FOUANI
Group

SOLAR POWER BRANDS

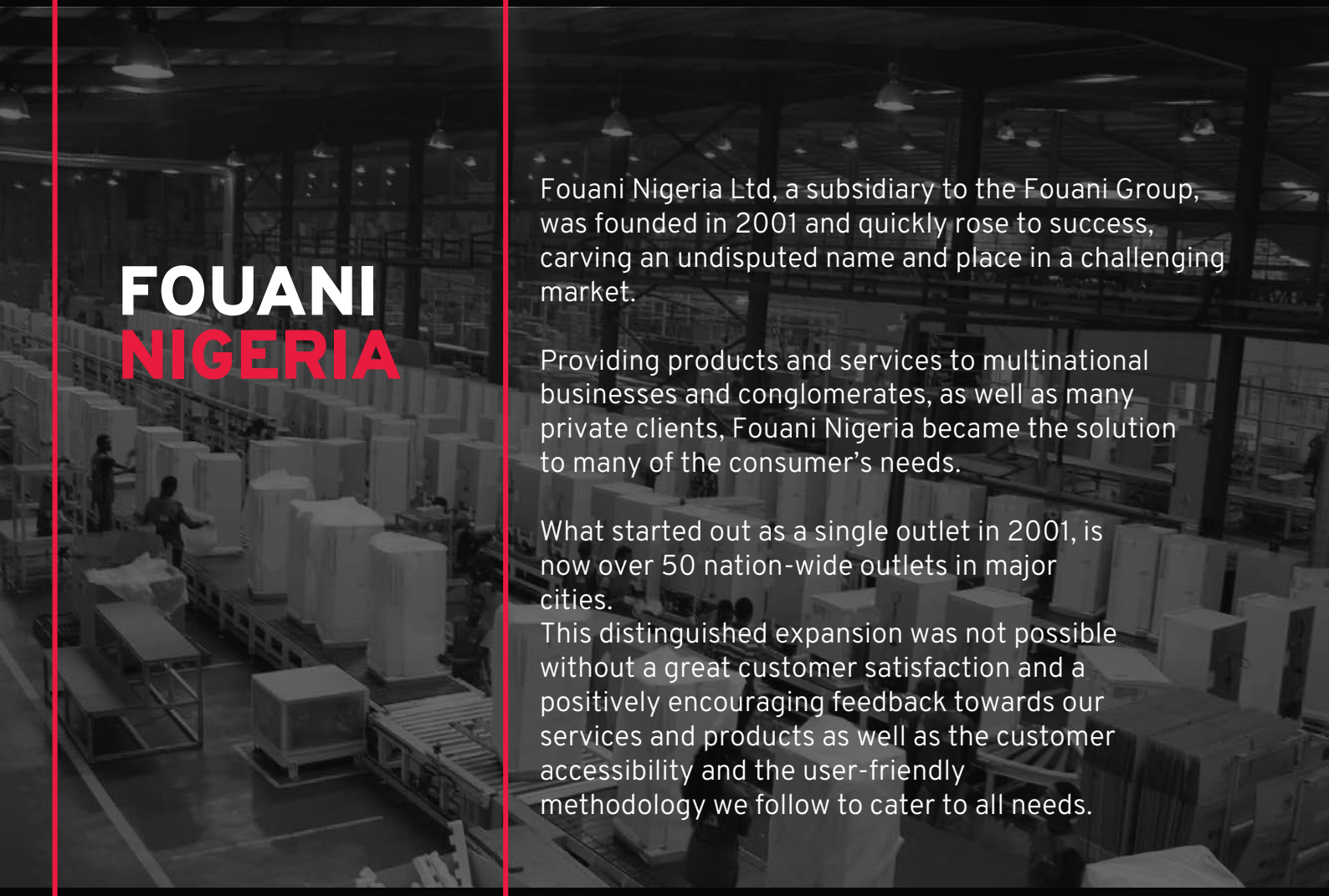
ABOUT FOUANI

Fouani Group is a multinational enterprise operating in Nigeria, Guinea, Gambia, Lebanon, Congo and Liberia.

Since its inception, Fouani Group has excelled in multiple industries, establishing itself as a leading player in large-scale electronics manufacturing and assembly, as well as electronics distribution. Additionally, the company has made a significant impact in the fast-moving consumer goods (FMCG) sector, cementing its position as a distinguished name in these industries.

Fouani Group's distinction is highlighted by its trade in a range of high-end brands, including but not limited to LG, Hisense, and Maxi. This diverse portfolio of prestigious brands sets Fouani Group apart from its competitors and establishes the company as a prominent player in the industry.

FOUANI NIGERIA



Fouani Nigeria Ltd, a subsidiary to the Fouani Group, was founded in 2001 and quickly rose to success, carving an undisputed name and place in a challenging market.

Providing products and services to multinational businesses and conglomerates, as well as many private clients, Fouani Nigeria became the solution to many of the consumer's needs.

What started out as a single outlet in 2001, is now over 50 nation-wide outlets in major cities.
This distinguished expansion was not possible without a great customer satisfaction and a positively encouraging feedback towards our services and products as well as the customer accessibility and the user-friendly methodology we follow to cater to all needs.


