



Website



LinkedIn



For Your Dream of Green Energy



YINERGY DIGITAL POWER TECHNOLOGY CO., LTD.
www.yinergy-solar.com info@yinergy-solar.com

Yinergy Digital Power

Focused on Distributed Digital Energy Products and Solutions

YINERGY BRAND CULTURE

For Your Dream of Green Energy

Focused on Distributed Digital Energy
Products and Solutions



About Yinergy

Yinergy is a leading innovative digital energy technology company, focusing on distributed digital energy products and solutions. In July 2024, it secured an A round financing led by Puhua Capital.

Yinergy integrates electronic power and digital technology, relies on world-class quality control system, strong supply chain and perfect after-sales service capabilities, adheres to the vision and mission for a green energy future, continuously expands the boundaries of innovation, creates value for customers, and promotes Energy revolution.



2022

Found



300+

Employees



20+

National
Certifications



20+

Countries



2

Manufacture
Bases



2

R&D
Bases

BRAND CULTURE

Brand Positioning

Focused on Distributed Digital Energy Products and Solutions.

Brand Mission

For Your Dream Of Green Energy.

Brand Vision

Committed to Becoming a Leading Digital Clean Power System Solution Provider.

Value

Customer-Centric.





The English brand name **"Yinergy"** evolves from the word **"ENERGY,"** connecting well with the brand's industry focus.

Y

stands for **'YOUNG,'** representing the brand's youthful spirit and vitality.

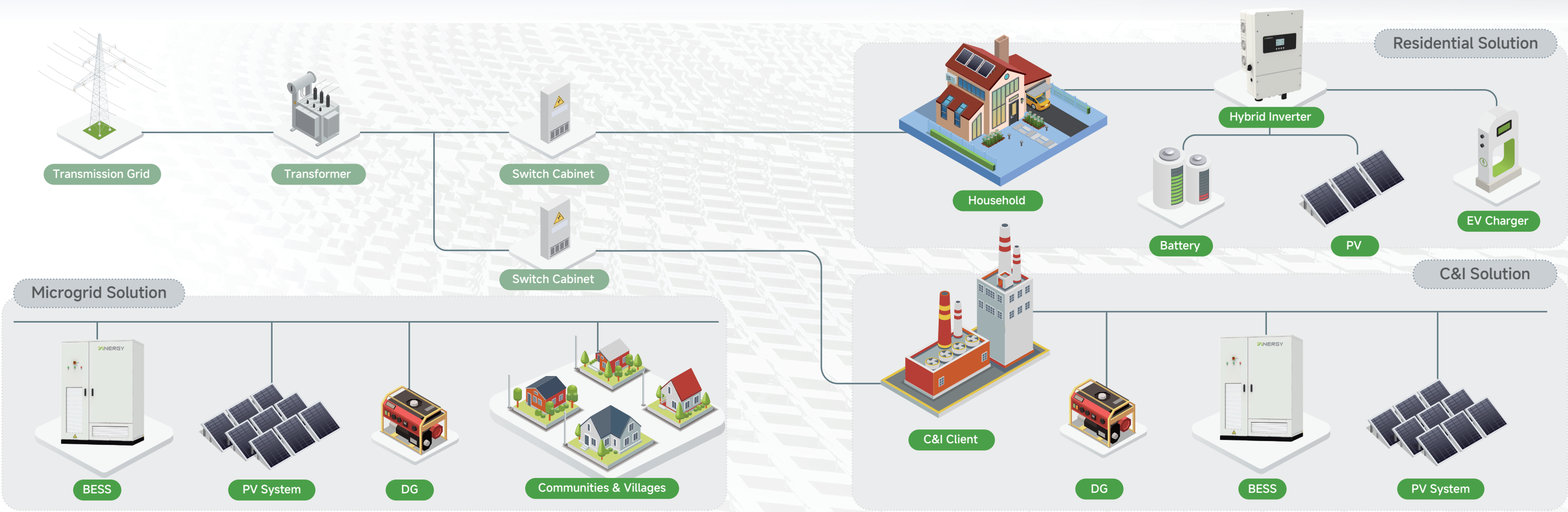
I

stands for **'INNOVATE,'** reflecting the company's spirit of staying young and innovative.

N

stands for **'NEW,'** symbolizing a commitment to innovation and change, aligned with the company's emphasis on independent R&D and pursuing new opportunities.

FOCUSED ON DISTRIBUTED DIGITAL ENERGY PRODUCTS AND SOLUTIONS



RESIDENTIAL PRODUCT

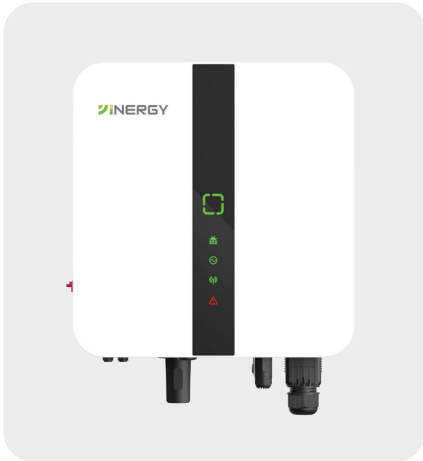
C&I PRODUCT



OG SERIES Off Grid Solar Inverter
1.2kW / 3.6kW / 5kW / 6.5kW



ESS SERIES ESS-2000
1000W / 2000Wh



HI SERIES Hybrid Inverter
Single phase 3kW / 3.6kW/ 4kW / 4.6kW / 5kW / 6kW
Three phase 5kW / 6kW / 8kW / 10kW / 12kW



SI SERIES String Inverter
Three phase 30kW / 36kW/ 40kW / 50kW / 60kW



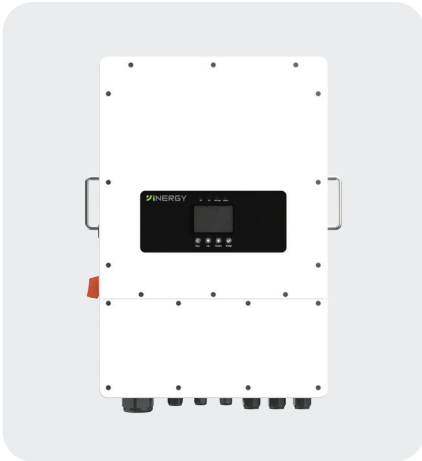
SI SERIES String Inverter
Three phase 30kW / 36kW/ 40kW / 50kW / 60kW



SI SERIES String Inverter
Three phase 70kW / 75kW/ 80kW / 90kW
100kW / 110kW



HI SERIES Hybrid Inverter
Single phase 3kW / 5kW/ 6kW / 8kW / 10kW / 12kW



HI SERIES Hybrid Inverter
Three phase 5kW / 6kW/ 8kW / 10kW / 12kW / 15kW



SI SERIES PV String Inverter
Single phase 3kW / 3.6kW/ 4kW / 5kW / 6kW
7kW / 8kW/ 9kW / 10kW



AIO SERIES Hybrid BESS
PV 100kW / 150kW / 200kW
BESS 125kW / 261kWh



PCS SERIES Power Conversion System
500kW / 625kW



PCS SERIES Power Conversion System
1725kW



SI SERIES PV String Inverter
Three phase 5kW / 6kW/ 8kW / 10kW
15kW / 20kW/ 25kW



DCES SERIES
Liquid Cooling Energy Storage System
522kWh



DCES SERIES
Liquid Cooling Energy Storage System
3.344MWh / 5.015MWh

YINERGY PRODUCT

RESIDENTIAL



OG SERIES



High Compatibility

33% more surge power has better protection function for special application scenarios such as refrigerator, air conditioner and water pump.

20~450VDC, Wider range, More power generation.
Start earlier, stop later.



High Reliability

Enhanced safety with Built-in Transformer Isolation, provides added protection for users.

Built-in Powerful Optimizer effectively drives heavy home loads, ensuring reliable performance for demanding appliances.
(Support 300% Surge power)(Max Value)



More Convenient

28A I_{max}PV current better for 210 panels.

160A Maximum charging Current, faster charging.



Cost-effective

38% increased rated power for PV, providing additional energy for battery charging while 100% full-load capacity.

PV efficiency up to 96.5%, ensures maximum energy conversion and enhances overall system performance.

