



SUSTAIN BOX™

PRODUCT RANGE

TURN-KEY HYBRID ENERGY STORAGE CABINET



SUSTAIN BOX™ 7.6

HIGH PERFORMANCE

- High energy density LFP batteries >6000 cycles
- Powerful hybrid inverter for grid-tied and off-grid applications
- Up to 10-year warranty

ADVANCED CONTROL

- Wi-Fi communication and control features with remote monitoring of system via user friendly App
- BMU monitoring for safe operation
- Inverter display accessible with locked cabinet

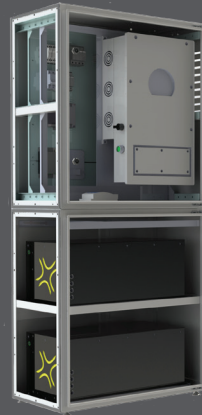


SUSTAIN BOX™ 7.6



COMPACT & MODULAR

- Complete turn-key system seamlessly integrated inside a sleek and robust cabinet
- Installation time and costs significantly reduced with ease of re-location, compared to conventional wall mount installations
- Connection of multiple units in parallel for modular expansion of system capacity
- 12kW option of the SUSTAIN BOX™ can be disassembled in two halves for ease of transport in remote or challenging locations



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PLUG & PLAY

- All-in-one battery back-up solution for loadshedding
- Allows for integration of grid and generator
- "PV-ready" via MC4 connectors at the back of each unit
- Integrated power plug for emergencies



APPLICATIONS

- Residential back-up
- SolarPV self-consumption optimisation and
- Small scale off-grid (e.g. health clinics, etc.)

Technical Data

	SUSTAIN BOX™ 7.6	SUSTAIN BOX™ 12
	SUSTAIN BOX™ System Specification	
Inverter Type	Hybrid	
System Configuration	Single Phase	Three Phase
Battery Chemistry	Lithium Iron Phosphate (LiFePO4)	
Integrated Battery Capacity Range	5.32 - 15.96 kWh	14.3 - 28.6 kWh
Online Monitoring	Integrated	
Dimensions (H x L x W)	800 x 650 x 1200 mm	1770 x 889 x 460 mm
Net Weight (Fully Assembled)	Up to 300 kg	Up to 431 kg
Warranty	Inverter 10 year factory warranty Batteries 10 year performance warranty	Inverter 5 year factory warranty Batteries 10 year performance warranty
	1-Year workmanship warranty on the complete system	
	Battery Technical Specification	
Battery Chemistry	Lithium Iron Phosphate (LiFePO4)	
Integrated Battery Capacity Range	5.2 kWh, 10.64 kWh, 15.96 kWh	14.3 kWh, 28.6 kWh
Nominal Voltage	51.2V	
Operational Voltage (per module)	45.6 - 56.16 Vdc	44.8 - 55.6 Vdc
Cycle Life (+25°C)	>6000	
Safety Standard Compliance	UN38.3/IEC 62619/IEC 62040-1/CE/TUV	IEC 62619/UN 38.3/UL1642/TUV/CE/RCM/UL1642
	Inverter Technical Specification	
Rated AC Output and UPS Power	7.6 kW	12 kW
Max. AC Power	8.36 kW	13.2 kW
Peak Power (Off-Grid)	2 times of rated power, 10s	
AC Output Rated Current	31.7A / 33A	17.4A
Max AC Output Current	34.9A / 36.3A	19.1A
Max Continuous AC Passthrough	50A	60A
Output Frequency and Voltage	50/60Hz; 120/240Vac (split phase) 208Vac(2/3), 230Vac (single phase)	50-60Hz; 230/400Vac (Three Phase)
Grid Type	Split phase, 2/3 phase, Single phase	Three Phase
Max. DC Input Power	9.88 kW	15 kW
PV Input Voltage	370V (100V-500V)	450V (140V-1000V)
MPPT Range	125V-425V	140V-800V
Start-up Voltage	150V	160V
PV Input Current	22A+22A	25A+12.5A
No. of MPPT Trackers	2	2
No. of Strings per MPPT Tracker	2+2	2+1
Max. Efficiency	97.6%	97.6%
MPPT Efficiency	96.5%	97%
Grid Regulation	UL1741, IEEE1547, RULE21, VDE0126, AS4777, NRS2017,	
Safety Regulation	IEC62109-1, IEC62109-2	
EMC	EN61000-6-1, EN61000-6-3, FCC 15 Class B	



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