HUAWEI
Growatt
PYLONTECH
JinKO Solar
INTRODUCING OUR
SOLAR POWER SOLUTIONS BRANDS


Solar
JinKO
Building Your Trust in Solar

440W Monofacial Solar Panel
JINKOSP440N-54HL4-V

N-type M10/182mm Wafer
TOPCon Technology
Higher Efficiency
Lower LCOE
Lower Degradation
Size: 1762×1134×30mm

450W Monofacial Solar Panel
JINKOM450N-54HL4R-V

N-type M10/182mm Wafer
TOPCon Technology
Higher Efficiency
Lower LCOE
Lower Degradation
Size: 1762x1134x30mm

485W Monofacial Solar Panel
JINKOSP485N-60HL4-V

N-type M10/182mm Wafer
TOPCon Technology
Higher Efficiency
Lower LCOE
Lower Degradation
Size: 1903x1134mmx30mm

555W Monofacial Solar Panel
JINKOSP555N-72HL4-V

P-type M10/182mm Wafer
TOPCon Technology
Higher Efficiency
Lower LCOE
Lower Degradation
Size: 2278x1134x35mm

580W Monofacial Solar Panel
JINKOSP580N-72HL4-V

N-type M10/182mm Wafer
TOPCon Technology
Higher Efficiency
Lower LCOE
Lower Degradation
Size: 2278x1134x35mm

615W Monofacial Solar Panel
JINKOM615N-78HL4-V

N-type M10/182mm Wafer
TOPCon Technology
Higher Efficiency
Lower LCOE
Lower Degradation
Size: 2465×1134×35mm

12 Years Product Warranty
22-23 % Module Efficiency
25 Year Linear Power Warranty

HUAWEI Growatt PYLONTECH JinKO Solar

HUAWEI

HUAWEI POWER-M

Say Goodbye to Power Outage

- Active Safety
- Seamless Switchover
- Silent and Sleek Design
- Reliable 24 Hours Power Supply
- Built-in Energy Optimizer

Supplementary Power Supply, 24-hours Uninterrupted Power

5 Years Product Warranty

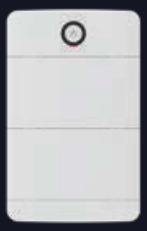
References Configuration & Application Scenarios

*Recommended configuration only for reference, result might vary.

2.5 kW + 5 kWh | 3 - 4 hrs | 1750W

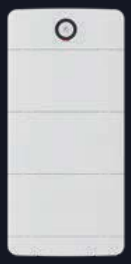
Lamp x2
Home Theatre x2
TV & Console x2
Blender x1
Fan x1
Refrigerator x1
Washing Machine x1

5.0 kW + 10 kWh | 3 - 4 hrs | 3150W



Lamp x3
Home Theatre x3
TV & Console x3
Blender x1
Fan x2
Refrigerator x1
Inverter AC x1
Washing Machine x1

5.0 kW + 15 kWh | 3 - 4 hr | 4150W



Lamp x3
Home Theatre x3
TV & Console x3
Blender x1
Fan x2
Refrigerator x1
Microwave x1
Inverter AC x1
Washing Machine x1

10 kW + 20 kWh | 3 - 4 hr | 7950W

Lamp/Home Theatre x3
TV & Console x3
Blender x1
Fan x2
Refrigerator x1
Electric Kettle x1
Electric Iron x1
Microwave x1
Inverter AC x2
Washing Machine x1

10 kW + 30 kWh | 4 - 5 hr | 7950W

Lamp/Home Theatre x3
TV & Console x3
Blender x1
Fan x2
Refrigerator x1
Electric Kettle x1
Electric Iron x1
Microwave x1
Inverter AC x2
Washing Machine x1

15 kW + 30 kWh | 3 - 4 hr | 10000W

Lamp/Home Theatre
TV & Console x4
Blender x1
Fan x4
Refrigerator x3
Electric Kettle x1
Electric Iron x1
Microwave x1
Inverter AC x3
Washing Machine x1

15 kW + 45 kWh | 4 - 5 hr | 10000W

Lamp/Home Theatre x4
TV & Console x4
Blender x1
Fan x4
Refrigerator x3
Electric Kettle x1
Electric Iron x1
Microwave x1
Inverter AC x3
Washing Machine x1

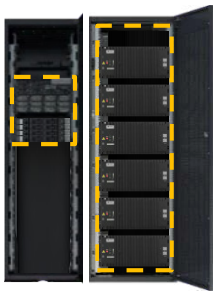
Typical configuration: POWER-S

Indoor

1 15kW+30kWh

- 18kVA Inverter
- 16kW Battery charger
- 16kW Solar MPPT charger
- 28.8kWh Lithium battery
- 3*200Ah,0.5C,6500cycles

2 30kW+60kWh



- 36kVA Inverter
- 16kW Battery charger
- 32kW Solar MPPT charger
- 57.6kWh Lithium battery
- 6*200Ah,0.5C,6500cycles

3 60kW+120kWh

- 72kVA Inverter
- 32kW Battery charger
- 64kW Solar MPPT charger
- 115.2kWh Lithium battery
- 12*200Ah,0.5C,6500cycles

4 60kWh

- 57.6kWh Lithium battery
- 6*200Ah,0.5C,6500cycles
- optional

5 30kW

- 36kVA Hybrid inverter
- 16kW Battery charger
- 32kW Solar MPPT Charger

6 8kW-PVDU

Solar access capacity expansion:

- 8kW Solar MPPT Charger
- Optional

Outdoor

7 30kW+30kWh

- 36kVA Inverter
- 16kW Battery charger
- 32kW Solar MPPT charger
- 28.8kWh Lithium battery
- 6*100Ah,1C,6000cycles