Off Grid Solar Inverter

Dual Output | Grid Feeding(optional)

1.2kW

3.6kW

5kW

6.5kW



Model	OG-1P1K2-T	OG-1P3K6-DT	OG-1P5K-DT-24	OG-1P5K-PDT	OG-1P6K5-DT
Rated Capacity	1500 VA / 1200 W	4500 VA / 3600 W	6250 VA / 5000 W	6250 VA / 5000 W	8120 VA / 6500 W
	PV Input				
PV Maximum Input Power	1200 W	6500 W	9000 W	6500 W	9000 W
Max. PV Open Circuit Voltage	125 VDC	500 VDC	500 VDC	500 VDC	500 VDC
MPPT Range Operating Voltage	20 ~ 100 VDC	40 ~ 450 VDC	40 ~ 450 VDC	120 ~ 450 VDC	60 ~ 450 VDC
Max. Solar Input Current	14 A	18 A	27 A	18 A	28 A
	Battery Specifications				
Battery Type	Lithium / Lead Acid / AGM / Gel				
Nominal Battery voltage	12 V (1*12 V)	24 V (2*12 V)	24 V (2*12 V)	48 V (4*12 V)	
	AC Input				
Nominal voltage	208 / 220 / 230 / 240; L + N + PE				
Voltage Range	170 ~ 280 ±3 (UPS mode); 90 ~ 280 ±3 (Appliance mode)				
Frequency	50 / 60 Hz (Auto Adaptive)				
	Load Output Port Data				
Rated Capacity	1500 VA / 1200 W	4500 VA / 3600 W	6250 VA / 5000 W	6250 VA / 5000 W	8120 VA / 6500 W
Second Output Capacity	1380 VA / 1200 W	2300 VA / 2300 W	4150 VA / 4150 W	4150 VA / 4150 W	4150 VA / 4150 W
Surge Power	4000 VA	12000 VA	15000 VA	15000 VA	16000 VA
Parallel	/	/	/	9 Unit (1P & 3P)	/
Waveform	Pure Sine Wave				
Load Output Nominal Voltage	208 / 220 / 230 / 240 VAC				
Load Output Voltage Range	195 ~ 253 VAC				
Load Output Nominal Frequency	50 / 60 Hz				
Load Output Frequency Range	49 ~ 51 Hz ±0.1% / 59 ~ 61 Hz ±0.1%				
Transfer Time	10 ms UPS mode <15 ms Appliance mode				
Peak Efficiency (PV to INV)	80.00%	95.00%	96.00%	/	96.50%
Peak Efficiency (Battery to INV)	92.50%	93.00%	93.00%	/	93.50%
Overload Protection	10min@102%< Load ≤120% 1min@120%< Load ≤150% 10s@150%< Load ≤200% 200ms@Load >200%	1min@102%< Load ≤110% 10s@110%< Load ≤130% 3s@130%< Load ≤150% 200ms@Load >150%	1min@102%< Load ≤110% 10s@110%< Load ≤130% 3s@130%< Load ≤150% 200ms@Load >150%	1min@102%< Load ≤120% 10s@110%<Load ≤130% 3s@130%<Load ≤150% 200ms@Load>150%	10min@102%< Load ≤120% 1min@120%< Load ≤150% 10s@150%< Load ≤200% 5s@Load >200%
Admissible Power Factor	-0.8~+0.8				
	Charger Specifications (Solar Charger & AC Charger)				
Charging Voltage	FV MODE: 13.5 V settable:12 ~14.9 V CV MODE: 14.1 V settable:12~15 V	FV MODE: 27 V settable: 26.6~27.8 V CV MODE: 28.2 V settable: 28~29 V	FV MODE: 27 V settable: 26.6~27.8 V CV MODE: 28.2 V settable: 28~29 V	FV MODE: 54 V Settable: 53.2~55.6 V CV MODE: 56.4 V Settable: 56~58 V	
Battery Over Voltage	15 V	30.5 V	30.5 V	61V	
Charging Current	2 ~ 60 A	2 ~ 100 A	2 ~ 160 A	2 ~ 80 A	2 ~ 120 A
Max.AC Charge Current	60 A	100 A	160 A	80 A	60 A
Max PV Charge Current	60 A	100 A	160 A	80 A	120 A
Max. Charge Current (PV+AC)	120 A	100 A	160 A	80 A	120 A
	Physical				
Built-in Transfer	Yes	Yes	Yes	Yes	Yes
Built-in Power Booster	Yes	Yes	Yes	Yes	Yes
Dimensions, D × W × H (mm)	91 × 236 × 347 mm	122 × 283 × 439.4 mm	110 × 326 × 394 mm	129 × 338 × 529.6 mm	129 × 338 × 529.6 mm
Net Weight (Kg)	4.5 kg	8.2 kg	10 kg	12 kg	12 kg
Communication Interface	RS485 / RS232	RS485 / RS232 / USB / Dry Contact			
	Standard Compliance				
Safety Regulation	EN 62109-1:2010, EN 62109-2:2011, IEC 61683:1999				
	Environment				
Ingress Protection	IP21				
Operating Temperature Range	-10 °C ~ 50 °C				
Storage Temperature	-15 °C ~ 60 °C				
Humidity	5% ~ 95% (Non-condensing)				



ESS SERIES



Safety

Using aluminum alloy casing for prevention of fire, explosion and crash.

A comprehensive 3-tier 16-dimensional safety protection system is implemented.



Performance

Equipped with large capacity battery cell of 314 Ah, cycle life > 4000 times.

BMS and PCS intergrated to enhance product reliability.

Supporting all-in-one charging for utility / photovoltaic / vehicle.^①



Application

Supporting PAYGO to realize flexible payment method.^②

Supporting UPS to meet more application scenarios.

Plug and play,easy to operate.

All-in-one ESS

ESS-2000



Model	ESS-2000
Rated Capacity	1000 W / 2000 Wh
PV Input	
PV Maximum Input Power	550 W
Max. PV Array Open Circuit Voltage	55 VDC
MPPT Range@Operating Voltage	12 ~ 55 VDC
Max. Solar Input Current	15 A
Battery Specifications	
Nominal Voltage	6.4 V
Cell Type	Lithium-LFP
Nominal Energy	2009 Wh
Cycle Life	10000 Cycles
AC Input	
Nominal voltage	208 / 220 / 230 / 240; L + N + PE
Voltage Range	90 ~ 280 ± 3 (Appliance mode)
Frequency	50 / 60 Hz (Auto Adaptive)
AC Output	
Rated Capacity	1000 W
Surge Power	± 2000 VA
Waveform	Pure Sine Wave
Nominal Frequency	50 / 60 Hz
Feed-in Grid Frequency Range	49 ~ 51 Hz ± 0.1% / 59 ~ 61 ± 0.1%
Overload Protection	> 1000 W
Charger Specifications (Solar Charger & AC Charger)	
Battery Over Voltage	7.3 V
Charging Current	1 ~ 160 A
Max. AC Charge Current	160 A
Max PV Charge Current	100 A
Max. Charge Current (PV+AC)	160 A
Physical	
Built-in Transfer	Yes
Built-in Power Booster	Yes
Dimensions, (DxWxH)	160 × 400 × 250 mm
Net Weight	18.7 kg
Communication Interface	RS232
Standard Compliance	
Safety Regulation	EN 62109-1 ,EN 62109-2, EN IEC 62040-1, UN38.3
Environment	
Ingress Protection	IP21
Operating Temperature Range	-10 °C ~ 50 °C
Storage Temperature	-15 °C ~ 60 °C
Humidity	5% ~ 95% (Non-condensing)

① Support professional cigarette lighter connection.(optional)

② Africa and restricted areas

YINERGY PRODUCT

RESIDENTIAL



HI SERIES



High-Efficiency

Max charging / discharging current of 135A.

200% PV oversized and up to 110% AC output.

Empowered by SiC.

Compatible with mainstream batteries.



Economic

>20% power equipped with optimize.

90V low start-up voltage brings longer operation time.

Support quick installation



Safety

AI powered AFCI protection(Optional).

<10ms UPS-level switching time.

24-hour WiFi monitoring.



Intelligent

Multiple battery brands & Lead-acid battery compatible.

Intelligent loads management (e.g. Heat pump, EV Charger).

