

SimplBox

MicroStorage Solution by



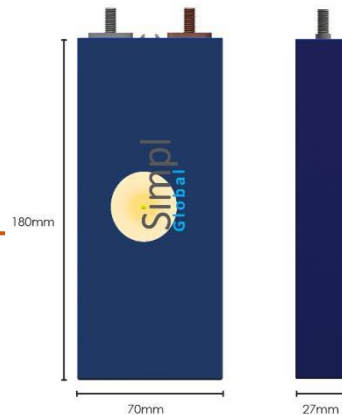
SimplBox is an energy storage system designed to be installed underneath individual solar panels. SimplBox optimizes the financial value of the energy generated by a solar panel by storing the right portion of this energy for use later when electricity is more expensive.

Applications

- Demand shaving
- Time-of-Use (TOU) arbitrage
- Solar self-supply
- Micro-grid
- Backup power
- Utility ancillary services

Key Differentiators

- Easy installation directly under the solar panel
- Does not take up any additional space
- Same unit works with all solar panels with a wide variety of voltage ranges from 60-cell to 96-cell
- Compatible with Sunpower X-, E- and P-Series
- 25% more efficient than comparable units in the marketplace using Simpl's patent-pending technology
- Patent-pending, fault-tolerant, and self-healing mesh networking as the basis of the control system
- Lithium Iron Phosphate (LFP) battery cells for ultimate in safety and durability
- SimplWeb, remote, web-based controls allowing for continuously adjusting system algorithms and controls to optimize savings
- Potted construction with no mechanical relays or electrolytic capacitors provides state-of-the-art reliability.



Battery Cell

25 Ah, LFP cells are procured by Simpl Global from two established, NASDAQ-listed battery manufactures.

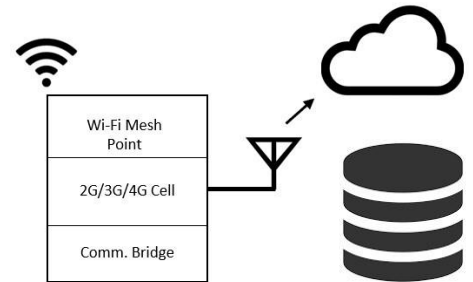


Battery Module

0.5, 1.0 and 1.5 kWh modules are assembled by Simpl Global using the above Cells, our proprietary battery management system (BMS), and our patent-pending Floating Control

Cool batteries using non-metallic, insulated material which is certified to UL 94 standards with highest resistance to flammability.

- 10-year standard battery warranty with available 20-year warranty for batteries assignable by the battery manufacturer
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System Configuration

Once a SimplBox is attached to a solar panel, it uses its mesh-networked core to wake up and automatically connect to the Simpl's web-hosted database, SimplWeb. Simpl's partners have access to SimplWeb via a carefully-designed API and can extract relevant data or develop a custom application for their customers.

SimplBox is equipped with fault-tolerant networking and SimplWeb which is a real-time database hosted by Simpl Global.

SimplBox	SimplBox Models		
	SimplBox-05	SimplBox-10	SimplBox-15
Number of Lithium Iron Phosphate Cells	6	12	18
Rated Capacity (kWh)	0.5	1.0	1.5
Max Rated Power (W)	350		
Max Battery Rated Power (W)	300		
"C" Rating at nominal Battery Voltage	0.60	0.30	0.20
Dimensions (L x W x T)	9.3" x 8" x 2.6"	17.6" x 8" x 2.6"	25.9" x 8" x 2.6"
Weight (lbs.)	10	19	27
Operating Temperature Range and Humidity	-20 °C to 50 °C at up to 95% RH		
Storage Temperature Range	-30 °C to 60 °C		
Noise Level	No Noise; No moving parts		
Communication Protocol	Wi-fi Mesh Network based on Simpl Global's patent-pending technology		
Certificate of Compliance	Battery Cells: UL 1642 Battery Module: UL 1973 and UL 9540 (pending) Battery Casing: UL 94 5VA with RTI of 93 °C		
Grid Connection	None. Connects to a microinverter or DC optimizer		