8 60kW+60kWh

72kVA Inverter
32kW Battery charger
64kW Solar MPPT charger
57.6kWh Lithium battery
12*100Ah,1C,6000cycles

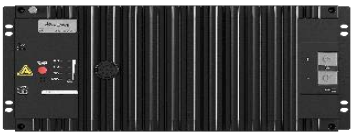
Remark:
1. Including: battery, inverter, battery charger, solar MPPT, bypass, AC SPD, EMS, D.G. controller, internal cables, communications module.
2. Common C&I: Typical average load PF ≥ 0.83; Data Center Equipment: Typical average load PF~1.
3. Local touch color screen is optional

Indoor Power & Battery system ICC200-N6-H2 Specification

Indoor 36kVA power

Hybrid Power ETP23036-C6A1
36kVA AC@6U

ESM-48100A7
Maximum 6 pcs per cabinet



ESM-48200A1
Maximum 3 pcs per cabinet

Technical Specifications		ICC200-N6-H2	
PV input	Input voltage	90~440 V DC	
	Power	4kW per module	
AC input	Rated input voltage	Three-phase，85~300Vac	
	Rated input frequency	45~66Hz	
	Max. input current	3 x 120 A	
	AC bypass	36kVA	
AC output	Rated output power	16kW DC/36kVA AC，support 2 connected in parallel: 32kW DC/72kVA AC	
	Rated output voltage	Three-phase，220V AC	
	Rated output frequency	50 Hz / 60 Hz	
	Output branch	1 × 100 A/3P MCB	
DC output	Output voltage	42V to 58V DC, default: 53.5V DC	
	SPD	10 kA differential mode, 20 kA common mode, 8/20 μs	
Battery parameters	Battery Model	ESM-48100A7	ESM-48200A1
	Battery capacity	100Ah	200Ah
	Battery material type	LiFePO4	LiFePO4
	Battery dimensions	442*396*130 mm	442*560*218 mm
	Battery operating voltage	44~57 V DC	44~57 V DC
	Rated voltage	48V DC	48V DC
	Maximum charging current	100 A @ 35℃	100 A @ 25℃
	Maximum discharge current	100 A	100 A
	Cycle performance	6000 @ 0.5C, 85% DOD, 70% EOL, 35℃	6500 cycles @0.5C/0.5C,85% DOD, 25ºC
	Numbers per cabinet	6	3 (Need adjustment guide rails)
General parameters	Dimensions (W x D x H)	600 mm ×600 mm ×2000 mm (excluding the base 100mm)	
	Weight	<150 kg	
	Operating temperature	-20℃~ 45℃	
	Storage temperature	-40℃ ~ 70℃	
	Cooling mode	Natural cooling	
	Altitude	0 ~ 5000m (The temperature is derated when the altitude ranges from 2000 m to 5000 m. The temperature decreases by 1℃ for each additional 200 m)	
	Relative humidity	5~95%, non-condensing	
	Protection level	IP20	
	Protection function	Low-voltage protection, over-voltage protection, over-current protection, over-temperature protection, short-circuit protection, and reverse connection protection	
	Communication type	CAN, RS485, GPRS, IP	
	Authentication certificate	CE, ROHS6	

SUN2000-100KTL-M2

Smart PV Controller

SUN2000-100KTL-M2

Technical Specification

Technical Specification	SUN2000-100KTL-M2
Efficiency	
Max. efficiency	98.6% @ 400 V, 98.8% @ 480 V
European efficiency	98.4% @ 400 V, 98.6% @ 480 V
Input	
Max. Input Voltage [1]	1,100 V
Max. Current per MPPT	30 A
Max. Current per Input [3]	20 A
Max. Short Circuit Current per MPPT	40 A
Start Voltage	200 V
MPPT Operating Voltage Range [2]	200 V ~ 1,000 V
Nominal Input Voltage	600 V @ 400 Vac, 720 V @ 480 Vac
Number of MPP trackers	10
Max. input number per MPP tracker	2
Output	
Nominal AC Active Power	100,000 W
Max. AC Apparent Power	110,000 VA
Max. AC Active Power (cosϕ=1)	110,000 W
Nominal Output Voltage	380 V/ 400 V/ 480 V, 3W+(N)+PE
Rated AC Grid Frequency	50 Hz / 60 Hz
Nominal Output Current	144.4 A @ 400 V, 120.3 A @ 480 V
Max. Output Current	160.4 A @ 400 V, 133.7 A @ 480 V
Adjustable Power Factor Range	0.8 leading... 0.8 lagging
Max. Total Harmonic Distortion	< 3%
Protection	
Input-side Disconnection Device	Yes
Anti-islanding Protection	Yes
AC Overcurrent Protection	Yes
DC Reverse-polarity Protection	Yes
PV-array String Fault Monitoring	Yes
DC Surge Arrester	Type II
AC Surge Arrester	Type II
DC Insulation Resistance Detection	Yes
Residual Current Monitoring Unit	Yes
Arc Fault Protection	Yes
Smart String Level Disconnector	Yes
Communication	
Display	LED indicators; WLAN adaptor + FusionSolar APP
RS485	Yes
USB	Yes
Smart Dongle-4G	Smart Dongle – 4G / WLAN (Optional)
Monitoring BUS (MBUS)	Yes (isolation transformer required)
General Data	
Dimensions (W x H x D)	1,035 x 700 x 365 mm
Weight (with mounting plate)	≤93 kg
Operating Temperature Range	-25°C ~ 60°C
Cooling Method	Smart Air Cooling
Max. Operating Altitude	4,000 m (13,123 ft.)
Relative Humidity	0 ~ 100%
DC Connector	Amphenol Helios H4
AC Connector	Waterproof Connector + OT/DT Terminal
Protection Degree	IP66
Topology	Transformerless
Nighttime Power Consumption	< 3.5 W
Standard Compliance (more available upon request)	
Certificate	EN 62109-1/-2, IEC 62109-1/-2, EN 50530, IEC 62116, IEC 61727, IEC 60068, IEC 61683
Grid Connection Standards	VDE-AR-N4105, EN 50549-1, EN 50549-2, RD 661, RD 1699, C10/11

*1 The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter.
*2 Any DC input voltage beyond the operating voltage range may result in inverter improper operating.
*3 Single-string access.