Hybrid Inverter

Single Phase | 2MPPTs

3kW	3.68kW	4kW	4.6kW	5kW	6kW
-----	--------	-----	-------	-----	-----



Model
Max. Input Power
Max. Input Voltage
Rated Input Voltage
Start-up Input Voltage
MPPT Operating Voltage Range
Max. Input Current
Max. Short-circuit Current
No. of MPP Trackers
No. of Strings per MPP Tracker

Battery Type
Battery Voltage Range
Max. Charge / Discharge Current
Rated Power
Communication Interface
Compatible Li-ion Battery Brand
Rated Output Power
Max. Output Apparent Power
Max. Input Apparent Power
Rated Grid Voltage
Rated Grid Frequency
Max. Output Current
Max. Input Current
Power Factor
Total Harmonic Distortion, THDi

Rated Output Power
Peak Output Apparent Power, 10s
Switch Time
Rated Grid Voltage
Rated Grid Frequency
Max. Output Current
Total Harmonic Distortion, THDv

Max. Efficiency
Euro Weighted Efficiency
Max. Battery Discharge Efficiencyv

Grid Regulation
Safety Regulation
EMC

Dimensions (W × H × D)
Weight
Installation
Operation Temperature
Operation Humidity
Protection Degree
Max. Operating Altitude
Cooling Method
Noise Emission
Topology
Display
Signal Input and Output
StandBy Consumption

HI-1P3K-L-Y1	HI-1P3.68K-L-Y1	HI-1P4K-L-Y1	HI-1P4.6K-L-Y1	HI-1P5K-L-Y1	HI-1P6K-L-Y1
PV Input					
4500 W	5500 W	6000 W	7000 W	7500 W	9000 W
550 V					
360 V					
90 V / 90 V					
90 V - 520 V					
20 A	20 A + 20 A				
27 A	27 A + 27 A				
1	2	2	2	2	2
1					

Battery					
Li-ion / Lead-acid					
40-60 V					
75 A	75 A	100 A	100 A	125 A	135 A
3000 W	3680 W	4000 W	4600 W	5000 W	6000 W
CAN, RS485					
Sunwoda, Pylontech, ACSUHO, CESC					

AC Input and Output (On Grid)					
3000 W	3680 W	4000 W	4600 W	5000 W	6000 W
3300 VA	4048 VA	4400 VA	5060 VA①	5500 VA	6600 VA
6000 VA	7300 VA	8000 VA	9200 VA	10000 VA	10000 VA
L/N/PE, 220/230/240 V					
50 Hz / 60 Hz					
15 A	18.4 A ②	20 A	23 A	25 A	30 A
27.3 A	33.2 A	36.4 A	41.8 A	45.5 A	45.5 A
~1(Adjustable from 0.8 leading to 0.8 lagging)					
<3%					

Backup Output (Off Grid)					
3000 W	3680 W	4000 W	4600 W	5000 W	6000 W
6000 VA	7300 VA	8000 VA	9200 VA	10000 VA	10000 VA
<10 ms					
L/N/PE, 220/230/240 V					
50 Hz / 60 Hz					
13 A	16 A	17.4 A	20 A	21.7 A	26.1 A
< 3% (Linear load)					

Efficiency					
98%					
97.1%					
94.7%					

Standard Compliance					
G98/G99, EN50549-10, AS/NZS 4777.2:2020+AMD 1:2021+AMD 2:2024					
IEC/EN 62109-1, IEC/EN 62109-2					
IEC/EN 61000-6-1, IEC/EN 61000-6-3					

General Data					
461 × 482 × 208 mm					
27 kg					
Wall-mounted					
-25 °C~ +60 °C (>45 °C derating)					
0 ~ 95% (Non-condensing)					
IP66					
4000 m (> 2000 m derating)					
Natural Convection					
<40 dB					
Transformerless & High frequency isolation for battery					
LED indicators; Integrated Wi-Fi/4G+APP					
DRM, 1 × DI, 3 × DO					
< 5 W					

YINERGY PRODUCT

RESIDENTIAL



HI SERIES



High Compatibility

- 100% Three-phase unbalanced output.
- 200% PV oversized and up to 110% AC overload output.
- Compatible with more than 8 battery brands.



High Reliability

- AI powered AFCI protection(Optional).
- <10ms UPS-level switching time.



More Convenient

- Quick-connect terminals reduce 40% installation time.
- Fast connected to EV charge and Generators.
- Up to 10 Units in parallel for expansion.



Cost-effective

- More than 1800kWh generates per panel in its whole life cycle.
- >20% power generates by equipping with optimizers.

Hybrid Inverter

Three Phase | 2MPPTs

- 5kW
- 6kW
- 8kW
- 10kW
- 12kW



Model	HI-3P5K-H-Y1	HI-3P6K-H-Y1	HI-3P8K-H-Y1	HI-3P10K-H-Y1	HI-3P12K-H-Y1
	PV Input				
Max. PV Array Power	10000 W	12000 W	16000 W	20000 W	24000 W
Max. Input Power	7500 W	9000 W	12000 W	15000 W	18000 W
Max. Input Voltage	1000 V				
Rated Input Voltage	650 V				
Auxiliary power Start-up voltage	110 V				
MPPT Operating Voltage Range	180 V ~ 950 V				
Max. Input Current per MPPT	16 A	16 A	16 A	16 A + 28 A	16 A + 28 A
Max. Short-circuit Current per MPPT	20 A	20 A	20 A	20 A + 35 A	20 A + 35 A
No. of MPP Trackers	2				
No. of Strings per MPP Tracker	1	1	1	1 / 2	1 / 2
	Battery Data				
Battery Type	Li-ion /Lead-acid				
Battery Voltage Range	170 V~600 V				
Max. Charge / Discharge Current	20 A + 20 A	20 A + 20 A	30 A + 30 A	30 A + 30 A	30 A + 30 A
Rated Power	5000 W	6000 W	8000 W	10000 W	10000 W
Communication Interface	CAN, RS485				
Compatible Battery	Sunwoda, Pylontech, ACSUHO, CESC				
	AC Input and Output				
Rated Output Power	5000 W	6000 W	8000 W	10000 W	12000 W
Max. Output Apparent Power	5500 VA	6600 VA	8800 VA	11000 VA	12000 VA
Max. Input Apparent Power	12000 VA	12000 VA	16000 VA	16000 VA	16000 VA
Rated Grid Voltage	3L / N / PE, 380 V / 400 V				
Rated Grid Frequency	50 Hz / 60 Hz				
Max. Output Current (per phase)	8.3 A	10 A	13.3 A	16.7 A	17.4 A
Max. Input Current (per phase)	18.2 A	18.2 A	24.2 A	24.2 A	24.2 A
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)				
Total Harmonic Distortion, THDi	<3 %				
	Backup Output (Off Grid)				
Rated Output Power	5000 W	6000 W	8000 W	10000 W	12000 W
Peak Out Apparent Power, 10s	10000 VA	12000 VA	16000 VA	16000 VA	16000 VA
Switch Time	<10 ms				
Rated Grid Voltage	3L / N / PE, 380 V / 400V				
Rated Grid Frequency	50 Hz / 60 Hz				
Max. Output Current (per phase)	8.3 A	10 A	13.3 A	16.7 A	17.4 A
Total Harmonic Distortion, THDv	<3%				
	Efficiency				
Max. Efficiency	98.0%				
Euro Weighted Efficiency	97.3%				
Max. Battery Discharge Efficiency	97.0%				
	Standard Compliance				
Grid Regulation	2016/631 EU (NC RfG), VDE-AR-N 4105/11.18, DIN VDE V 0124-100/06.20, Order no. 208:2018 Rev. 00, EN 50549-1/10, CEI 0-21:2022-03, CEI 0-21;V1:2022-11, CEI 0-21;V2:2024-01				
Safety Regulation	IEC/EN 62109-1, IEC/EN 62109-2				
EMC	IEC/EN 61000-6-1, IEC/EN 61000-6-3				
	General Data				
Dimensions (W x H x D)	514 × 496 × 205 mm				
Weight	30 kg				
Installation	Wall-mounted				
Operation Temperature	-25 °C~ +60 °C (>45 °C derating)				
Operation Humidity	0 ~ 95% (Non-condensing)				
Protection Degree	IP66				
Max. Operating Altitude	4000 m				
Cooling Method	Natural Convection				
Noise Emission	<40 dB				
Topology	Transformerless				
Display	LED indicator, APP				
Signal Input and Output	DRM, 1×DI, 2×DO				
Standby Consumption	<15 W				

① To be released in Q2 2025

YINERGY PRODUCT

RESIDENTIAL



HI SERIES



High Performance

- 200% PV oversizing and up to 110% AC output.
- 200% peak EPS power for 60s.
- Max. 210A charging / discharging current.
- 80V low start-up voltage for longer operation.



