
energy focus
EFOI-S2KW-B Smart String ESS
More Energy
Simple O&M
Safe & Reliable

Comprehensive upgrade of industrial and commercial "1+3" solar solutions to accelerate the green and low-carbon transformation of thousands of industries

Smart component controller

Smart solar controller

Intelligent string energy storage system

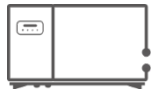
Smart Solar Cloud

One-stop experience | **Smart security** | **High reliability** | **Smart discharge** | **Simplified O&M**

One-stop experience: Solar cloud integrated solution, better collaboration, simple after-sales

Industry: Multi-vendor product portfolio, multi-mode overlay is not supported

Optimizer, **Vendor A**



Inverter, **Vender B**

Energy Storage, **Vender D**

Management System, **Vendor C**

Management system, **Vendor E**

Energy Focus: E2E excellent light storage cloud solution, support multi-mode

Peak-to-valley arbitrage | self-consumption | Reduction of demand fees | Power distribution capacity increase

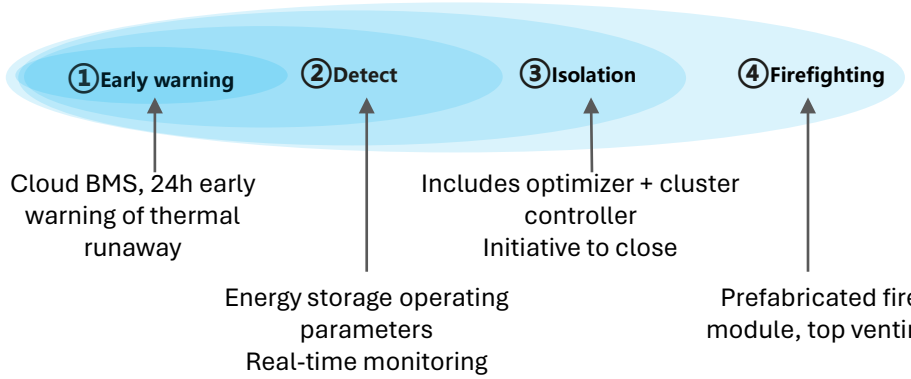
Multiple modes are superimposed, and the benefits are higher

Smart safety: Quadruple active safety protection design ensures the safety of energy storage power stations

Traditional: Lack of early warning and safety management leads to high safety risks

Only the fire extinguishing system extinguishes the fire, and there is no pre-accident risk warning in South Korea's energy storage accident.

Energy Focus: Quadruple active security protection, end-to-end security



High reliability: Systems can be separated from each other, ensuring stable power supply for enterprises

It can be separated from each other to ensure continuous production

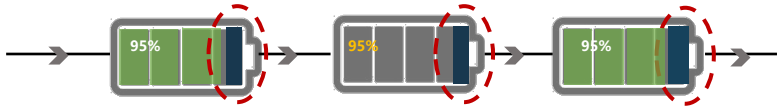
- It can be off-grid and will automatically switch off the grid
- Planned power outages, with tripartite EMS, seamless switching

Optical storage and oil removal, reliable power supply, and reduced energy costs

- The optical storage system reduces the operating time of the oil engine
- It saves about USD14,000/ year in fuel costs and reduces carbon emissions by 378t @Indonesian mines

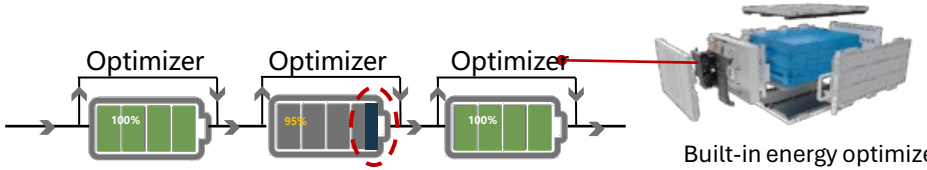
Intelligent discharge: One pack is optimized while the battery pack is charged and discharged independently, increasing the discharge capacity by 5%.