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SUN2000- 50KTL -M3

Smart PV Controller

SUN2000-50KTL-M3

Technical Specification

Technical Specification	SUN2000-50KTL-M3
Efficiency	
Max. Efficiency	98.5%
European Efficiency	98.0%
Input	
Max. Input Voltage [1]	1,100 V
Max. Current per MPPT	30 A
Max. Current per Input	20 A
Max. Short Circuit Current per MPPT	40 A
Start Voltage	200 V
MPPT Operating Voltage Range [2]	200 V ~ 1,000 V
Rated Input Voltage	600 V
Number of Inputs	8
Number of MPP Trackers	4
Output	
Rated AC Active Power	50,000 W
Max. AC Apparent Power	55,000 VA
Max. AC Active Power (cosϕ=1)	55,000 W
Rated Output Voltage	400 Vac / 480 Vac, 3W+(N) + PE
Rated AC Grid Frequency	50 Hz / 60 Hz
Rated Output Current	72.2 A @ 400Vac, 60.1 A @ 480Vac
Max. Output Current	79.8 A @ 400Vac, 66.5 A @ 480Vac
Adjustable Power Factor Range	0.8 LG ... 0.8 LD
Max. Total Harmonic Distortion	<3%
Protection	
Input-side Disconnection Device	Yes
Anti-islanding Protection	Yes
AC Overcurrent Protection	Yes
DC Reverse-polarity Protection	Yes
PV-array String Fault Monitoring	Yes
DC Surge Arrester	Type II
AC Surge Arrester	Type II
DC Insulation Resistance Detection	Yes
Residual Current Monitoring Unit	Yes
Arc Fault Protection	Yes
Ripple Receiver Control	Yes
Integrated PID Recovery [3]	Yes
Communication	
Display	LED Indicators, Bluetooth + APP
RS485	Yes
Smart Dongle	WLAN/Ethernet via Smart Dongle-WLAN-FE (Optional) 4G / 3G / 2G via Smart Dongle-4G (Optional)
Monitoring BUS (MBUS)	Yes (Isolation Transformer required)
Optimizer Compatibility	
DC MBUS Compatible Optimizer	MERC-1100/1300W-P
General Data	
Dimensions (W x H x D)	640 x 530 x 270 mm (25.2 x 20.9 x 10.6 inch)
Weight (with mounting plate)	49 kg (108.1 lb)
Operating Temperature Range	-25°C ~ 60°C (-13°F ~ 140°F)
Cooling Method	Smart Air Cooling
Max. Operating Altitude	4,000 m (13,123 ft.)
Relative Humidity	0% RH ~ 100% RH
DC Connector	Amphenol HH4
AC Connector	Waterproof Connector + OT/DT Terminal
Protection Degree	IP 66
Topology	Transformerless
Nighttime Power Consumption	≤ 5.5W
Standard Compliance (more available upon request)	
Safety	EN 62109-1/-2, IEC 62109-1/-2, EN 50530, IEC 62116, IEC 60068, IEC 61683
Grid Connection Standards	IEC 61727, VDE-AR-N4105, VDE 0126-1-1, BDEW, G59/3, UTE C 15-712-1, CEI 0-16, CEI 0-21, RD 661, RD 1699, P.O. 12.3,RD 413, EN-50438-Turkey, EN-50438-Ireland, C10/11, MEA, Resolution No.7, NRS 097-2-1, DEWA

1. The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter.
2. Any DC input voltage beyond the operating voltage range may result in inverter improper operating.
3. SUN2000-30~50KTL-M3 raises potential between PV- and ground to above zero through integrated PID recovery function to recover module degradation from PID. Supported module types include: P-type (mono, poly), N-type (nPERT, HIT)
4. 50KTL Platform only supports C&I Optimizer(MERC-1100/1300W-P). The current version does not support this function and it can be upgraded to optimizer version via new inverter software version(Dec 30th, 2022) Refer to HTTP://solar.Huawei.com/

LUNA2000-97/129/161/200KWH
Smart String ESS

More Energy

Simple O&M

Safe & Reliable

Technical Specifications

MODEL	LUNA2000-200KWH-2H1	LUNA2000-161KWH-2H1	LUNA2000-129KWH-2H1	LUNA2000-97KWH-1H1
Battery Configuration	12S1P	10S1P	8S1P	6S1P
Max. capacity	193.5 kWh	161.3 kWh	129.0 kWh	96.8 kWh
Max. charging power	≤ 100 kW			
Max. discharging power	≤ 100 kW	≤ 100 kW	≤ 100 kW	≤ 92 kW
Dimensions (W x H x D)	1810 mm x 2135 mm x 1200 mm			
Dimensions (W x H x D, including smart rack controller and smart PCS)	2570 mm x 2135 mm x 1200 mm			
Weight (with battery packs)	≤ 2950 kg	≤ 2690 kg	≤ 2430 kg	≤ 2170 kg
Weight (without battery packs)	≤ 1070 kg	≤ 1070 kg	≤ 1090 kg	≤ 1130 kg
Operating temperature range	–30°C to +55°C			
Storage temperature range	–40°C to +60°C			
Operating humidity range	0–100% (Non-Condensing)			
Max. operating altitude	4000 m			
Installation environment	Outdoor Installation			
Temperature control mode	Industrial-grade air Conditioner			
Fire suppression	Supported			
Auxiliary power supply	220 V AC, ≤ 4.2 kW			
Communication port	Ethernet / SFP			
Communication protocol	Modbus TCP			
IP rating	IP55			
EMC rating	Class A			
DC Lightning Protection	**Type II**			