Assured Reliability

- Battery terminal temperature detection.
- IP65 protection degree.
- Type II SPD on AC&DC side.
- Optional AFCI protection.



Smart Management

- Smart loads management.
- Single unit UPS-level switchover time < 4ms.



Flexible Adaptability

- Max. 10pcs parallel for on-grid and off-grid. ^①
- Generator function for versatile operations.
- Max. 28A input per string, optimized for high-power solar panels.

Hybrid Inverter

Single Phase

3kW

5kW

6kW

8kW

10kW

12kW



Model
Max. PV Array Power
Max. PV Input Power
Max. PV Input Voltage
Rated Voltage
Start-up Voltage
MPPT Range
Max input Current per MPPT
Max. Short Circuit Current per MPPT
No.of MPP Trackers/No.of String Per MPP Tracker
Battery Type
Rated Voltage
Voltage Range
Max.Current
Rated Output Power
Max. Output Power
Max. Input Power
Grid Type
Max. Output Current
Max. Input Current
Power Factor
THDi
Rated Output Power
Rated EPS output voltage, frequency
Peak Power (off-grid)
On/Off grid switching time
Peak Efficiency
MPPT Efficiency
Communication Interface
Type of Cooling
Size(L*H*W)/mm
Weight/kg
Operating Temperature Range
Storage temperature
Permissible Ambient Humidity
Permissible Altitude
Ingress protection
Noise
Inverter Topology
Surge Protection Level
Type of Cooling
Warranty
Grid
Safety
EMC

HI-1P3K-LV	HI-1P5K-LV	HI-1P6K-LV	HI-1P8K-LV	HI-1P10K-LV ^①	HI-1P12K-LV ^①
PV Input					
6000 W	10000 W	12000 W	16000 W	20000 W	24000 W
4800 W	8000 W	9600 W	12800 W	16000 W	19200 W
510 V					
360 V					
80 V					
90 V - 425 V					
18 + 18 A			28 + 28 A		
27 + 27 A			42 + 42 A		
2/1+1			2/2+2		
Battery Data					
Lead acid / Lithium					
48V					
40V-60V					
75 A	120 A	135 A	190 A	200 A	210 A
AC Input & Out (ON-GRID)					
3000 W	5000 W	6000 W	8000 W	10000 W	12000 W
3300 VA	5500 VA	6600 VA	8800 VA	11000 VA	13200 VA
3300 VA	5500 VA	6600 VA	8800 VA	11000 VA	13200 VA
220/230Vac, L/N/PE, 50/45-55, 60/55-65Hz, 0.85Un-1.1Un					
14.3 A	24 A	28.7 A	38.3 A	43.5 A	52.2 A
15 A	31 A	35 A	44A	45.5A	54.6 A
~1(-0.8lagging...0.8leading)					
< 3%					
Eps (Off-Grid) Output (With Battery)					
3000 W	5000 W	6000 W	8000 W	10000 W	12000 W
220 / 230 Vac, L / N / PE, 50 / 45 - 55, 60 / 55 - 65 Hz, 0.85 Un - 1.1 Un					
1.5 times of rated power 30 min					
< 4 ms					
Efficiency					
96.00%					
>99%					
Interface					
LED + LCD / CAN, RS485, CT, NTC, WiFi					
Intelligent Air Cooling					
General Data					
411 × 631 × 236 mm			411 × 631 × 238 mm		
28.6 kg			30 kg		
-25 °C~ +60 °C (>45 °C derating)					
'-25°C ~ +70°C					
5 ~ 95% (Non-condensing)					
< 3000 m					
IP65					
<45 dB					
Transformerless for PV side / HF for battery side					
TYPE II(DC), TYPE II(AC)					
Natural Convection			Intelligent Redundant Fan-cooling		
5 Years					
Standards					
NRS 097-2-1, IEC61727, IEC62116, PEA, MEA					
IEC62109-1/, IEC62109-2					
IEC61000-6-1, IEC61000-6-3					

① To be released on Q3 2025

YINERGY PRODUCT

RESIDENTIAL



HI SERIES



High Performance

200% PV oversizing and up to 110% AC output.

200% peak EPS power for 10s.

Max. 290A charging / discharging current.

160V low start-up voltage for longer operation.



Assured Reliability

Battery terminal temperature detection.

IP65 protection degree.

Type II SPD on AC & DC side.

Optional AFCI protection.



Smart Management

Smart loads management.

Single unit UPS-level switchover time < 6ms.



Flexible Adaptability

Max. 10pcs parallel for on-grid and off-grid.

Max. 30A input per string, optimized for high-power solar panels.

Hybrid Inverter

Three Phase

- 5kW
- 6kW
- 8kW
- 10kW
- 12kW
- 15kW



Model	HI-3P5K-LV	HI-3P6K-LV	HI-3P8K-LV	HI-3P10K-LV	HI-3P12K-LV	HI-3P15K-LV ^①
	PV Input					
Max. PV Access Power	10000 W	12000 W	16000 W	20000 W	24000 W	30000 W
Max. PV Input power	8000 W	9600 W	12800 W	16000 W	19200 W	24000 W
Max. input voltage	800 V					
Rated voltage	550 V					
Start-up voltage	160 V					
MPPT voltage range	200 ~ 700 V					
Max. input current	17 A + 17 A			30 A + 30 A		
Max. short circuit current	20 A + 20 A			36 A + 36 A		
Number of MPPT Trackers	2					
Number of Strings per MPPT	1 + 1			2 + 2		
	AC Input / Output					
Rated AC Input/output Active Power	5000 W	6000 W	8000 W	10000 W	12000 W	15000 W
Max. AC Input/output Apparent Power	5500 VA	6600 VA	8800 VA	11000 VA	13200 VA	16500 VA
Rated AC Input Current	7.6 A	9.1 A	12.1 A	15.2 A	18.2 A	22.8 A
Rated AC Output Current	7.2 A	8.7 A	11.6 A	14.5 A	17.4 A	21.8 A
Max. AC Input Current	8.4 A	10 A	13.4 A	16.7 A	20 A	25 A
Max. AC Output Current	8 A	9.6 A	12.8 A	15.9 A	19.2 A	24 A
Max. Continuous AC Passthrough	30 A (grid to load)			50 A (grid to load)		
Peak Power (off-grid) 10s	10000 W	12000 W	16000 W	20000 W	24000 W	24000 W
Power Factor Range	0.8 leading to 0.8 lagging					
Rated AC voltage Range	220 / 380 V, 230 / 400 V, 0.85 Un ~ 1.1 Un					
Rated Grid Frequency	50 Hz / 45 Hz ~ 55 Hz, 60 Hz / 55 Hz ~ 65 Hz					
Grid Connection Form	3L + N + PE					
Switch Time	< 6 ms					
THDi	< 3% (of nominal power)					
DC Injection Current	< 0.5% In					
	Battery					
Battery type	Lead-acid or Lithium-ion					
Voltage range	40 ~ 60 V					
Max. charge/discharge current	120 A	150 A	200 A	220 A	250 A	290 A
Charging Strategy for Lead-Acid battery	3 stages curve					
Charging Strategy for Li-ion Battery	Self-adaption to BMS					
Communication	CAN, RS485					
	Efficiency					
Max. Efficiency	97.60%					
Euro Efficiency	96.50%					
MPPT Efficiency	> 99%					
	Interface					
Communication Interface	RS485 / RS232 / CAN					
Monitor Mode	WIFI					
	General Data					
Operating Temperature	-25 °C~ +60 °C (>45 °C derating)					
Permissible Ambient Humidity	5 ~ 95% (Non-condensing)					
Permissible Altitude	< 3000 m					
Noise	≤ 55 dB					
Ingress Protection(IP) Rating	IP65					
Inverter Topology	Non-isolated					
Over Voltage Category	OVC II (DC), OVC III (AC)					
Surge	TYPE II (DC), TYPE II (AC)					
Cabinet Size (W × H × D)	422 × 658 × 254 mm (Excluding Connectors and Brackets)					
Weight	≤ 45 kg					
Type of Cooling	Intelligent Air Cooling					
Warranty	5 Years					
Grid Regulation	IEC61727, IEC62116, EN50549-1/-10					
Safety Standard	EN 62109-1, EN 62109-2, EMC, IEC / EN 61000-3/-6					
EMC Standard	IEC / EN 61000-6-1/2					

SI SERIES



User-Friendly

24H monitoring and maintenance (optional).

