

# ViStarter

## Edge Energy Management System



Vilion-BESS  
energy flowing with demand

ViStarter Edge Energy Management System (EMS) is a lightweight local control and comprehensive energy management platform independently developed by Vilion team, which has the functions of real-time data collection and analysis, system operation scheduling and management, fault self-diagnosis and operation and maintenance.



### Supports Local Web and Cloud Access

- VPN and/or SCADA control.
- Remote operation and maintenance.

### Operation Data Management

- Running status is visible and controllable in real time.
- Whole life cycle running data can be traced.
- Anytime & anywhere energy management.

### Benefits from Time-of-Use Tariff

- AI algorithm flexibly adapts to the grid and load changes and make energy saving plan based on energy consumption analysis.

### Microgrid Control

- Battery /PCS coordination management.
- Multi-energy complementary supports solar, wind turbine, diesel generator and other energy control.
- Customized energy demands for multi-operating modes and control strategies.

## Applications and Customer Values



### Business Buildings / Industrial Park

ViStarter can integrate solar and other power sources to ensure power supply reliability and system economy through peak-load shifting and store extra solar generation, and improve energy consumption experience.



### New Energy Charging Station

ViStarter sends operating data to the server in real time for remote monitoring and data analysis to achieve flexible capacity expansion.



### Remote Areas or Houses

24-hour AI computing and cloud maintenance to provide users with automatic uninterruptible power.



### Energy Investment Operator

Intelligent energy management + digital operation and maintenance technology to achieve intelligent and safe operation of energy storage assets.



### New Energy Station

ViStarter intelligently smooth new energy power generation output and optimizes the new energy utilization.



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## Edge Energy Management System



### Safe and Reliable

- Real-time data and complete historical data storage are convenient for analogy and analysis;
- Perfect fault protection function.

### Convenient and Efficient

- Remote visibility, controllability and adjustment;
- Convenient & cloud operation and maintenance;
- Millisecond-level rapid response.

### Flexible and Intelligent

- Real-time cloud AI computing;
- Fast fault location and analysis;
- Precise and efficient control strategies.

## Parameters

## EMSIV4S

### General Parameters

Power supply method	DC12V,9A
Display size	10.1 inches
DPI (px)	1280*800
Ingress protection	IP20
Operating ambient temperature	-20°C~50°C
Operating humidity	10%~95%
Dimension (L*W*H)	320mm*60mm*500mm
Weight	About 9kg
Warranty	5 years

### Function Parameters

Mode	On-grid, peak-load shifting, PV output smoothing, backup power
Data display	Yes
Human machine interface (HMI)	Yes
Local parameter configuration	Yes
Data return	Yes
Data storage	Yes

### External Data Interface Parameters

Ethernet	2 x Intel® I210AT GbE LAN ports
USB	4 x USB 2.0 (500mA per each)
SIM	1 x SIM card holder
COM1	2 x RS485
COM2	2 x RS485
COM3	2 x RS485
Antenna	1x4G



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