

HYBRID / OFF-GRID SPECIFICATIONS



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.



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



SBX8.0D-H-1 & SBX8.0D-O-1

| | | |
|------------------------------------|---|---|
| Transfer Switch | 35A | 50A |
| Max AC Input (A) | 35A | 50A |
| INVERTER | | |
| Output (V) | Output Voltage: 230VAC. Frequency 50Hz | |
| Rated AC Output Active Power (W) | 5000W | 8000W |
| 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% |
| CHARGER | | |
| 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) / 3(2) | |
| Efficiency | 99.9% | 99.9% |
| MPPTs (Strings per Tracker) | 2 (1) | 2 (1) |
| BATTERIES | | |
| | PYLONTECH | BSLBATT |
| Nominal Voltage | 48V | |
| 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 |
| | BSLBATT 30.72Wh | BSLBATT 30.72Wh |
| 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 | 270kg | |
| Dimensions (h x w x d) | 1354mm x 1072mm x 601mm | 1354mm x 1072mm x 601mm |

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**SBX12.0D-H-1
&
SBX12.0D-O-1**

**SBX16.0D-H-1
&
SBX16.0D-O-1**

| | | |
|------------------------------------|--|---------------------|
| Transfer Switch | 100A | 100A |
| Max AC Input (A) | 100A | 100A |
| I N V E R T E R | | |
| 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 | |
| C H A R G E R | | |
| Max Charging Current (A) | 220A | 290A |
| Max Discharging Current (A) | 220A | 290A |
| S O L A R | | |
| Max PV Input Power | 18000W | 24000W |
| Max Open Circuit Voltage | 500V | |
| 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 | |
| B A T T E R I E S | | |
| 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 | PYLONTECH 67.2kWh BSLBATT 71.68Wh | |
| Working Temperature | 0° to +60°, >45° Derating | |
| Design Life | 15+ years | |
| Cycle Life | >6000 Cycles | |
| Authentication Level | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2 | |
| Warranty | 10 Years to 70% retention | |
| M O N I T O R I N G | | |
| WiFi | Yes | |
| Ethernet | Optional | |
| E N C L O S U R E | | |
| Colour | White | |
| Protection Category | IP65 | |
| Weight | 350kg | |
| Dimensions (h x w x d) | 1600mm x 1800mm x 601mm | |



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

| | |
|------------------------------------|---|
| Transfer Switch | 40A per phase |
| Max AC Input (A) | 20A per phase |
| I N 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% |
| C H A R G E R | |
| 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 |
| B A T T E R I E S | |
| Nominal Voltage | 48V |
| 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 | 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 |
| M O N I T O R I N G | |
| WiFi | Yes |
| Ethernet | Yes |
| E N C L O S U R E | |
| 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.
² 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.
³ Subject to change.



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 Pinch weld EPDM replaceable seal

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

DIMENSIONS (5kW and 8kW MODEL)