Easy to install and set up.



Safe & Reliable

AC / DC built-in type III SPD (optional).

AI powered APCI protection (optional).

IP66 protection.



Smart

Smart IV curve scanning.

Multiple monitoring methods supported.

RS485 / WiFi / Wire Ethernet / GPRS (optional).

Built-in export power control.

Remote firmware upgrade with simple operation.

PV String Inverter

Single Phase

3kW	3.6kW	4kW	5kW	6kW
7kW	8kW	9kW	10kW	



Model	SI-1P3K-Y1	SI-1P3K6-Y1	SI-1P4K-Y1	SI-1P5K-Y1	SI-1P6K-Y1	SI-1P7K-Y1	SI-1P8K-Y1	SI-1P9K-Y1	SI-1P10K-Y1
	PV Input Data								
Max. DC Power	4500 W	5400 W	6000 W	7000 W	8400 W	9800 W	11200 W	12600 W	14000 W
Max. DC Voltage	600 V								
MPPT Voltage Range	70 ~ 550 V								
MPPT Full Power Voltage Range	110 ~ 550 V	130 ~ 550 V	145 ~ 550 V	180 ~ 550 V	220 ~ 550 V	220 ~ 550 V	220 ~ 550 V	220 ~ 550 V	220 ~ 550 V
Rated Input Voltage	360 V								
Start-up Voltage	70 V								
Max. Input Current	14 A + 14 A					14 A + 26 A		26 A + 26 A	
Max. Short Current	18 A + 18 A					18 A + 35 A		35 A + 35 A	
No. of MPP Tracker/No.of PV String	2 / 2					2 / 3		2 / 4	
Input Connector Type	MC4								
	AC Output Data								
Max. Output Power	3300 VA	3960 VA	4400 VA	5500 VA	6600 VA	7700 VA	8800 VA	9900 VA	11000 VA
Nominal Output Power	3000 W	3600 W	4000 W	5000 W	6000 W	7000 W	8000 W	9000 W	10000 W
Max. Output Current	15 A	17.5 A	20 A	24 A	28.7 A	33.6 A	38.3 A	45 A	50 A
Nominal Output Voltage	L / N / PE, 220 Vac, 230 Vac, 240 Vac								
Grid Voltage Range	180 Vac ~ 276 Vac (According to local standard)								
Nominal Output Frequency	50 / 60 Hz								
Grid Frequency Range	45 ~ 55 Hz / 54 ~ 66 Hz (According to local standard)								
Output Power Factor	1 default (adjustable from 0.8 leading to 0.8 lagging)								
Output Current THD	< 3%								
	Efficiency								
Max. Efficiency	98.20%	98.20%	98.20%	98.20%	98.20%	98.20%	98.20%	98.32%	98.40%
Euro Efficiency	97.80%	97.82%	97.85%	97.90%	97.92%	97.95%	98.00%	98.00%	98.10%
	Protection								
PV Reverse Polarity Protection	YES								
PV Insulation Resistance Detection	YES								
AC Short Circuit Protection	YES								
AC Over Current Protection	YES								
AC Over Voltage Protection	YES								
Anti-Islanding Protection	YES								
Residual Current Detection	YES								
Over Temperature Protection	YES								
Integrated DC switch	YES								
Surge Protection	Integrated (Type III)								
Smart IV Curve Scanning	YES								
Quick Arc Fault Circuit interruption	Optional								
	General Data								
Dimensions (W × H × D)	358 × 360 × 142 mm					370 × 510 × 192 mm		370 × 535 × 192 mm	
Weight	10 kg					17 kg		18 kg	
Protection Degree	IP66								
Enclosure Material	Aluminum								
Ambient Temperature Range	-25 °C ~ +60 °C								
Humidity Range	0 ~ 100%								
Topology	Transformerless								
Communication Interface	RS485 / WiFi / Wire Ethernet / GPRS (optional)								
Cooling Concept	Convection							Intelligent fan cooling	
Noise Emission	< 28 db					< 40 db			
Night Power Consumption						< 1 W			
Max. Operation Altitude						4000 m			
	Certifications and Standards								
EMC Standard	EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12								
Safety Standard	IEC 60068, UL1741, EN62109								
Grid-connection	IEEE1547, CSA C22, EN50549, VDE4105, VDE0126, RD1699, ABNT NBR16149 & 16150, AS4777.2, NB/T32004, G98/G99, IEC61727								

YINERGY PRODUCT

COMMERCIAL & INDUSTRIAL



SI SERIES



High-Efficiency

Max. efficiency up to 99%.

Max. string current up to 20A, match 210 panel, no loss power generation.

Low startup voltage and wide PV voltage range, increase power generation.



Safe & Reliable

SPD-II protection on both DC / AC sides.

AI powered AFCI protection, avoid fire risks.

IP66 protection, not afraid of any environment.



Smart O&M

Smart IV curve scanning, fast and accurate debugging.

Multiple monitoring methods supported.

APP intelligent O&M, real time dynamic update.

String Inverter

Three Phase | 4 MPPTs

30kW

36kW

40kW

50kW

60kW



Model	SI-3P30K-Y1	SI-3P36K-Y1	SI-3P40K-Y1	SI-3P50K-Y1	SI-3P60K-Y1
	PV Input Data				
Max. DC Power	45000 W	45000 W	60000 W	75000 W	90000 W
Max. DC Voltage	1100 V				
MPPT Voltage Range	200 - 1000 V				
MPPT Full Power Voltage Range	500 - 850 V				
Rated Input Voltage	620 V				
Start-up Voltage	200 V				
Max. Input Current	38 A × 2			40 A × 3	38 A × 4
Max. Short Current	48 A × 2			48 A × 3	48 A × 4
No. of MPP Tracker/No.of PV String	2 / 5			3 / 7	4 / 8
Input Connector Type	MC4				
	AC Output Data				
Max. Output Power	33000 VA	39600 VA	44000 VA	55000 VA	66000 VA
Nominal Output Power	30000 W	36000 W	40000 W	50000 W	60000 W
Max. Output Current	48 A	60 A	65 A	80 A	96 A
Nominal Output Voltage	3P + N + PE / 3P + PE 230 / 400 Vac				
Grid Voltage Range	260 Vac - 519 Vac (according to local standard)				
Nominal Output Frequency	50 / 60 Hz				
Grid Frequency Range	45 - 55 Hz / 55 - 65 Hz (According to local standard)				
Output Power Factor	1 default (adjustable from 0.8 leading to 0.8 lagging)				
Output Current THD	< 3%				
	Efficiency				
Max. Efficiency	98.50%	98.65%	98.65%	98.80%	99.00%
Euro Efficiency	98.10%	98.20%	98.25%	98.45%	98.50%
	Protection				
PV Reverse Polarity Protection	YES				
PV Insulation Resistance Detection	YES				
AC Short Circuit Protection	YES				
AC Over Current Protection	YES				
AC Over Voltage Protection	YES				
Anti-Islanding Protection	YES				
Residual Current Detection	YES				
Over Temperature Protection	YES				
Integrated DC switch	YES				
Surge Protection	Integrated (Type II)				
Smart IV Curve Scanning	YES				
Quick Arc Fault Circuit interruption	Optional				
	General Data				
Dimensions (W × H × D)	450 × 485 × 210 mm		710 × 470 × 236 mm		
Weight	26 kg		44 kg		51 kg
Protection Degree	IP66				
Enclosure Material	Aluminum				
Ambient Temperature Range	-25 °C - +60 °C				
Humidity Range	0 - 100%				
Topology	Transformerless				
Communication Interface	RS485 / WiFi / Wire Ethernet / GPRS (optional)				
Cooling Concept	Intelligent fan cooling				
Noise Emission	< 51 db		< 55 db		
Night Power Consumption	< 1 W				
Max. Operation Altitude	≤ 4000 m				
	Certifications and Standards				
EMC Standard	EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12				
Safety Standard	IEC 60068, UL1741, EN62109				
Grid-connection	IEEE1547, CSA C22, EN50549, VDE4105, VDE0126, RD1699, ABNT NBR16149 & 16150, AS4777.2, NB/T32004, G98/G99, IEC61727				

YINERGY PRODUCT

COMMERCIAL & INDUSTRIAL



SI SERIES



High-Efficiency

Max.efficiency up to 99%.

