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# Integrated Home ESS

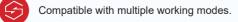


## **\$\$** Product Features



Web/APP interaction with rich content, allowing remote control.

- Fast charging and ultra-long battery life.
- Intelligent temperature control, multiple safety protection and fire protection functions.
- Concise appearance design, integrated with modern home furnishings.



Project	Parameters				
Battery parameters					
Model	Hope-T 5kW/5.12kWh Hope-T 5kW/10.24kWh				
Power	5.12kWh 10.24kWh				
Rated voltage	51.	2V			
Operating voltage range	40V~	58.4V			
Туре	LF	-P			
Communications	RS485	5/CAN			
	Charge: (	0°C~55°C			
Operating temperature range	Discharge: -	-20°C~55°C			
Max charge/discharge current	10	0A			
IP protection	IP	65			
Relative humidity	10%RH-	~90%RH			
Altitude	≤20	00m			
Installation	Wall-m	ounted			
Dimensions (W×D×H)	480mm× 140mm × 475mm	480mm× 140mm × 970mm			
Weight	48.5kg	97kg			
	Inverter parameters				
Max PV access voltage	500	Vdc			
Rated DC operating voltage	360Vdc				
Max PV input power	650	ow			
Max input current	23	3A			
Rated input current	16	6A			
MPPT operating voltage range	90Vdc~	430Vdc			
MPPT lines	2	2			
AC input	220V/2	230Vac			
Output voltage frequency	50Hz/60Hz (aut	omatic detection)			
Output voltage	220V/2	230Vac			
Output voltage waveform	Pure sine wave				
Rated output power	5kW				
Output peak power	6500kVA				
Output voltage frequency	50Hz/60Hz (optional)				
On gird and off grid switching [ms]	≤10				
Efficiency	0.97				
Weight	pht 20kg				
	Certificates				

Security

Transport

IEC62619,IEC62040,VDE2510-50,CEC,CE

IEC61000

UN38.3

## Integrated Commercial and Industrial ESS





#### Safe and reliable

- ·Full-range cell temperature collection + Al predictive monitoring to warn of abnormalities and intervene in advance.
- $\cdot \text{Two-stage overcurrent protection, temperature and smoke detection} + \text{PACK-level and cluster-level composite fire protection}.$
- ·Multiple layers of thermal insulation and intelligent temperature control create an ideal operating environment for batteries.

#### Flexible and stable

- ·Customized operation strategies are more tailored to load characteristics and power consumption habits.
- ·Multi-machine parallel connection, flexible combination of AC and DC integration.
- ·Adapt to multiple inverters and flexibly expand into high-power home energy storage systems.

#### • Intelligent operation and maintenance

- ·Intelligent AI technology, intelligent energy management system (EMS).
- ·Dialogue-based fault query and status monitoring make equipment operation simple and transparent.
- ·Professional operation and maintenance along with monitoring software provide escort to ensure the safety, stability and reliability of the equipment.

	Product Parameters					
Model	ICESS-T 30-20/40/A ICESS-T 39-30/61/A					
AC Side Parameters (Grid-Tied)						
Apparent Power	22kVA 33kVA					
Rated Power	20kW	30kW				
Rated Voltage	4	00Vac				
Voltage Range	400	Vac±15%				
Rated Current	29A	43A				
Frequency Range	50/6	60Hz±5Hz				
Power Factor		0.99				
THDi		≤3%				
AC System	Three-phase	e five-wire system				
	AC Side Parameters (Off-Grid)					
Rated Power	20kW	30kW				
Rated Voltage	3	80Vac				
Rated Current	30A	45A				
Rated Frequency	5	0/60Hz				
THDu		≤5%				
Overload Capacity	110% (10min	) , 120% (1min)				
	Battery Side Parameters					
Battery Capacity	40.96KWh	61.44KWh				
Battery Type	Lithium I	ron Phosphate				
Rated Voltage	409.6V	614.4V				
Voltage Range	371.2V~454.4V	556.8V~681.6V				
Basic Characteristics						
AC/DC Startup Function	Su	ipported				
Islanding Protection	Su	ipported				
Forward/Reverse Switching Time	:	≤10ms				
System Efficiency		≥85%				
Protection Functions		ure, Islanding, SOC Too High/Low, Low Insulation Impedance, it Protection, etc.				
Operating Temperature	-30°C~+55°C					
Cooling Method	Air Cooling + Smart Air Conditioning					
Relative Humidity	≤95%RH, No Condensation					
Altitude	3000m					
IP Protection Level	IP54					
Noise	≤70dB					
Communication Methods	LAN、RS485、4G					
Dimensions (mm)	800*1000*1800	800*1000*2350				