Standards

Environment	RoHS
Certification Standards	GB/T 36276-2018; GB/T 33582; UL 9540A; UN 38.3; ISO 9227:2017; IEC 60529; IEC/EN 62477-1; IEC/EN 62040-1; IEC/EN 61000-6-2; IEC/EN 61000-6-4; EN 55011

Battery Pack & Smart Rack Controller
Smart String ESS

Battery Pack	
General	
Cell Material	LFP
Nominal Capacity	16.13kWh
Supported Charge & Discharge Rate	≤ 0.5 C
Weight	≤ 140 kg
Dimensions (W x H x D)	442 x 308 x 660 mm

Smart Rack Controller	
Efficiency	
Max. Efficiency	≥ 98.5.0%
Battery Side	
Rated Voltage	691.2@280Ah
Operating Voltage Range	40 V ~ 1,050 V
Min. Start Voltage	350 V
Bus Side	
Max. DC Voltage	1,100 V
Rated Voltage	665 V
Rated Current	76.3 A
General	
Dimensions (W x H x D)	600 x 820 x 270 mm
Weight	≤ 90 kg
Cooling Method	Smart Air Cooling
Protection Degree	IP66

HUAWEI

MERC-1100/1300W-P

PV Optimizer

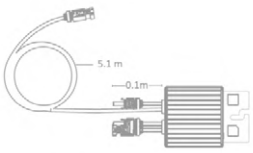
MERC-1100/1300W-P

Technical Specification

Technical Specification	MERC-1100W-P	MERC-1300W-P
Input		
Rated input DC power [1]	1100 W	1300 W
Absolute max. input voltage	125 V	
MPPT operating voltage range	12.5 ~ 105 V	
Max. short-circuit current (Isc)	20 A	
Max. efficiency	99.5%	
Weighted efficiency	99.0%	
Overvoltage category	II	
Output		
Max. output voltage	80 V	
Max. output current	22 A	
Output bypass [2]	Yes	
Safety output voltage [3]	1 V	
Standards Compliance		
Safety	IEC62109-1 (class II safety)	
RoHS	Yes	
General Specification		
Dimension (W X H X D)	149 mm x 104 mm x 48.8 mm (5.9 in. x 4.1 in. x 1.9 in.)	
Weight (including wires)	1.0 kg (2.2 lb.)	
Installation part (optional)	PV Module Frame Plate/T-shaped Bolt [4]	
Input connector	Staubli MC4	
Input wire length	0.1 m (+/-) (short-input-cable version) [5]	
Output connector	Staubli MC4	
Output wire length	0.1 m (+), 5.1 m (-) (short-input-cable version) [5]	
Operating temperature	-40°C to +85°C [6]	
Relative humidity	0% ~ 100%	
IP rating	IP68	
Compatible inverters	SUN2000-8/10/12/15/17/20KTL-M2, SUN2000-30/36/40KTL-M3, SUN2000-12/15/17/20/25KTL-M5, SUN2000-50KTL-M3	

PV System Design [7/8/9]	SUN2000-8~20KTL-M2	SUN2000-12~25KTL-M5	SUN2000-30~40KTL-M3	SUN2000-50KTL-M3
Minimum String Length (Power Optimizers)	8	8	8	8
Maximum String Length (Power Optimizers)	25	25	25	20
Maximum DC Power per String	20,000 W	20,000 W	20,000 W	20,000 W

Short-input-cable Version



*1 The maximum power of PV module at STC shall NOT exceed the "Rated Input DC Power" of MERC-1100/1300W-P. PV Modules with up to +5% power tolerance are allowed.
*2 Any power optimizer, which is connected to an operating inverter in a PV string, will be bypassed when it fails.
*3 When the MERC-1100/1300W-P is disconnected from inverter or when the inverter is off, its output voltage will become 1 V.
*4 It is for PV module frame/extruded aluminum profile racking system installation.
*5 Pay attention to the PV module wire length. To match PV modules with a split junction box and short output wire, the long-input-cable version (input wire: 1.3 m (+/-); output wire: 0.1m (+)/2.9m (-)) of MERC-1100/1300W-P is available upon request.
*6 When the operating temperature of the MERC-1100/1300W-P reaches 70 °C to 85 °C, it may shut down due to over-temperature protection and report an over-temperature alarm. After the temperature decreases, it can automatically resume working without causing any damage.
*7 Each PV module under the same inverter must be equipped with a MERC-1100/1300W-P.
*8 SUN2000-450W-P2/600W-P and MERC-1100/1300W-P can NOT be used in mixture under the same Smart Energy/PV Controller.
*9 It is recommended that strings under the same inverter have an equal capacity. If this is not feasible, the capacity difference between strings under the same inverter must not exceed 2 kW. Otherwise, the energy yield will be reduced.