Traditional: Unable to fill up, capacity is wasted



The attenuation/difference of the capacity of a single battery pack affects the overall discharge capacity of the system

Energy Focus： One package and one optimization, independent charging and discharging, increasing the discharge capacity by 5%.



Built-in energy optimizer
Independent charging and discharging, no impact on each other

Simplified O&M: SOC automatic calibration, no experents on the site, and USD16,000 in 10-year maintenance fees

Traditional: SOC calibration requires experts to be on site which is costly, time-consuming, and inaccurate

High cost
USD 278/ hour,
The cost of 10 years is USD 80,000

Earnings are lost
1 person /day, energy storage cannot operate during calibration

Low accuracy
Manual calibration difficult to guarantee accuracy

Energy Focus: SOC automatic calibration, free of manual on-site operation

0 cost
10-year maintenance fee
Save about USD16,000

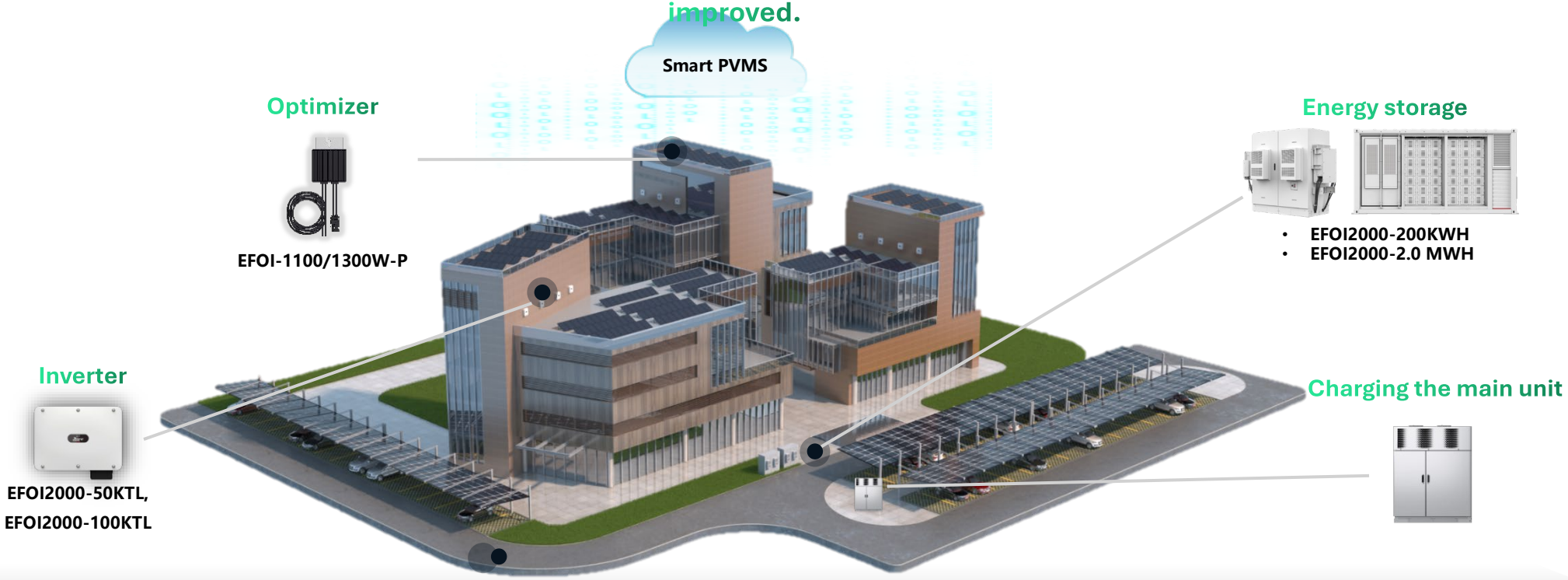
0 time-consuming
Automatic calibration, Energy storage is operating normally

High precision
Intelligent algorithm control, small deviation

The "1+4" optical storage and charging cloud solution for industrial and commercial industries has been comprehensively upgraded to accelerate the green transformation of numerous industries.