## Integrated Commercial and Industrial ESS



### Product Features

#### Safe and reliable

- ·Full-range cell temperature collection + Al predictive monitoring to alert abnormalities and intervene in advance.
- ·Two-stage overcurrent protection, temperature and smoke detection + PACK-level and cluster-level composite fire protection.
- ·Independent battery space + intelligent temperature control system enables batteries to adapt to harsh and complex environments.

#### • Flexible and stable

- ·Customized operation strategies are more tailored to load characteristics and power consumption habits.
- ·125kW high-efficiency PCS + 314Ah cell configuration for large-capacity systems.
- ·Intelligent photovoltaics-energy storage integration system, with arbitrary selection and flexible expansion at any time.

#### • Intelligent operation and maintenance

- ·Intelligent AI technology and intelligent energy management system (EMS) improve equipment work efficiency.
- ·QR code scanning for fault query and data monitoring, making equipment data status clearly displayed.
- ·Professional operation and maintenance together with monitoring software ensure the safety, stability and reliability of the equipment.

	Product Parameters				
Model	Model ICESS-T 0-125/257/A				
AC Side Parameters (Grid-Tied)					
Apparent Power	137.5kVA				
Rated Power	125kW				
Rated Voltage	400Vac				
Voltage Range	400Vac±15%				
Rated Current	180A				
Frequency Range	50/60Hz±5Hz				
Power Factor	0.99				
THDi	≤3%				
AC System	Three-phase five-wire system				
	AC Side Parameters (Off-Grid)				
Rated Power	125kW				
Rated Voltage	380Vac				
Rated Current	190A				
Rated Frequency	50/60Hz				
THDu	≤5%				
Overload Capacity	110% (10min) , 120% (1min)				
	Battery Side Parameters				
Battery Capacity	257.228KWh				
Battery Type	Lithium Iron Phosphate				
Rated Voltage	819.2V				
Voltage Range	742.2V~921.6V				
	Basic Characteristics				
AC/DC Startup Function	Supported				
Islanding Protection	Supported				
Forward/Reverse Switching Time	≤10ms				
System Efficiency	≥89%				
Protection Functions	Over/Under Voltage, Overcurrent, Over/Under Temperature, Islanding, SOC Too High/Low, Low Insulation Impedance, Short Circuit Protection, etc.				
Operating Temperature	-30°C~+55°C				
Cooling Method	Air Cooling + Smart Air Conditioning				
Relative Humidity	≤95%RH, No Condensation				
Altitude	3000m				
IP Protection Level	IP54				
Noise	≤70dB				
Communication Methods	LAN、RS485、4G				
Dimensions (mm)	1820*1254*2330				

# Liquid-cooled Integrated Commercial and Industrial ESS





#### Safe and reliable

- ·Independent liquid cooling system + compartment isolation, with high protection and safety.
- $\cdot \text{Full-range cell temperature collection + Al predictive monitoring to warn of anomalies and intervene in advance.} \\$
- ·Two-stage overcurrent protection, temperature and smoke detection + PACK-level and cluster-level composite fire protection.

#### · Flexible and stable

- ·Customized operation strategies are more tailored to load characteristics and power consumption habits.
- ·Multi-machine parallel centralized control and management, hot access and hot withdrawal technologies to reduce the impact of failures.
- ·Intelligent photovoltaic-storage integration system, with optional configurations and flexible expansion at any time.

#### · Intelligent operation and maintenance

- $\cdot Intelligent \ AI \ technology \ and \ an \ intelligent \ energy \ management \ system \ (EMS) \ enhance \ equipment \ operational \ efficiency.$
- ·QR code scanning for fault query and data monitoring makes the data status of equipment clearly displayed.
- ·Professional operation and maintenance, escorted by monitoring software, ensure the safety, stability, and reliability of equipment.