Max.6 MPPT design with smart MPPT algorithm, minimize mismatch.

Low startup voltage and wide PV voltage range, increase power generation.



Safe & Reliable

SPD-II protection on both DC / AC sides.

AI powered AFCI protection, avoid fire risks.

IP66 cooling fan, support long-term work in harsh environment.



Smart O&M

Smart IV curve scanning, fast and accurate debugging.

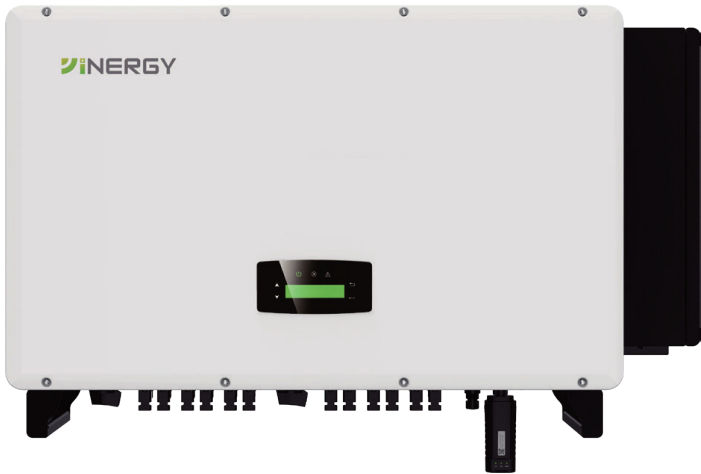
Multiple monitoring methods supported.

Remote firmware upgrade with simple operation.

String Inverter

Three Phase | 6 MPPTs

70kW	75kW	80kW
90kW	100kW	110kW



Model
Max. DC Power
Max. DC Voltage
MPPT Voltage Range
MPPT Full Power Voltage Range
Rated Input Voltage
Start-up Voltage
Max. Input Current
Max. Short Current
No. of MPP Tracker/No.of PV String
Input Connector Type
Max. Output Power
Nominal Output Power
Max. Output Current
Nominal Output Voltage
Grid Voltage Range
Nominal Output Frequency
Grid Frequency Range
Output Power Factor
Output Current THD
Max. Efficiency
Euro Efficiency
PV Reverse Polarity Protection
PV Insulation Resistance Detection
AC Short Circuit Protection
AC Over Current Protection
AC Over Voltage Protection
Anti-Islanding Protection
Residual Current Detection
Over Temperature Protection
Integrated DC switch
Surge Protection
Smart IV Curve Scanning
Quick Arc Fault Circuit interruption
Dimensions (W × H × D)
Weight
Protection Degree
Enclosure Material
Ambient Temperature Range
Humidity Range
Topology
Communication Interface
Cooling Concept
Noise Emission
Night Power Consumption
Max. Operation Altitude
EMC Standard
Safety Standard
Grid-connection

SI-3P30K-Y1	SI-3P36K-Y1	SI-3P40K-Y1	SI-3P50K-Y1	SI-3P60K-Y1	SI-3P60K-Y1
PV Input Data					
105000 W	112500 W	120000 W	135000 W	150000 W	165000 W
1100 V					
200 - 1000 V					
500 - 850 V					
620 V					
200 V					
38 A × 6					
48 A × 6					
6 / 12					
MC4					
AC Output Data					
77000 VA	82500 VA	88000 VA	99000 VA	110000 VA	110000 VA
70000 W	75000 W	80000 W	90000 W	100000 W	110000 W
111 A	120 A	127 A	143 A	158 A	158 A
3P + N + PE / 3P + PE 230 / 400 Vac					
260 Vac - 519 Vac (according to local standard)					
50 / 60 Hz					
45 - 55 Hz / 55 - 65 Hz (According to local standard)					
1 default (adjustable from 0.8 leading to 0.8 lagging)					
< 3%					
Efficiency					
98.70%					
98.30%		98.40%			
Protection					
YES					
YES					
YES					
YES					
YES					
YES					
YES					
YES					
Integrated (Type II)					
YES					
Optional					
General Data					
979 × 610 × 310 mm					
72 kg		76 kg			
IP66					
Aluminum					
-25 °C - +60 °C					
0 - 100%					
Transformerless					
RS485 / WiFi / Wire Ethernet / GPRS (optional)					
Intelligent fan cooling					
< 55 db		< 60 db			
< 1 W					
≤ 4000 m					
Certifications and Standards					
EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12					
IEC 60068, UL1741, EN62109					
IEEE1547, CSA C22, EN50549, VDE4105, VDE0126, RD1699, ABNT NBR16149 & 16150, AS4777.2, NB/T32004, G98/G99, IEC61727					

YINERGY PRODUCT

COMMERCIAL & INDUSTRIAL



PCS SERIES



Ultimate performance

Ultra-high efficiency of 98.7%.

Intelligent harmonic compensation algorithm, harmonics minimum to 1.5%.

Advanced heat pipe cooling technology, support long-term operation at 50°C ambient temperature.



Safe & Reliable

24h real-time insulation impedance detection, improve ESS safety.

Supports up to 20 parallel machines.

Advanced impedance remodeling algorithm, adapt to both strong and weak power grids.



Simple operation and maintenance

Ultra-fast OTA upgrade <15s.

Multiple communication modes, support RS485, CAN and Ethernet

µs-level fault recording wave, easy to locate problems.

Modular PCS

Modular Design

100kW



Model	PCS-100KM-L-Y1
	AC Output Data
Rated AC Power	100 kW
AC Grid Connection Type	3 W / PE
Overload Capability	110 kW
	On-Grid Operation Mode
AC Voltage	400 Vac (-15%~+15%)
AC Grid Frequency	50 Hz
Adjustable Power Factor	0.99 (-1~+1)
THDi	≤ 3%
	Off-Grid Operation Mode
Rated Output Voltage	400 Vac
Rated Output Frequency	50 Hz
	DC Output Data
Maximum DC Power	110kW
DC Voltage Range	620~900 V
Maximum DC Current	178 A
No. of DC Input	1
DC Precharge Circuit	Yes
Maximum Efficiency	98.70%
	General Parameters
Dimensions (W × H × D)	500 × 220 × 725 mm
Weight	58 kg
Noise	<70 dB
IP Degree	IP20
Operating Temperature Range	-30°C~+60°C (>45°C derating)
Cooling Method	Smart fan cooling
Relative Humidity	0~95% (Non-condensing)
Maximum Operating Altitude	4000 m (>2000 m derating)
Certification	GB/T 34120-2017, GB/T 34133-2017
	Display & Communication
Display	LED
Communication	RS485, Ethernet, CAN 2.0
BMS Connect	RTU /Modbus TCP
	Protection
Protection	Battery reverse polarity protection, DC Overcurrent Protection, AC Overcurrent Protection, AC Overvoltage Protection, Surge Protection, Grid Monitoring, Fault self-diagnosis

YINERGY PRODUCT

COMMERCIAL & INDUSTRIAL



System Integration & All-Dimensions Control

Integrates liquid-cooling batteries, PCS, energy management, power distribution, environmental control, fire protection, and monitoring communication functions into one, controlling system's operational status in all dimensions.



Flexible Expansion & Advanced Protection

Superior Protection: IP55 protection level, fearless of harsh outdoor weather.

Intelligent Temperature Control: Equipped with liquid cooling system to guarantee the uniform ofbattery temperature, enhance lifespan and improve energy efficiency.

Precision Monitoring: Real-time leak detection minimizes maintenance requirements.



Smart Management & Efficient Maintenance

Intelligent Monitoring: Local screen or cloud platform management, supporting operational monitoring, strategy fconfiguration, and remote firmware updates.

Real-time Alerts: Intelligent balancing strategies, advance warnings to ensure system safety.



Optimized Design & Space Efficiency

Integrated Air Conditioning: Door-mounted embedded design, saving space, good waterproof effect.

