

ENERGY STORAGE SYSTEM SOLUTION



Hefei Hefu Intelligent Energy Co.,Ltd

TO MAKE ENERGY STORAGE MORE INTELLIGENT AND LIFE MORE GREEN

Hefei Hefu Intelligent Energy Co.,Ltd

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ABOUT HFIE

HFIE, a subsidiary of Anfu technology (stock code: 603031), has strategically expanded its presence in the new energy industry. The company positions itself as a global provider of comprehensive solutions for new energy power electronics and energy storage, aiming to become a high-tech company specializing in energy storage system integration and "generation-grid-load-storage" overall solutions.



To make the energy storage more intelligent and life more green



Leading technology, putting customers first, committing itself to becoming an outstanding company





Co-creation, sharing, breakthrough, innovation

GLOBAL FOOTPRINT

team in key markets

Germany·Hannover

HFlE Energy Service GmbH

Australia · Melbourne

Solar Energy Storage Plant Solution

China•Hefei

Energy Storage System R&D Hefu Import and Export Co.,Ltd

Singapore

Southeast Asia Distribution Center

HFIE



30kW + 60kWh System Solution

Item	Product Model	Quantity	Description
PV	HFD72P-580N	52	N type, bifacial glass
	High Voltage Box	1	High voltage box
Battery	Battery Rack	1	Battery rack
	Battery 51.2V 200AH	6	Battery pack
PV Combiner Box	4 Input 4 Output	1	For multiple PV modules
Inverter	SUN-30K	1	30kw hybrid inverter
PV Cable	PV 1*4MM ²	400	4mm² cable
MC4 Connector	STAUBLI EVO2 Connector	10	1000V/30A
Monitoring Device	WiFi	1	Data collector
Mounting System	Ground/Roof Mounting	1	Whole set for 30kw PV

50kW + 100kWh System Solution

Item	Product Model	Quanti
PV	HFD72P-580N	84
	High Voltage Box	1
Battery	Battery Rack	1
	Battery 51.2V 280AH	7
PV Combiner Box	6 Input 6 Output	1
Inverter	SUN-50K	1
PV Cable	PV 1*4MM ²	800
MC4 Connector	STAUBLI EVO2 Connector	20
Monitoring Device	WiFi	1
Mounting System	Ground/Roof Mounting	1

Products Display



MC4 Connector

ty	Description
	N type, bifacial glass
	High voltage box
	Battery rack
	Battery pack
	For multiple PV modules
	50kw hybrid inverter
	4mm² cable
	1000V/30A
	Data collector
	Whole set for 50kw PV



PV Combiner Box





Monitoring Device



HFD72P-xxxN(560-580W)

N-type/Bifacial Glass/144 Half-cells





Main Advantages

- SMBB main gate technology, higher module power
- Bifacial solar panels, significant power gain
- (2_{EL}) 2 rounds of 100% EL testing
- Lower power degradation for higher power output
- (N-type bifacial, reduced PID effect
- (a) Enhanced weather resistance for bifacial structure

Comprehensive System and Product Certification

- IEC61215, IEC61730
- TUV, CE
- ISO 9001:2015
- ISO 14001:2015
- ISO 45001:2018

Excellent Power Guarantee



30-year linear power output guarantee

12-year material and manufacturing process warranty, initial year power degradation not exceeding 1.0%, subsequent annual power degradation not exceeding 0.4%, at the end of the 30-year warranty period, the panel's power will not be lower than 87.4% of the nominal power. The power testing mentioned above is conducted under standard test conditions.

Electrical Performance Parameters Under Standard Test Conditions

Maximum Power Output (W) 0~+5W	560
Maximum Operating Voltage (V)	42.43
Maximum Operating Current (A)	13.20
Open Circuit Voltage (V) ±3%	50.70
Short Circuit Current (A) ±3%	14.11
Conversion Efficiency	21.68%
Maximum System Voltage	1500V
Maximum Fuse Rating	30A
Backside Gain 5% (W)	582
Backside Gain 15% (W)	627
Backside Gain 25% (W)	672

Temperature Parameters

Operating Temperature Range	-40~+85℃
Nominal Operating Temperature	45±2℃
Short Circuit Current Temperature Coefficient	0.042%/°C
Open Circuit Voltage Temperature Coefficient	-0.257%/°C
Maximum Power Temperature Coefficient	-0.300%/°C
Backside Ratio	80%±5%

Warranty Program

12-Year Technology and Material Quality Guarantee30-Year Linear Power Output Guarantee

580W Monocrystalline Module IV Curve



Irradiance 800W/m²

(E

Nominal Operating Temperature

565	570	575	580
42.61	42.83	43.01	43.22
13.26	13.31	13.37	13.42
50.89	51.09	51.29	51.50
14.17	14.23	14.29	14.35
21.87%	22.07%	22.26%	22.45%
1500V	1500V	1500V	1500V
30A	30A	30A	30A
588	593	598	603
633	638	644	649
678	684	690	696

Mechanical Parameters

Module Dimensio	ons	2278×1134×30mm
Module Weight		31.5kg±3%
Snow Load/Wind	Load	5400/2400 Pa
Number of Solar	Cells	144pcs
Glass Thickness		Bifacial 2.0mm
Junction Box		IP68, 3 diodes
Cable length	positive pole 2	50mm, negative pole 300mm
Connectors		HTC-16, IP68