	Product Parameters				
Model	Model ICESS-T 0-130/261/L				
	AC Side Parameters (Grid-Tied)				
Apparent Power	143kVA				
Rated Power	130kW				
Rated Voltage	400Vac				
Voltage Range	400Vac±15%				
Rated Current	188A				
Frequency Range	50/60Hz±5Hz				
Power Factor	0.99				
THDi	≤3%				
AC System	Three-phase five-wire system				
	AC Side Parameters (Off-Grid)				
Rated Power	130kW				
Rated Voltage	380Vac				
Rated Current	197A				
Rated Frequency	50/60Hz				
THDu	≤5%				
Overload Capacity	110% (10min) , 120% (1min)				
	Battery Side Parameters				
Battery Capacity	261.248KWh				
Battery Type	Lithium Iron Phosphate				
Rated Voltage	832V				
Voltage Range	754V~936V				
	Basic Characteristics				
AC/DC Startup Function	Supported				
Islanding Protection	Supported				
Forward/Reverse Switching Time	≤10ms				
System Efficiency	≥89%				
Protection Functions	Over/Under Voltage, Overcurrent, Over/Under Temperature, Islanding, SOC Too High/Low, Low Insulation Impedance, Short Circuit Protection, etc.				
Operating Temperature	-30°C~+55°C				
Cooling Method	Liquid Cooling				
Relative Humidity	≤95%RH, No Condensation				
Altitude	3000m				
IP Protection Level	IP54				
Noise	≤70dB				
Communication Methods	LAN、RS485、4G				
Dimensions (mm)	1000*1400*2350				

# Split-type Multi-energy Fusion Power Supply System





#### · Safe and reliable

- ·Independent cabinet-type battery system, with a high-protection-level design of one cabinet per cluster.
- $\cdot \text{Temperature control for each cluster and fire protection for each cluster enable precise regulation of the environmental temperature.}$
- ·Full-range cell temperature collection + Al predictive monitoring to warn of anomalies and intervene in advance.

#### • Flexible and stable

- ·Multiple battery cluster systems in parallel with centralized power management can achieve cluster-by-cluster management or centralized parallel management.
- ·Multi-energy and multi-function integration technology plus an intelligent management system enable flexible and friendly collaboration among devices in composite energy systems.
- ·Flexible configuration of battery systems, flexible power selection, and adaptable on-site installation environments ensure stable operation for customized requirements.

#### • Intelligent operation and maintenance

- $\cdot Intelligent \ AI \ technology \ and \ an \ intelligent \ energy \ management \ system \ (EMS) \ enhance \ equipment \ work \ efficiency.$
- $\cdot Intelligent\ microgrid\ management\ technology\ and\ random\ fault\ with drawal\ strategy\ ensure\ stable\ system\ output.$
- ·Professional operation and maintenance, escorted by monitoring software, ensure the safety, stability, and reliability of equipment.

	Power S	upply Cabinet Product	Parameters					
	30kW 60kW 100kW 125kW 250kW							
Parameter Category	ICS-AC XX-30/54	ICS-AC XX-60/54	ICS-AC XX-100/54	ICS-AC XX-125/54	ICS-AC XX-250/54			
	AC	Side Parameters (Grid	-Tied)					
Apparent Power	33kVA	66kVA	137.5kVA	275kVA				
Rated Power	30kW	60kW	100kW	125kW	250kW			
Rated Voltage	400Vac							
Voltage Range	400Vac±15%							
Rated Current	43A	87A	144A	180A	360A			
Frequency Range			50/60Hz±5Hz					
Power Factor (PF)			0.99					
THDi			≤3%					
AC System		Т	hree-phase five-wire sy	stem				
	AC	Side Parameters (Off-	·Grid)					
Rated Power	30kW	60kW	100kW	125kW	250kW			
Rated Voltage			380Vac±15%					
Rated Current	45A	91A	152A	190A	380A			
Rated Frequency			50/60Hz±5Hz					
THDu			≤5%					
Overload Capacity		110	0% (10min) , 120% (	1min )				
	DC S	Side Parameters (Batte	ry, PV)					
PV Open Circuit Voltage	700V	700V	700V	700V	700V			
PV Voltage Range	300V~670V	300V~670V	300V~670V	300V~670V	300V~670V			
Rated PV Power	30~90kW	60~120kW	100~200kW	120~240kW	240~300kW			
Maximum Supported PV Power			1.1 to 1.4 times					
Number of PV MPPTs			1 to 20 channels					
Battery Voltage Range	300V~1000V	580V~1000V	580V~1000V	580V~1000V	580V~1000V			
BMS Three-Level Display and Control			Available					
Maximum Charging Current	100A	88A	165A	216A	432A			
Maximum Discharging Current	100A	88A	165A	216A	432A			
		Basic Parameters						
Cooling Method			Forced air cooling					
Communication Interface			LAN/RS485					
IP Protection Level			IP54					
Operating Ambient Temperature Range			-25°C~+55°C					
Relative Humidity	≤95%RH, no condensation							
Altitude	3000m							
Noise	≤70dB							
Human-Machine Interface	Touch screen							
Dimensions (mm)	620*1000*2350	620*1000*2350	620*1000*2350	620*1000*2350	1200*1000*2350			