Patented Cabinet Design: Optimized cooling air ducts, sand, dust, and rain protection, front and rear doors for easy maintenance, supports parallel arrangement of multiple systems, reducing floor space.

Liquid Cooling
Energy Storage System

Intelligent Liquid Cooling

261kW



Model
Battery rated capacity
Battery rated voltage
Battery voltage range
Battery type
Battery cell capacity
Cell Capacity
Max.charging/discharging power
Max.charge/discharge current
Rated Power
PV Voltage Range
PV Max. Current
MPPT quantity
Rated AC power
Rated AC current
Rated AC voltage
Rated AC frequency
THDi
Power Factor
THDv
Protection level
Protection
Isolation mode
Shutdown self-discharge
Display
Relative humidity
Noise
Ambient temperature
Cooling mode
Altitude
Communication interface
Dimension (W* D* H)
Weight (approx.)
Safety Regulation

AIO-125K261-L-Y3
Battery Parameters
261 kWh
832 V
728 ~ 936 V
LFP
1P*52S*5S
314 Ah
0.5 P
157 A
PV Parameters
100/150/200kW
250~500 V(MPPT)
160A*2
2
AC Parameters
125 kw
180 A
400 V, 3W+N+PE
50/60 Hz
<3 (Rated power)
-1 leading ~ +1 lagging
<3% (linear load)
General Parameters
IP55
level I
Isolation transformer
<0.1% Rated power (Without transformer)
LCD
0 ~ 95% (Non-condensing)
<78 dB
-25 °C to +60 °C (Derating above 45 °C)
Liquid-cooled
3000 m(> 2000 m derating)
CAN / Ethernet /485
1600 × 1350 × 2300 mm
3330 kg
UN 38.3, IEC 61000, IEC 62477, IEC 62109, IEC 62619, IEC 50549

YINERGY PRODUCT

COMMERCIAL & INDUSTRIAL



PCS SERIES

Adopts advanced digital control technology and features the self-developed Lotus-PCS microgrid management system, which optimizes control performance and enhances system reliability to meet diverse application scenarios.



Grid Compliance & Resilience

Grid dispatchable with primary frequency/voltage regulation.
Black start capability for emergency recovery.



Flexible Deployment

Indoor/outdoor cabinet options for versatile installation.
Modular rack design enabling flexible configuration, easy expansion, and maintenance.



High-Efficiency Power Conversion

3-level power module topology with industry-leading conversion efficiency (>98%).



Intelligent Local Control

Built-in HMI for real-time monitoring, energy strategy customization, and remote firmware updates.

Power Conversion System

500 kW

625 kW



Model	PCS-500KM-L-Y1	MPCS-625KM-L-Y1
	DC Side Parameters	
Operating Voltage Range	580 ~ 1000 V	
Max. DC Current	200 A * 4	200 A * 5
Supported Battery Types	Li-ion / VRLA	
Operating Mode	Constant Current, Constant Power, AC Voltage Source, DC Voltage Source	
	AC Side Parameters (On Grid)	
Rated / Max. AC Power	500 / 550 kW	625 / 687 kW
Rated AC Current	180 A * 4	180 A * 5
Rated AC Voltage	400 V, 3L+PE / 3L+N+PE	
Rated AC Frequency	50 / 60 Hz ± 5 Hz	
THDi	<3% (Rated power)	
Power Facto	-1 ~ +1	
	AC Side Parameters (Off Grid)	
Rated AC Power	400 V	
Rated AC Frequency	50 / 60 Hz	
THDU	<3% (linear load)	
Overload Capacity	110% continuous / 120% 1min	
	General Parameters	
Protection Level	IP55	
Protection	level I	
Isolation Mode	Transformer (Optional)	
Shutdown Self-discharge	<0.1% Rated power (Without transformer)	
Display	LCD	
Relative Humidity	0 ~ 95% (No condensation)	
Noise	<78 dB	
Ambient Temperature	-25 °C to +60 °C (> 45 °C derating)	
Altitude	Air-cooling	
Certification	3000 m (> 2000 m derating)	
Communication interface	CAN / Ethernet / 485	
Dimension (W * D * H)	1350 × 1000 × 2300 mm	
Weight	2350 kg	2700 kg

PCS SERIES



Flexible Configuration

Modular design with up to 8 modules.
Direct interconnection with 690Vac.
Power range: 215kW-1.72MW.



High Efficiency & Stability

Maximum efficiency can reach 98.5%, @ DC 1070V.
Multi-string technology for better battery safety and performance.



Extensive Use

Automatic operation strategy of peak shaving and load shifting.
Outdoor NEMA3R Cabinet.



Safety & Compatibility

Fast response time less than 20ms.
Grid-support function built-in.
Global grid certified & listed.

Power Conversion System

1725 kW



Model
Max. DC power
DC Voltage Range (Full power)
Full Load Voltage Range
Number of DC Branches
Number of Modules
Max. DC Current per Branch
Voltage Regulation Accuracy
Nominal AC power
AC Connection
Overload Capacity
AC Voltage
AC Frequency
THDi
Power Factor
Peak Efficiency (With auxiliary source)
Dimension (W * D * H)
Weight
Noise
Protection
Operation Temperature
Cooling Method
Humidity (Storage)
Altitude
Communication
Protocol
Certification

PCS-1725KM-M-Y1
DC Side Parameters
1898 kW
1000 ~ 1500 V
1070 ~ 1500 V
8
8
208 A
≤ ±1%
AC Side Parameters
1725 kVA
3P3W
1898 kVA
690 V (-15%~10%)
50 / 60 Hz ± 5 Hz
<3%
-0.9 ~ +0.9
System Parameters
98.5%
2200 × 1300 × 2160 mm
≈ 2200 kg
<75 dB
IP54
-20 °C to +60 °C (> 45 °C derating)
Air-Cooling
0 ~ 95% (No condensation)
3000 m (> 3000 m derating)
RS 485 / Ethernet / CAN
Modbus TCP/RTU, IEC104, IEC61850
EN50549-2, VDE4110, VDE4120, G99, IEC62477/61000/62109



DCES SERIES



Cluster-Level Management Architecture

Adopts a "one-cluster-one-control" topology to significantly improve system efficiency.



High-Capacity Battery Cell Solution

314Ah cells delivering 522 kWh. Enhanced cost-performance ratio & superior power density.



Wide Range of Applicable Scenarios

Projects with 500kWh to 2.08MWh Capacity.



Intelligent and convenient

Car gauge temperature control design, 10 years free coolant change.

Liquid Cooling Energy Storage System

Intelligent Liquid Cooling

522 kWh



Model	DCES-522K-L-Y1
	PACK Parameters
Cell Capacity/Type	0.5C / 314Ah / LFP
Pack Parameters	1P52S / 52.2 kWh
Voltage Range	135.2 ~ 187.2 V
BMS Communication Protocol	Ethernet / RS485 / CAN
	Battery System Parameters
Pack System Configuration	2 * (1P52S * 5)
System Capacity	522.25 kWh
Rated Voltage	832 V
DC Operating Voltage Range	676 ~ 936 V
	System Parameters
System Dimension (W*D*H)	2290 × 1360 × 2000 mm
Weight	≈ 4000 kg
IP Rating	IP55
Corrosion Protection Level	C3 (C4/C5 Optional)
Operation Temperature	-30 °C ~ +50 °C (>45°C Derating)
Operation Humidity	0 ~ 95% RH (No condensing)
Max. Operating Altitude	4000 m (>2000m derating)
Cooling Method	Liquid Cooling
Fire Protection System	Aerosol
System Communication Interface	Ethernet / RS485 / CAN
Certification	UN38.3, IEC62619



DCES SERIES



String-Level Management Architecture

Adopts a "one-string-one-control" topology to significantly improve system efficiency.



High-Capacity Battery Cell Solution

314Ah cells delivering 3.344/5.015 MWh per 20ft container. Enhanced cost-performance ratio & superior power density.



Wide Range of Applicable Scenarios

Projects with 3 MWh to 50 MWh Capacity.