Package Information

Number of Modules per Pallet	36pcs
Number of Modules per 40ft High Container	720pcs



HFIE

Three Phase Hybrid Inverter

SUN-29.9/30/35/40/50K-SG01HP3-EU-BM3/4





Max.charging/discharging current of 100A



100% unbalanced output, each phase Max.output up to 50% rated power



DC couple and AC couple to

retrofit existing solar system

High voltage battery higher efficiency



battery charging/discharging



Max.10pcs parallel for on-grid and off-grid operation, support multiple batteries parallel

<table-container>Sample Set Set Set Set Set Set Set Set Set Se</table-container>	Model	SUN-29.9K-SG01HP3 -EU-BM3	SUN-30K-SG01HP3 -EU-BM3	SUN-35K-SG01HP3 -EU-BM3	SUN-40K-SG01HP3 -EU-BM3	SUN-50K-SG01HP3 -EU-BM3
BargenergySequenceHarg	Battery Input Data					
<table-container>sequencySequencyKalangeng convert)SequencyKalangeng convert)SequencyKalangeng convert in langeng convert</table-container>	Battery Type			Lithium-ion		
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<table-container>Name and the set of the set</table-container>	Max. Charging Current (A)			50+50		
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Wate Classical Section 1990 1990 1990 1990 1990 1990 1990 199	Charging Strategy for Li-ion Battery			Self-adaption to BMS		
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<table-container>https://protecting/M6 86M6 86M6 86M6 86M6 86M6 86M6 86Band City Valage (Y)555 556<!--</td--><td>MPPT Range (V)</td><td></td><td></td><td>150-850</td><td></td><td></td></table-container>	MPPT Range (V)			150-850		
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Concreator input/Smart load AC couple current (A) AC couple curre	Max. Continuous AC Passtnrough (A)			200		
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Prover FactorC.B. Leading to O.B. LeagingOutput Frequency and VoltageS0/60/Hz; SL/MPE 203/380, 230/400VacCind TypeThree PhaseTotal Harmonic Distortion (THD)<3% (of nominal power)	/AC couple current (A)					
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Total Harmonic Distortion (THD)< 3% (fronminal power)DC current hjection< 0.5% in	Grid Type			Three Phase		
Dic current injection < < 0.5% in	Total Harmonic Distortion (THD)	< 3% (of nominal power)				
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Communication with BMS R5485; CAN Weight (kg) 75 Size (mm) 5270x-8941+x294D Protection Degree IP65 Installation Style Wall-mounted Warranty 5 years	Noise (dB)			≤65 dB		
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Protection Degree IP65 Installation Style Wall-mounted Warranty 5 years	Size (mm)			527W×894H×294D		
Installation Style Wall-mounted	Protection Degree	IP65				
Warranty 5 years	Installation Style	Wall-mounted				
	Warranty	5 years				

HFIE

Lithium Ion Battery

Battery mode: LV-IESS-RH14.336Aa-Unit Product description: IFpP/71/173/204/[1P16S]M/-20+55/95





Easy Installation

Simple structure, small footprint, flexible layout, easy installation operation and maintenance



Intelligent Control System

Can be connected to the local monitoring system for system control; In the event of an unexpected situation, it can be suppressed at the first time



Safe & Reliable

Built-in fire control, temperature control, system warning function for multiple security



Convenient Operation

All equipment is integrated in the cabinet, only external wiring harnesses are connected on site, no secondary assembly is required; Transportation with battery modules is supported

Outward Appearance and Dimension









Model	LV-IESS-RH10.240Aa-Unit	LV-IESS-RH14.336Aa-Unit	
Nominal Voltage(Vdc)	51.2		
Rated Capacity(A)	200	280	
Battery Impedance(mΩ)	≤5	0	
Shipment Voltage(Vdc)	51.2-	58.4	
Limited Charging Voltage(Vdc)	58	.4	
Battery Weight(Kg)	95	115	
Recommended Charging Method			
Ambient Temperature(°C)	0-15/15-55		
Relative Humidity	65±20%		
Charging Current	Max 0.5C		
Limited Charging Voltage(Vdc)	Max 58.4		
Cut-off Current of CV	0.025C		
Recommendation Charge/Discharge Current	0.5C 100A 0.5C 140A		
Maximum Charge/Discharge Current	1.0C 200A	1.0C 280A	
Discharge Cut-off Voltage(Vdc)	40		
Working Environment			
Operating Temperature	Charge 0~55°C/Discharge -20~55°C		
Storage Environment (50% state of charge)	≤3 Months -20~45°C/ > 3 Months 25±3°C		
Humidity	65±20%RH		



Installation Service



Steinstr.10B 30559 Hannover

Service Time

Mo-Fr: 08:00-17:00 Uhr

Contact number

+49 511 5910 6676

info@hfie-energy.de



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E-mail

Website

https://hfie-energy.de/



















Project Cases



50.1kW/114kWh



29.6kW/61.4kWh



29.9kW/61.4kWh

Southeast Asian



119.4kW/245.7kWh



216kW/573.4kWh

South Africa

Europe



HFIE POWER

WeChat Scan t<u>he QR code</u>

Contact US



39.9kW/69kWh



32.2kW/61.4kWh





WhatsApp Commercial Account