# Split-type Multi-energy Fusion Energy Storage System





#### · Safe and reliable

- ·Independent cabinet-type battery system, with a high-protection-level design of one cabinet per cluster.
- ·Temperature control for each cluster and fire protection for each cluster enable precise regulation of the environmental temperature.
- ·Full-range cell temperature collection + Al predictive monitoring to warn of anomalies and intervene in advance.

#### • Flexible and stable

- ·Multiple battery cluster systems in parallel with centralized power management can achieve cluster-by-cluster management or centralized parallel management.
- ·Multi-energy and multi-function integration technology plus an intelligent management system enable flexible and friendly collaboration among devices in composite energy systems.
- ·Flexible configuration of battery systems, flexible power selection, and adaptable on-site installation environments ensure stable operation for customized requirements.

#### · Intelligent operation and maintenance

- $\cdot Intelligent \ AI \ technology \ and \ an \ intelligent \ energy \ management \ system \ (EMS) \ enhance \ equipment \ work \ efficiency.$
- ·Intelligent microgrid management technology and random fault withdrawal strategy ensure stable system output.
- ·Professional operation and maintenance, escorted by monitoring software, ensure the safety, stability, and reliability of equipment.

Battery Cabinet Product Parameters								
Parameter Category	40kWh ICS-DC 40/A/10	241kWh ICS-DC 241/A/10	417kWh ICS-DC 417/L/10	417kWh ICS-DC 417/L/15				
	Cell Parameters							
Cell Specification	3.2V/100Ah	3.2V/314Ah	3.2V/314Ah	3.2V/314Ah				
Battery Type		Lithium Iron	Phosphate					
	Battery Modul	e Parameters						
Grouping Form	1P1	16S	1P	52S				
Rated Voltage	51.	2V	166	6.4V				
Rated Capacity	5.12kWh	16.076kWh	52.24	9kWh				
Rated Charge/Discharge Current	50A	157A	15	57A				
Rated Charge/Discharge Rate		0.	5C					
Cooling Method	Air cooling liquid cooling							
	Battery Cluste	er Parameters						
Grouping Form	1P128S	1P240S	2P208S	1P416S				
Rated Voltage	409.6V	768V	665.6V	1331.2V				
Rated Capacity	40.98kWh	241.152kWh	417.996kWh	417.996kWh				
Rated Charge/Discharge Current	50A	157A	15	57A				
Rated Charge/Discharge Rate		0.:	5C					
Cooling Method	Air co	poling	liquid	cooling				
Fire Protection	Perfluorohexar	none (optional)	Perfluorohexanone	+ Aerosol (optional)				
Smoke Sensor, Temperature Sensor		1 smoke sensor, 1	temperature sensor					
	Basic Pa	rameters						
Communication Interface		LAN/RS	485/CAN					
IP Protection Level	IP20/IP54 (optional)							
Operating Ambient Temperature Range	erating Ambient Temperature Range -25°C∼+55°C							
Relative Humidity	≤95%RH, no condensation							
Altitude	3000m							
Noise	≤70dB							
Dimensions (mm)	800*800*1600 1250*1000*2350 1350*1400*2350 1350*14							

## Container-type Multi-Energy Fusion Microgrid System





#### • Safe and reliable

- ·Standard container design + independent compartment isolation, with high protection and safety.
- ·Full-range cell temperature collection + Al predictive monitoring to warn of anomalies and intervene in advance.
- ·Three-level overcurrent protection, temperature and smoke detection + PACK-level and cluster-level composite fire protection.

