

**HYBRID / OFF-GRID SPECIFICATIONS**



5kW & 8kW (1 phase)  
Inverter Hybrid & Off-Grid Model



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.



	SBX5S-M	SBX8S-M
<b>Max Continuous AC Passthrough (A)</b>	35A	50A
<b>I N V E R T E R</b>		
<b>Output Frequency and Voltage</b>	Output Voltage: 230VAC. Frequency 50Hz	
<b>Rated AC Output Active Power (W)</b>	5000W	8000W
<b>Max AC Output Active Power (W)</b>	5000W	8000W
<b>Peak Power 5s (W)</b>	10000W	16000W
<b>Max AC Output Current (A)</b>	21.7A	34.8A
<b>Maximum efficiency</b>	97.6%	97.6%
<b>C H A R G E R</b>		
<b>Max Charging Current</b>	120	190
<b>Max Discharging Current</b>	120	190
<b>S O L A R</b>		
<b>Max PV Input Power</b>	7500W	12000W
<b>Max Open Circuit Voltage</b>	500V	500V
<b>MPPT Voltage Range</b>	150-425V	150-425V
<b>Max PV Short Circuit Current</b>	19.5A	39A + 39A
<b>MPPTs (strings per tracker)</b>	1 (1)	2 (2)
<b>Efficiency</b>	99.9%	99.9%
<b>B A T T E R I E S</b>		
<b>Nominal Voltage</b>	40-60V	
<b>Nominal Capacity (Wh)</b>	5120 (Wh) multiplied by number of modules	
<b>Usable Capacity (Wh)</b>	5120 (Wh) multiplied by number of modules	
<b>Max No. Modules</b>	3	
<b>Max Capacity</b>	BSLBATT 15.36kWh	
<b>Working Temperature</b>	0° to +60°, >45° Derating	
<b>Design Life</b>	15+ years	
<b>Cycle Life</b>	>6000 Cycles	
<b>Authentication Level</b>	IEC62619/CE/UN38.3	
<b>Warranty</b>	10 Years to 70% retention	
<b>E N C L O S U R E</b>		
<b>Colour</b>	White	
<b>Protection Category</b>	Built to IP54 protection standards	
<b>Weight</b>	150kg	
<b>Dimensions (h x w x d)</b>	1634mm x 600mm x 600mm	1634mm x 600mm x 600mm

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SBX5S-V3



SBX8S-V3

Max Continuous AC Passthrough (A)	35A	50A
<b>INVERTER</b>		
Output Frequency and Voltage	Output Voltage: 230VAC. Frequency 50Hz	
Rated AC Output Active Power (W)	5000W	8000W
Max AC Output Active Power (W)	5000W	8000W
Peak Power 5s (W)	10000W	16000W
Max AC Output Current (A)	21.7A	34.8A
Maximum efficiency	97.6%	97.6%
<b>CHARGER</b>		
Max Charging Current	120	190
Max Discharging Current	120	190
<b>SOLAR</b>		
Max PV Input Power	7500W	12000W
Max Open Circuit Voltage	500V	500V
MPPT Voltage Range	150-425V	150-425V
Max PV Short Circuit Current	19.5A	39A + 39A
MPPTs (strings per tracker)	1 (1)	2 (2)
Efficiency	99.9%	99.9%
<b>BATTERIES</b>		
Nominal Voltage	40-60V	
Nominal Capacity (Wh)	5120 (Wh) multiplied by number of modules	
Usable Capacity (Wh)	5120 (Wh) multiplied by number of modules	
Max No. Modules	6	
Max Capacity	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	
<b>ENCLOSURE</b>		
Colour	White	
Protection Category	Built to IP54 protection standards	
Weight	270kg	
Dimensions (h x w x d)	1354mm x 1122mm x 601mm	1354mm x 1122mm x 601mm

HYBRID / OFF-GRID SPECIFICATIONS



10kW (1 & 3 phase)  
Inverter Hybrid & Off-Grid Model



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SBX10S-V3



SBX10T-V3

Max Continuous AC Passthrough (A)	60A	45A
<b>INVERTER</b>		
Output Frequency and Voltage	Output Voltage: 230VAC. Frequency 50Hz	
Rated AC Output and UPS Power (W)	10000W	10000W
Max AC Output Power (W)	10000W	10000W
Peak Power (W)	15000W	15000W
Max AC Output Current (A)	43.5A	14.5A per phase
Maximum efficiency	97.6%	97.6%
<b>CHARGER</b>		
Max Charging Current (A)	220A	210A
Max Discharging Current (A)	220A	210A
<b>SOLAR</b>		
Max PV Input Power	15000W	15000W
MPPT Voltage Range	150-425V	200-650V
Max PV Short Circuit Current	44A + 44A + 44A	39A + 19.5A
MPPTs (strings per tracker)	3 (2)	2 (2/1)
Efficiency	99.9%	99.9%
<b>BATTERIES</b>		
Nominal Voltage	40-60V	
Nominal Capacity (Wh)	5210 (Wh) multiplied by number of modules	
Usable Capacity (Wh)	5120 (Wh) multiplied by number of modules	
Max No. Modules	6	6
Max Capacity	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	
<b>ENCLOSURE</b>		
Colour	White	
Protection Category	Built to IP54 protection standards	
Standard	IEC62208, IEC/EN/AS60529	
Weight	270kg	
Dimensions (h x w x d)	1354mm x 1122mm x 601mm	1354mm x 1122mm x 601mm