Disclaimer: the preceding values are measured by an internal laboratory of Huawei in a specific environment. The actual values may vary with products, software versions, usage conditions, and environmental factors.

Deye

Choose a green and healthy life

SUN-8/12K-SG04LP3-EU

Technical Data

Model	SUN-8K -SG04LP3-EU	SUN-12K -SG04LP3-EU
Battery Input Data		
Battery Type	Lead-acid or Li-Ion	
Battery Voltage Range (V)	40~60	
Max. Charging Current (A)	190	240
Max. Discharging Current (A)	190	240
External Temperature Sensor	Yes	
Charging Curve	3 Stages / Equalization	
Charging Strategy for Li-Ion Battery	Self-adaption to BMS	
Max. DC Input Power (W)	10400	15600
Rated PV Input Voltage (V)	550 (160~800)	
Start-up Voltage (V)	160	
MPPT Voltage Range (V)	200-650	
Full Load DC Voltage Range (V)	350-650	
PV Input Current (A)	13+13	26+13
Max. PV I_{SC} (A)	17+17	34+17
No.of MPP Trackers	2	
No.of Strings per MPP Tracker	1	2+1
Rated AC Output and UPS Power (W)	8000	12000
Max. AC Output Power (W)	8800	13200
AC Output Rated Current (A)	12.1/11.6	18.2/17.4
Max. AC Current (A)	18.2/17.4	27.3/26.1
Max. Continuous AC Passthrough (A)	45	
Peak Power (off grid)	2 time of rated power, 10 S	
Power Factor	0.8 leading to 0.8 lagging	
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac	
Grid Type	Three Phase	
DC injection current (mA)	THD<3% (Linear load<1.5%)	
Max. Efficiency	97.60%	
Euro Efficiency	97.00%	
MPPT Efficiency	99.90%	
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge protection	
Output Over Voltage Protection	DC Type II/AC Type III	
Grid Regulation	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11	
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	
Operating Temperature Range (℃)	-40~60℃, >45℃ derating	
Cooling	Smart cooling	
Noise (dB)	<45 dB	
Communication with BMS	RS485; CAN	
Weight (kg)	33.6	
Size (mm)	422W x 699.3H x279D	
Protection Degree	IP65	
Installation Style	Wall-mounted	
Warranty	5 years	

SUN-50K-SG01HP3-EU-BM4

Technical Data

Model	SUN-50K-SG01HP3-EU-BM4
Battery Input Data	
Battery Type	Li-Ion
Battery Voltage Range (V)	160~800
Max. Charging Current (A)	50+50
Max. Discharging Current (A)	50+50
Number of battery input	2
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
PV String Input Data	
Max. DC Input Power (W)	65000
Max. DC Input Voltage (V)	1000
Start-up Voltage (V)	180
MPPT Range (V)	150-850
Full Load DC Voltage Range (V)	450-850
Rated DC Input Voltage (V)	600
PV Input Current (A)	36+36+36+36
Max. PV I_{SC} (A)	55+55+55+55
No.of MPP Trackers	4
No.of Strings per MPP Tracker	2
AC Output Data	
Rated AC Output and UPS Power (W)	50000
Max. AC Output Power (W)	55000
AC Output Rated Current (A)	75.8/72.5
Max. AC Current (A)	83.3
Max. Continuous AC Passthrough (A)	150
Peak Power (off grid)	1.5 time of rated power, 10 S
Generator input/Smart load /AC couple current (A)	75.8 / 150 / 75.8
Power Factor	0.8 leading to 0.8 lagging
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac
Grid Type	Three Phase
DC injection current (mA)	<0.5%1n
Efficiency	
Max. Efficiency	97.60%
Euro Efficiency	97.00%
MPPT Efficiency	99.90%
Protection	
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge protection
Output Over Voltage Protection	DC Type II/AC Type III
Certifications and Standards	
Grid Regulation	EN50549, AS4777.2:2015, VDE0126-1-1, IEC61727, VDEN4105-2018, G99
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2
General Data	
Operating Temperature Range (℃)	-40~60℃, >45℃ derating
Cooling	Smart cooling
Noise (dB)	<45 dB
Communication with BMS	RS485; CAN
Weight (kg)	75
Size (mm)	527W×894H×294D
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 years

SE-G5.1Pro-B
Low Voltage Battery

Model		SE-G5.1 Pro-B
Main Parameter		
Battery Chemistry		LiFePO4
Built-in Circuit Breaker		125A 2P, 60Vdc
Capacity(Ah)		100
Scalability		Max. 64 pcs pack in parallel (Max. 32 pcs no external setup)
Nominal Voltage (V)		51.2
Operating Voltage(V)		43.2~57.6
Nominal Energy (kWh)		5.12
Usable Energy(kWh)[1]		4.6
Charge/Discharge Current (A)[2]	Recommend	50
	Max	100
	Peak	150 (2mins, 25°C)
Other Parameter		
Recommend Depth of Discharge		90%
Dimension (W/H/D, mm)		440*133*540
Weight Approximate (kg)		45
Master LED Indicator		5LED(SOC:20%~SOC100%), 3LED (working, alarming, protecting)
IP Rating of Enclosure		IP20
Operating Temperature		Charge:0~55°C (Optional heating) / Discharge: -20°C~55°C
Storage Temperature		0°C~35°C
Humidity		5%~95%
Altitude		≤2000m
Cycle Life		≥6000(25°C±2°C , 0.5C/0.5C, 90%DOD, 70%EOL)
Installation		Wall-Mounted, Floor-Mounted,Rack-Mounted (19-inch standard cabinet, cabinet depth≥600mm)
Communication Port		CAN2.0, RS485
Warranty Period[3]		10 years
Energy Throughput		16MWh@70%EOL
Certification		UN38.3, IEC62619, CE,UK, VDE2510-50, CEI 0-21, FCC, UL1973, UL9540A