#### • Flexible and stable

- $\cdot$ Customized operation strategies and friendly energy collaboration make it more suitable for load characteristics and power consumption habits.
- ·Large-capacity battery systems and high-power energy supply are suitable for more scenarios.
- ·Intelligent integration system of wind, solar, diesel (gas), storage and grid, with optional configuration and scalable at any time.

#### • Intelligent operation and maintenance

- ·Intelligent AI technology and an intelligent energy management system (EMS) enhance equipment work efficiency.
- ·Intelligent microgrid management technology and random fault withdrawal strategies ensure stable system output.
- ·Professional operation and maintenance, escorted by monitoring software, ensure the safety, stability, and reliability of the equipment.

Product Parameters					
Equipment Model	SCESS-T 500-500/1205/A				
AC Side Parameters (Grid-Connected)					
Apparent Power	550kVA				
Rated Power	500kW				
Rated Voltage	400Vac				
Voltage Range	400Vac±15%				
Rated Current	721A				
Frequency Range	50/60Hz±5Hz				
Power Factor	0.99				
THDi	≤3%				
AC System	Three-phase five-wire system				
	AC Side Parameters (Off-Grid)				
Rated Power	500kW				
Rated Voltage	380Vac				
Rated Current	760A				
Rated Frequency	50/60Hz				
THDu	≤5%				
Overload Capacity	110% (10min) , 120% (1min)				
	DC Side Parameters (Battery, PV)				
PV Open Circuit Voltage	700V				
PV Voltage Range	300V~670V				
Rated PV Power	30~90kW				
Maximum Supported PV Power	1.1 to 1.4 times				
Number of PV MPPTs	1 to 20 channels				
Battery Voltage Range	696V~864V				
BMS Three-Level Display and Control	Available				
Maximum Charging Current	785A				
Maximum Discharging Current	785A				
Maximum Number of Battery Clusters	5 clusters				
	Basic Characteristics				
Cooling Method	Forced air cooling				
Communication Interface	LAN/CAN/RS485				
IP Protection Level	IP54				
Operating Ambient Temperature Range	-25°C~+55°C				
Relative Humidity	≤95%RH, no condensation				
Altitude	3000m				
Noise	≤70dB				
Human-Machine Interface	Touch screen				
Dimensions (mm)	6058*2438*2896				

## Container-type Multi-Energy Fusion Microgrid System



## **\$** Product Features

#### • Safe and reliable

- ·Standard container design + independent compartment isolation, with high protection and safety.
- ·Full-range cell temperature collection + Al predictive monitoring to warn of anomalies and intervene in advance.
- ·Three-level overcurrent protection, temperature and smoke detection + PACK-level and cluster-level composite fire protection.

#### • Flexible and stable

- ·Customized operation strategies and friendly energy collaboration make it more suitable for load characteristics and power consumption habits.
- ·Large-capacity battery systems and high-power energy supply are suitable for more scenarios.
- ·Intelligent integration system of wind, solar, diesel (gas), storage and grid, with optional configuration and scalable at any time.

#### • Intelligent operation and maintenance

- ·Intelligent AI technology and an intelligent energy management system (EMS) enhance equipment work efficiency.
- ·Intelligent microgrid management technology and random fault withdrawal strategies ensure stable system output.
- ·Professional operation and maintenance, escorted by monitoring software, ensure the safety, stability, and reliability of the equipment.

Product Parameters					
Equipment Model	SCESS-T 500-500/2089/L				
AC Side Parameters (Grid-Connected)					
Apparent Power	550kVA				
Rated Power	500kW				
Rated Voltage	400Vac				
Voltage Range	400Vac±15%				
Rated Current	721A				
Frequency Range	50/60Hz±5Hz				
Power Factor	0.99				
THDi	≤3%				
AC System	Three-phase five-wire system				
	AC Side Parameters (Off-Grid)				
Rated Power	500kW				
Rated Voltage	380Vac				
Rated Current	760A				
Rated Frequency	50/60Hz				
THDu	≤5%				
Overload Capacity	110% (10min) , 120% (1min)				
	DC Side Parameters (Battery, PV)				
PV Open Circuit Voltage	700V				
PV Voltage Range	300V~670V				
Rated PV Power	30~90kW				
Maximum Supported PV Power	1.1 to 1.4 times				
Number of PV MPPTs	1 to 20 channels				
Battery Voltage Range	603.2V~748.8V				
BMS Three-Level Display and Control	Available				
Maximum Charging Current	1570A				
Maximum Discharging Current	1570A				
Maximum Number of Battery Clusters	10 clusters				
	Basic Characteristics				
Cooling Method	Air cooling + liquid cooling				
Communication Interface	LAN/CAN/RS485				
IP Protection Level	IP54				
Operating Ambient Temperature Range	-25°C~+55°C				
Relative Humidity	≤95%RH, no condensation				
Altitude	3000m				
Noise	≤70dB				
Human-Machine Interface	Touch screen				
Dimensions (mm)	6058*2438*2896				

