SLENERGY

SmartBox

SmartBox is an IoT intelligent hardware that real-time collects operational data from connected slave devices such as smart meters, inverters, charging stations, heat pumps, etc. The collected generation and consumption data are integrated to achieve intelligent centralized management of energy.

SmartBox

1 *Plug and Play*

- Instantly recognizes and integrates connected devices.
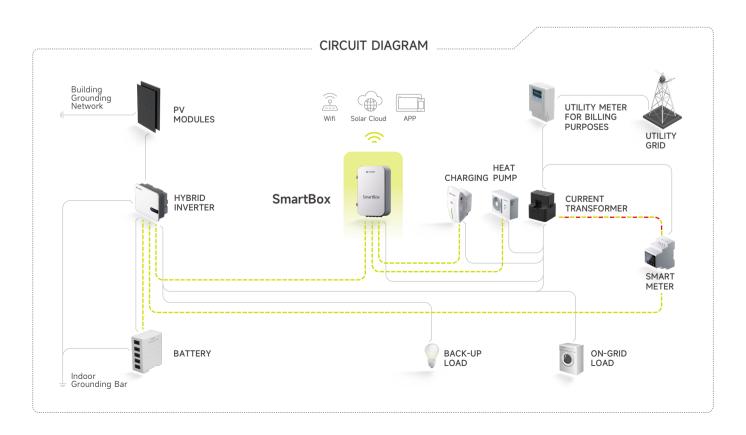- No need for complex device configurations.

2 *Versatile Connectivity*

- Supports Ethernet, WiFi, Bluetooth connectivity options.
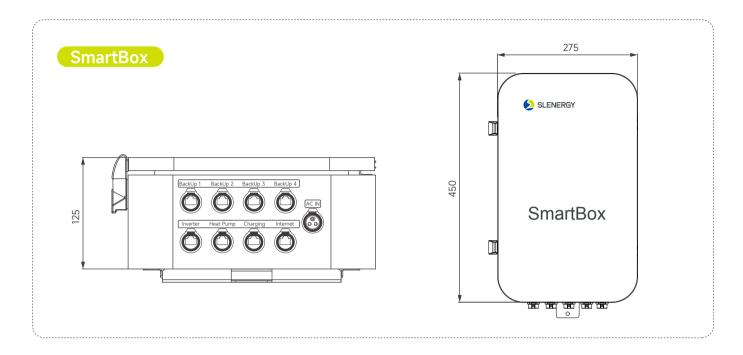- Compatible with Modbus and other bus communication protocols.

3 *Flexible Energy Management Strategies*

- Offers a variety of selectable energy management strategies.

4 *Mobile App Integration*

- User-friendly mobile application for convenient control and monitoring.

5 *Optimal Utilization of Clean Energy*

- Maximizes the use of renewable energy sources.
- Helps users save on electricity costs.

CIRCUIT DIAGRAM

Building Grounding Network

PV MODULES

Wifi   Solar Cloud   APP

UTILITY METER FOR BILLING PURPOSES

UTILITY GRID

HYBRID INVERTER

SmartBox

CHARGING   HEAT PUMP

CURRENT TRANSFORMER

SMART METER

BATTERY

Indoor Grounding Bar

BACK-UP LOAD

ON-GRID LOAD

SmartBox

SMARTBOX

AC Side

Max input/output voltage	[V$_{AC}$]	230
Frequency	[Hz]	50/60
Max input/output current	[A]	1

Communication

Interface		LAN/RS485
Number of interfaces		8

Working Enviroment

Operation Temperature	[°C]	-10~+50
Relative Humidity		98% Non-condensation
Altitudes	[m]	≤2000m
IP Degree		IP54
Installation method		Indoor, Hanging

Standards & Certifications

Standards		IEC61439-1
		IEC61439-2
Certifications		CE
Dimensions W×H×D	[mm]	450×275×125
Weight	[kg]	9