BOS-G
High Voltage Battery

Model		BOS-G		
Main Parameter				
Cell Chemistry		LiFePO4		
Module Energy (kWh)		5.12		
Module Nominal Voltage (V)		51.2		
Module Capacity (Ah)		100		
Battery Module Qty In Series (Optional)		3（Min）	8	12（Max）
System Nominal Voltage (V)		153.6	409.6	614.4
System Operating Voltage (V)		124.8~175.2	332.8~467.2	499.2~700
System Energy (kWh)		15.36	40.96	61.44
System Usable Energy (kWh) [1]		13.8	36.86	55.29
Charge/Discharge [2] Current (A)	Recommend	50		
	Nominal	100		
	Peak Discharge (2 mins, 25℃)	125		
Working Temperature (°C)		Charge: 0~55/Discharge: -20~55		
Status Indicator		Yellow: Battery High Voltage Power On Red: Battery System Alarm		
Communication Port		CAN2.0/ RS485		
Humidity		5%~85%RH		
Altitude		≤2000m		
IP Rating of Enclosure		IP20		
Dimension (W/D/H,mm)		589*590*1640		589*590*2240
Weight Approximate (kg)		258	434	628
Installation Location		Rack Mounting		
Storage Temperature (°C)		0~35		
Recommend Depth of Discharge		90%		
Cycle Life		25±2°C,0.5C/0.5C, EOL70%≥6000		
Warranty [3]		10 years		
Certification		CE/IEC62619 /VDE2510-50/ UL1973 /UL9540A/UN38.3		

3U-HRACK

- Standard 19inch rack
- Can install 12 pcs batteries
- 1 pc High Voltage Battery cluster control box
- Dimension (W/D/H) 589*590*2240mm
- Weight Approximate 85kg

SPF 3500ES

- Hybrid
- Integrated MPPT charge controller.
- Equalization charging function.
- Work with or without battery
- Configurable grid or solar input priority.
- Optional WIFI/GPRS remote monitoring
- Support parallel operation for capacity expansion up to 30kW (6 units maximum).
- PV and grid power the load jointly if PV energy is insufficient.
- Flexibly schedule the Inverter charging and discharging time.
- PV input voltage up to 450VDC.
- Battery type: Lithium/Lead Acid
- Rated Power: 3500VA
- Maximum Solar Charge Current: 80A
- Maximum PV Array Power 4500W
- Inverter Output 3.5KW
- 48V Battery voltage
- 2 Years Warranty

SPF 5000ES

- Hybrid
- Integrated MPPT charge controller.
- Equalization charging function.
- Work with or without battery.
- Configurable grid or solar input priority.
- With WIF/GPRS remote monitoring
- Support parallel operation for capacity expansion up to 30kW (6 units maximum).
- PV and grid power the load jointly if PV energy is insufficient.
- Flexibly schedule the Inverter charging and discharging time.
- Maximum PV Array Power 6000W
- PV input voltage up to 450VDC.
- Battery type: Lithium/Lead Acid
- Rated Power: 5000VA
- Maximum Solar Charge Current: 100A
- Inverter Output 5KW
- 48V Battery voltage
- 2 Years Warranty

SPF 6000ES

- HYBRID
- 6KW
- 2 MPPT
- Work with or without Battery
- Configurable grid or solar input priority
- WIFI Dongle Included for Monitoring
- Parallel Up to 6 Units
- Two AC input terminals with integrated transfer switch
- Maximum PV Array Powe 8000W
- Maximum PV input voltage up to 500VDC
- 2 Years Warranty

SPH 3600TL-BL-UP

- Hybrid
- Single Phase
- 2MPPT
- Smart Load Management
- UPS Function < 10MS Transition
- 2.0 DC/AC Ratio
- Max Recommended PV Power 6000W
- Inverter Output 3.6KW
- 10 Pcs Parallel (Grid Tied)
- 5 Years Warranty

SPH 5000TL-BL-UP

- Hybrid
- Single Phase
- 2MPPT
- Smart Load Management
- UPS Function < 10MS Transition
- 2.0 DC/AC Ratio
- Max Recommended PV Power 9500W
- Inverter Output 5KW
- 10 Pcs Parallel (Grid Tied)
- 5 Years Warranty

SPH 8000TL3-BH-UP

- Hybrid
- Three Phase
- 2MPPT
- Smart Load Management
- UPS Function < 10MS Transition
- 1.5 DC/AC Ratio
- Max Recommended PV Power 12000W
- Inverter Output 8KW
- 10 Pcs Parallel (Grid Tied)
- 5 Years Warranty

SPH 10000TL3-BHUP

- Hybrid
- Three Phase
- 2MPPT
- Smart Load Management
- UPS Function < 10MS Transition
- 1.5 DC/AC Ratio
- Max Recommended PV Power 15000W
- Inverter Output 10KW
- 10 Pcs Parallel (Grid Tied)
- 5 Years Warranty