# Container-type Multi-Energy Integrated Power Supply System



### Product Features

#### Safe and reliable

- ·Standard container design with high protection level, adapting to various harsh environments.
- ·Multi-level energy protection, predictive fault detection, and advance disconnection improve equipment reliability.
- ·With the integration of intelligent AI technology and multiple fault, the system becomes safe and reliable.

#### • Flexible and stable

- ·Intelligent integrated system of wind, solar, diesel (gas), storage and grid, with optional configurations and scalable at any time.
- ·Combined with local resources, maximize the utilization of multiple energy accesses to enhance energy collection capabilities.
- ·Multi-energy module combination with centralized power management enables cluster-level and source-level management.

#### • Intelligent operation and maintenance

- ·Intelligent AI technology and an intelligent energy management system (EMS) improve equipment operational efficiency.
- $\cdot Intelligent\ microgrid\ management\ technology\ and\ random\ fault\ with drawal\ strategies\ ensure\ stable\ system\ output.$
- ·Professional operation and maintenance, escorted by monitoring software, ensure the equipment is safe, stable, and reliable.

	Power Container Product Parameters			
Continuent Madel	1000kW			
Equipment Model	ICS-AC XX-1000/54			
	AC Side Parameters (Grid-Connected)			
Apparent Power	1100kVA			
Rated Power	1000kW			
Rated Voltage	400Vac			
Voltage Range	400Vac±15%			
Rated Current	1443A			
Frequency Range	50/60Hz±5Hz			
Power Factor (PF)	0.99			
THDi	≤3%			
AC System	Three-phase five-wire system			
	AC Side Parameters (Off-Grid)			
Rated Power	1000kW			
Rated Voltage	380Vac±15%			
Rated Current	1519A			
Rated Frequency	50/60Hz±5Hz			
THDU	≤5%			
Overload Capacity	110% (10min) , 120% (1min)			
	DC Side Parameters (Battery, PV)			
PV Open Circuit Voltage	700V			
PV Voltage Range	300V~670V			
Rated PV Power	100~1000kW			
Maximum Supported PV Power	1.1 to 1.4 times			
Number of PV MPPTs	8 to 80 channels			
Battery Voltage Range	300V~1000V			
BMS Three-Level Display and Control	Available			
Maximum Charging Current	1470A			
Maximum Discharging Current	1470A			
	Basic Parameters			
Cooling Method	Forced air cooling			
Communication Interface	LAN/RS485			
IP Protection Level	IP54			
Operating Ambient Temperature Range	-25°C~+55°C			
Relative Humidity	≤95%RH, no condensation			
Altitude	3000m			
Noise	≤70dB			
Human-Machine Interface	Touch screen			
Dimensions (mm) 3029*2438*2896				

# Energy Storage and Step-up Integrated System



## **\$** Product Features



It maintains full capacity at a ambient temperature of 50°C and is fearless of desert, Gobi and barren areas.

The system capacity can be flexibly expanded to 6.9MW.

Dry-type transformers or oil-type transformers are optional, with customized design for high and low voltage.

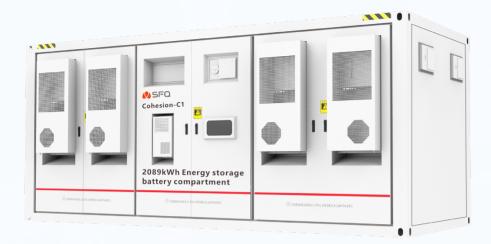
Unified external communication interface for quick debugging.

Perfect electrical protection fully guarantees the safety of the battery system.

