A
Continuous Current	50A	100A	100A	150A	100A		100A
Max continuous charge current(A)	50A	100A	100A	100A	100A		100A
Max continuous discharge current(A)	50A	100A	120A	150A	180A		280A
Battery Pack Round-Trip Efficiency	> 95% (under specific condition)						
Communication Interface	RS232/RS485/CAN						
DC Disconnect	Circuit Breaker, Contactor, Fuse						

Operating Conditions

Installation Location		Indoor / (stand wall-mounted)			
	Charge	-10 to 45	5°C		
	Discharge	15 to 30℃			
Operating Temperature		-10 to 45℃			
operating reinperature	Storage	25℃	6 months		
	Storage	45°C	3 months		
		60℃	1 month		
Humidity		5% to 95%			
Altitude		Max. 2,000m			
Cooling Strategy	Natural Convection				

Certification

Safety		ULI1642/CE/RCM/FCC/TUV (IEC 62619) /UL1973
EMC		IEC61000-6-1 , IEC61000-6-3
Hazardous Materi	als Classification	Class 9
Transportation		UN38.3
IP LEVEL		IP23