One-stop solution: 1 vendor vs. multiple vendors

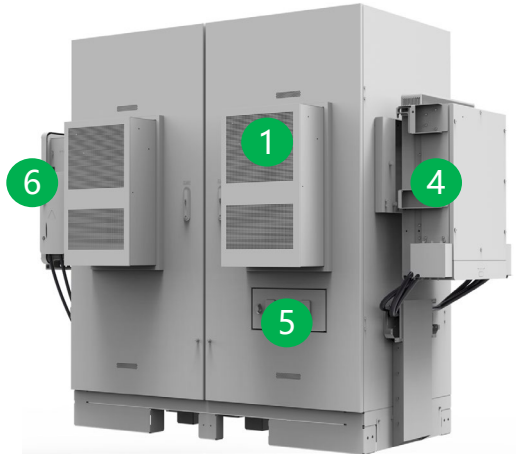
Solution collaboration, delivery and after-sales services have improved.

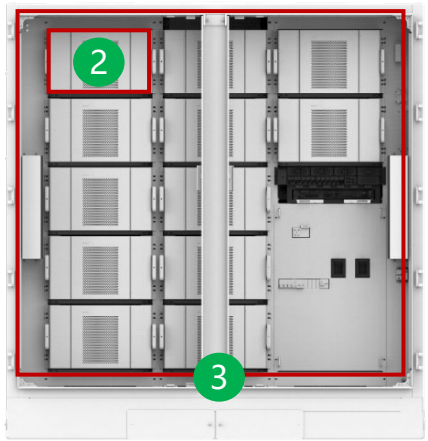


Smart security	High reliability	Smart discharge	Simplified O&M

Small and medium-sized industrial and commercial scenarios： EFOI2000-97/129/161/200KWH

A. Flexible configuration
B. Save investment
C. High power output
D. 1C charge and discharge





1 – Door-mounted distributed air conditioning

2 – Battery pack + battery optimizer

3 – Battery clusters

4 – Smart Battery Cluster Controller

5 – Emergency stop switch, audible and visual alarm

6 – Energy storage PCS

Energy storage model	Energy storage capacity (single cabinet)	Number of battery packs	Maximum charge/discharge ratio	Number of parallel machines
EFOI2000-97KWH-1H1	96.8kWh	6	1C	• Supports up to **20 parallel machines** (Energy storage with different capacities can be paralleled) • Capacity range: 96.8~3870 kWh
EFOI2000-129KWH-2H1	129.0kWh	8	0.8C	
EFOI2000-161KWH-2H1	161.3kWh	10	0.64C	
EFOI2000-200KWH-2H1	193.5kWh	12	0.5C	

*97/129/161KWh The battery pack of the energy storage system is 1C， 193.5kWhThe battery pack of the energy storage system is 0.5C

EFOI-S2KW-B Smart String ESS

Energy Storage System Parameters	
Battery Configuration	12S1P
Maximum battery capacity of the energy storage system	193.5 kWh
Rated Power	100 kW
Dimensions (W x H x D), including DC/DC and PCS	2570mm×2135mm×1200mm
Dimensions (W x H x D)	1810mm×2135mm×1200mm
Weight (including the battery module)	≤2950kg
Weight (without the battery module)	≤1070kg
Operating temperature range	-30 °C ~ 55 °C
Storage temperature range	-40 °C ~ 60 °C
Operating humidity range	0 ~ 100% (non-condensing)
Maximum operating altitude	4,000 m
Installation Environment Requirement	Outdoor installation
Battery temperature control mode	Industrial-grade air conditioner
Fire suppression of energy storage system	YES
Auxiliary Power Supply	220Vac, <=4.2kW
Communication port	Ethernet / SFP
Communication protocol	Modbus TCP
Protection degree	IP55
EMC Protection Rating	ClassA
DC Lightning Protection	Type II
Standards	
Environment	RoHS6
Certification Standards	IEC62619; UL9540A; UN38.3

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