Create better life with green energy	
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Power Container Product Parameters						
Models	2500kW 5000kW ICS-AC XX-1000/54 ICS-AC XX-1000/54					
	DC Side Parameters					
Rated Power	2500kW	5000kW				
Maximum DC Bus Voltage	1	500V				
Maximum DC Current	1375A*2	2750A*2				
DC Voltage Operating Range	1000\	√ ~ 1500V				
Number of DC Inputs	2	2/4				
	AC Side Parameters					
Rated Power	2500kW	5000kW				
Maximum Output Power	2750kW	5500kW				
Isolation Method	Transfor	mer isolation				
Reactive Power Range	0 ~ 2500kVar	0 ~ 5000kVar				
	Grid-Connected Operation Parameters					
Rated Grid Voltage	Rated Grid Voltage 6kV / 10kV / 35kV					
Rated Grid Frequency	50H	z / 60Hz				
Allowed Grid Frequency	47Hz ~ 53H	z / 57Hz ~ 63Hz				
Total Harmonic Distortion of Current		0.03				
Power Factor	-	1 to 1				
	Transformer Parameters					
Rated Capacity	2500kVA	5000kVA				
Transformer Type	Dry-type / Oil-in	nmersed transformer				
Low Voltage/Medium Voltage (LV/MV)	0.69 /	(6-35) kV				
No-Load Loss	Meets nat	ional standard				
Load Loss	Meets nat	ional standard				
No-Load Current	Meets nat	ional standard				
Impedance	Meets nat	ional standard				
	System Parameters					
Allowed Ambient Temperature	-30°C to +60°C (>40°C derating for 2500kW)	-30°C to +60°C (>50°C derating for 5000kW)				
Allowed Relative Humidity	0 ~	-100%				
Allowed Altitude	≤4000m (derating above 2000m)					
Protection Level	IP54					
Battery Communication Interface	RS485 / CAN					
EMS Communication Interface	Ethernet interface					
Communication Protocol	Modbus RTU / Modbus TCP / IEC104 / IEC61850					
Compliance Standard	GB/T 34120, GB/T 34133, GB/T 36547					
Grid Support	High and low voltage ride-through, frequency regulation, voltage regulation					

# Large-scale Container Energy Storage System





### Product Features

- Independent liquid cooling system + cluster-level temperature control technology + compartment isolation, with high protection and safety.
  - Full-range cell temperature collection + Al predictive monitoring to alert abnormalities and intervene in advance.
- Cluster-level temperature and smoke detection + PCAK-level and cluster-level composite fire protection.
- Customized busbar output to meet the customization of various PCS access and configuration schemes.
- Standard box design with high protection level and high anti-corrosion level, stronger adaptability and stability.
- Professional operation and maintenance, as well as monitoring software, ensure the safety, stability and reliability of the equipment.

Create	petter	life with	green	energy	/////	

Battery Container Product Parameters				
Equipment Models	1929kWh ICS-DC 1929/A/10	2089kWh ICS-DC 2089/A/15	2507kWh ICS-DC 2507/L/15	5015kWh ICS-DC 5015/L/15
Cell Parameters				
Cell Specification	3.2V/314Ah			
Battery Type	Lithium iron phosphate			
Battery Module Parameters				
Grouping Form	1P16S	1P26S	1P26S	1P52S
Rated Voltage	51.2V	83.2V	83.2V	166.4V
Rated Capacity	16.076kWh	26.124kWh	26.124kWh	52.249kWh
Rated Charge/Discharge Current	157A			
Rated Charge/Discharge Rate	0.5C			
Cooling Method	Air cooling Liquid cooling			cooling
Battery Cluster Parameters				
Grouping Form	8P240S	5P416S	6P416S	12P416S
Rated Voltage	768V	1331.2V	1331.2V	1331.2V
Rated Capacity	1929.216kWh	2089.984kWh	2507.980kWh	5015.961kWh
Rated Charge/Discharge Current	1256A	785A	942A	1884A
Rated Charge/Discharge Rate	0.5C			
Cooling Method	Air cooling Liquid cooling			
Fire Protection	Perfluorohexanone (optional)			
Smoke and Temperature Sensors	Each cluster: 1 smoke sensor, 1 temperature sensor			
	Basic	Parameters		
Communication Interface	LAN/RS485/CAN			
IP Protection Level	IP54			
Operating Ambient Temperature Range	-25°C~+55°C			
Relative Humidity	≤95%RH, no condensation			
Altitude	3000m			
Noise	≤70dB			
Dimensions (mm)	6058*2438*2896	6058*2438*2896	6058*2438*2896	6058*2438*2896