HYBRID / OFF-GRID SPECIFICATIONS



10kW & 12kW (1 phase)  
Inverter Hybrid & Off-Grid Model



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SBX10S-P

SBX12S-P

	SBX10S-P	SBX12S-P
Max Continuous AC Passthrough (A)	60A	60A
<b>I N V E R T E R</b>		
Output Frequency and Voltage	Output Voltage: 230VAC. Frequency 50Hz	
Rated AC Output and UPS Power (W)	9999W	12000W
Max AC Output Power (W)	9999W	12000W
Peak Power (W)	20000W	24000W
Max AC Output Current (A)	43.5A	52.2A
Maximum efficiency	97.6%	97.6%
Backup Power (W)	9999W	12000W
Backup Rated Current (A)	43.5A	52.2A
Backup UPS	6ms automatic switchover time	
<b>C H A R G E R</b>		
Max Charging Current (A)	220A	220A
Max Discharging Current (A)	220A	220A
<b>S O L A R</b>		
Max PV Input Power	15000W	18000W
Max Open Circuit Voltage	500V	500V
MPPT Voltage Range	150-425V	
Max PV Short Circuit Current	44A + 44A + 44A	44A + 44A + 44A
MPPTs (strings per tracker)	3 (2)	3 (2)
Efficiency	99.9%	99.9%
<b>B A T T E R I E S</b>		
Nominal Voltage	40-60V	
Nominal Capacity (Wh)	5210 (Wh) multiplied by number of modules	
Usable Capacity (Wh)	5120 (Wh) multiplied by number of modules	
Max No. Modules	14	14
Max Capacity	BSLBATT 71.68Wh	
Working Temperature	0° to +60°, >45° Derating	
Design Life	15+ years	
Cycle Life	>6000 Cycles	
Authentication Level	IEC62619/CE/UN38.3	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2
Warranty	10 Years to 70% retention	
<b>E N C L O S U R E</b>		
Colour	White	
Protection Category	Built to IP54 protection standards	
Standard	IEC62208, IEC/EN/AS60529	
Weight	340kg	350kg
Dimensions (h x w x d)	1802mm x 1757mm x 597mm	

HYBRID / OFF-GRID SPECIFICATIONS



12kW (3 phase) & 16kW (1 phase)  
Inverter Hybrid & Off-Grid Model



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SBX12T-P

SBX16S-P

	SBX12T-P	SBX16S-P
Max Continuous AC Passthrough (A)	45A	100A
<b>I N V E R T E R</b>		
Output Frequency and Voltage	Output Voltage: 230VAC. Frequency 50Hz	
Rated AC Output and UPS Power (W)	12000W	16000W
Max AC Output Power (W)	12000W	16000W
Peak Power (W)	24000W	32000W
Max AC Output Current (A)	17.4A per phase	69.6A
Maximum efficiency	97.6%	97.6%
Backup Power (W)	12000W	16000W
Backup Rated Current (A)	17.4A per phase	69.6A
Backup UPS	6ms automatic switchover time	
<b>C H A R G E R</b>		
Max Charging Current (A)	240A	290A
Max Discharging Current (A)	240A	290A
<b>S O L A R</b>		
Max PV Input Power	18000W	24000W
Max Open Circuit Voltage	500V(160-800)	500V
MPPT Voltage Range	200-650V	150-425V
Max PV Short Circuit Current	39A + 19.5A	44A + 44A + 44A
MPPTs (strings per tracker)	2 (2/1)	3 (2)
Efficiency	99.9%	99.9%
<b>B A T T E R I E S</b>		
Nominal Voltage	40-60V	
Nominal Capacity (Wh)	5210 (Wh) multiplied by number of modules	
Usable Capacity (Wh)	5120 (Wh) multiplied by number of modules	
Max No. Modules	14	14
Max Capacity	BSLBATT 71.68Wh	
Working Temperature	0° to +60°, >45° Derating	
Design Life	15+ years	
Cycle Life	>6000 Cycles	
Authentication Level	IEC62619/CE/UN38.3	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2
Warranty	10 Years to 70% retention	
<b>E N C L O S U R E</b>		
Colour	White	
Protection Category	Built to IP54 protection standards	
Standard	IEC62208, IEC/EN/AS60529	
Weight	350kg	350kg
Dimensions (h x w x d)	1802mm x 1757mm x 597mm	