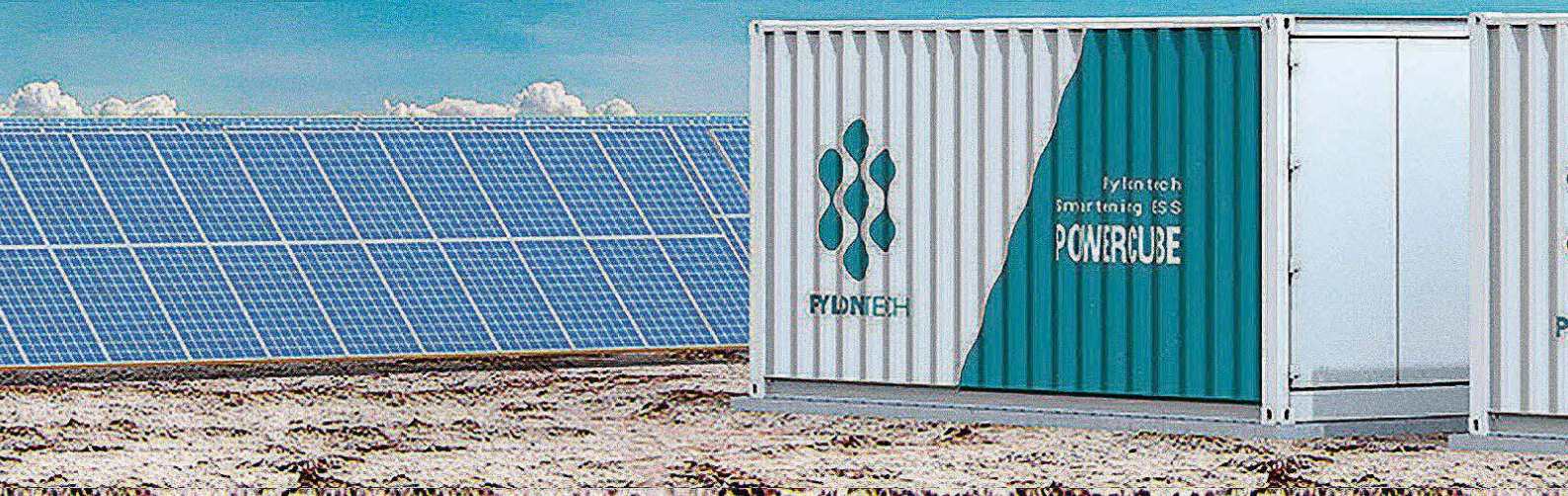
HOPE 5.5L-A1

- 51.2V Nominal Voltage
- 5.5kWh Rated Capacity
- 5.12kWh Usable Capacity
- 40 ~ 58.4V Operating Voltage
- 100A Max Discharging Current
- 950A/150us Peak Discharging Current
- 100A Max Charging Current
- 440/540/130.5mm (W/D/H)
- 45±1Kg Weight
- IP20 IP Protection
- 93% DOD
- >6000 (25°C, 0.2C,) Cycle Life
- Max. 12packs Parallel Connection
- CAN/RS485 Communication Port
- 5 Years Warranty

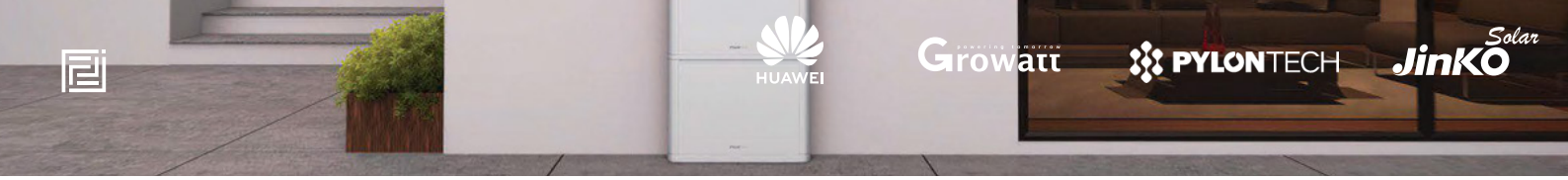
HUAWEI Growatt PYLONTECH JinKO Solar

PYLONTECH

Liberating Your Energy Sustainability



WITH 5 YEARS PRODUCT WARRANTY



Model	UF5000

Pylontech UF5000
51.2kWh Lithium Ion Battery
PYLONBATUF5000

Basic Parameters

Nominal Voltage	51.2Vdc
Nominal Capacity (KWh)	5120Wh
Usable Capacity (KWh)	4864Wh
Dimension (mm)	442x452.6x161
Weight (Kg)	42
Charge/Discharge Current (A) (Recommended)	100
Charge/Discharge Current (A) (Max Continuous)	100
Charge/Discharge Current (A) (Peak 1)	105-119@15min
Charge/Discharge Current (A) (Peak 2)	120-200@15sec
Communication Port	
Single String Quantity (Pcs)	16
Working Temperature (C) (Charge)	
Working Temperature (Discharge) (Charge)	
Shelf Temperature (C)	
Short Current/Duration Time	<2000A/1ms
IP Rating	
Cooling Type	
Humidity	
Altitude (M)	
Design Life	
Cycle Life	>6000 25°C
Certification	IEC62619/UL1973 /UL9540A/CE /UN38.3

With Bracket

https://www.fouani.com/ng

During normal operation of the equipment, the average noise level complies with the the standard within the discrepancy range.

The above results are lab test results. Due to many uncertain factors in practice, the actual results may be different from the forecast information. Therefore, the information in this document is for reference only and does not constitute any offer or commitment.

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