Liquid Cooling Energy Storage System

Intelligent Liquid Cooling

3.344 / 5.015 MWh



Model	DCES-3344K-L-Y1	DCES-5015K-L-Y1
	PACK Parameters	
Cell Capacity/Type	0.5C / 314Ah / LFP	
Pack Parameters	1P104S / 104.5 kWh	
Voltage Range	270.4 ~ 374.4 V	
BMS Communication Protocol	RS485 / CAN / Ethernet	
	Battery System Parameters	
Pack System Configuration	8 * (1P104S * 4)	12 * (1P104S * 4)
System Capacity	3344 kWh	5015.96 kWh
Rated Voltage	1331.2 V	
DC Operating Voltage Range	1081.6 ~ 1497.6 V	
	System Parameters	
System Dimension (W*D*H)	6058 × 2438 × 2896 mm	
Weight	≈ 36 T	≈ 45 T
IP Rating	IP54	
Operation Temperature	-20 °C ~ +50 °C (> 45°C Derating)	
Operation Humidity	0 ~ 95% RH (No condensing)	
Max. Operating Altitude	4000 m (> 2000 m derating)	
Cooling Method	Liquid Cooling	
Fire Protection System	Aerosol	
System Communication Interface	RS485 / CAN / Ethernet	
Certification	UN38.3, IEC62619	

YINERGY PRODUCT

ACCESSORY

Stick Logger

4G / WIFI | Plug and play | Intelligent Management



Safe and Reliable

- Support data transmission

- Encryption & data recovery

Easy Installation

- Plug-and-play

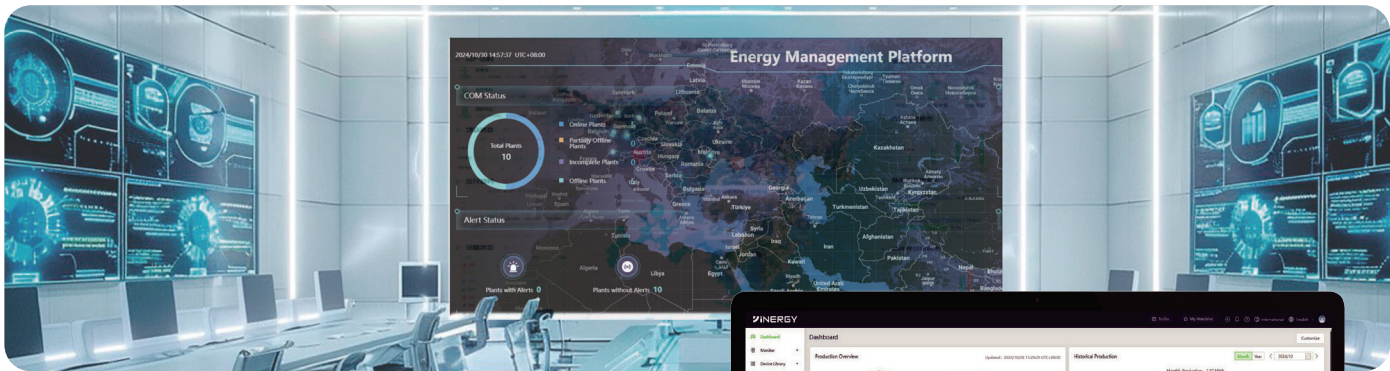
- Cable free

Intelligent O&M

- Support remote software upgrade

- Parameter configuration and fault analysis

	LS4G-5	LSW-5	LSE-3
Remote Communication Interface	4G (Domestic)	2.4G WiFi	LAN
Satellite Positioning	<20m (Optional)	— —	— —
Antenna Options	Build in antenna	Build in antenna	— —
Rated Input Voltage		DC 5-12 V	
Rated Power	3.5 W	1.5 W	1 W
SIM	Chip card / MicroSIM	— —	— —
Data Storage	8M Flash	8M Flash	2M Flash
Working Temperature		-40°C ~ +85°C	
Working Humidity (No condensation)		< 90% (No condensation)	
Numbers of Connected inverters		1	
Interval of Data Upload		5 Minutes (1-5 Minutes optional)	
User Configuration	Bluetooth / APP	Bluetooth / APP / Web / OTA	OTA / Web
Firmware Upgrade	OTA	OTA / Web	OTA / Web
Real-time Control		Yes	
Breakpoint Transmission		Yes	
Outage Reminder	Optional	Optional	— —



Yi Cloud

IOS | Android | Mac Os | Windows



Real Time Monitoring

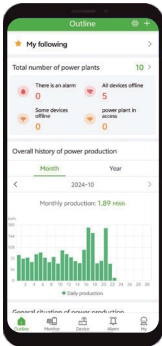
- Easy understanding status of inverters, modules, and batteries

User-Friendly

- Automatically calculate profits based on electricity generation

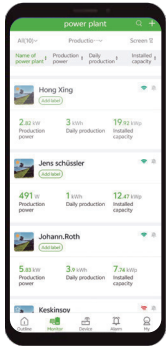
Fault Alarm

- Quick location of power plant faults



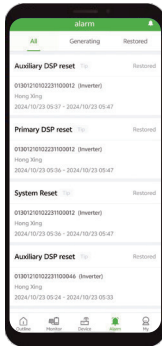
Dashboard

Support selecting "My Watchlist" or Status Differentiation" to view the relevant power station data dashboards



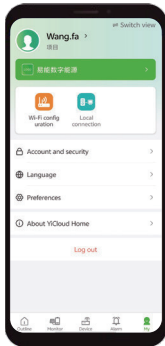
Monitor

Monitoring section supports the control of the whole process of access, management, analysis, etc



Alerts

Alerts module can summarize and display the alert data information of the equipment added to the power stat



Applications

Provide optimized application solutions for operators, installers and equipment providers

YINERGY SERVICE CASES



Guangdong Dongwan
Cable Manufacturing 1200kW/2580kWh



Jiangsu Nantong
Textile Manufacturing 500kW/1075kWh



Ningxia Guyuan
Rural Area Energy Storage 100kW/215kWh



Zhejiang Hangzhou
Telecom Operator 1000kW/2150kWh



Zhejiang Hangzhou
Electronic Equipment 400kW/860kWh



Zhejiang Hangzhou
Energy Service Industry 500kW/1075kWh



Zhejiang Jinhua
General Equipment 300kW/645kWh



Zhejiang Taizhou
Electrical Machinery 200kW/430kWh



Zhejiang Taizhou
Rubber & Plastic Manufacturing 800kW/1720kWh



Zhejiang Wenzhou
Public Affairs Office 400kW/860kWh



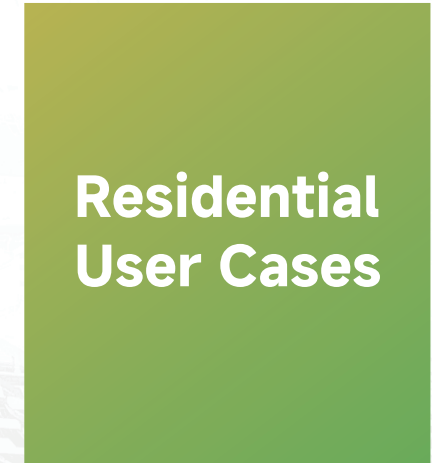
Zhejiang Wenzhou
Meter Manufacturing 400kW/860kWh



Baden, Germany
12.47 kW PV installed capacity
10 kW hybrid inverter + 10 kWh battery



Düsseldorf, Germany
6.66 kW PV installed capacity
5 kW hybrid inverter + 10 kWh battery



Wiesbaden, Germany
6.64 kW PV installed capacity
5 kW hybrid inverter + 10 kWh battery

Bamberg, Germany
6.8 kW PV installed capacity
5 kW hybrid inverter + 10 kWh battery



Bremen, Germany
11.6 kW PV installed capacity
10 kW hybrid inverter + 10 kWh battery



Kishinev, Moldova
10 kW PV installed capacity
8 kW hybrid inverter + 10 kWh battery

YINERGY BRAND CULTURE

R&D Testing Laboratory

Leading Research Environment



The laboratory is designed by CNAS standards, covering 2,500 square meters,-maintaining constant temperature and humidity control all year, able to cover the testing and certification of solar and storage integr ated machines,commer- cial and industrial solars, PCS, and 1-300kW energy storage system cabinets, the testing center has obtained TÜV certification as an authorized laboratory.



Anti-Island Test Device



AC Source Carrier Machine



Walk-In High & Low Temperature Test Box



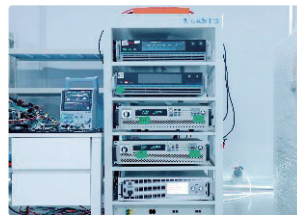
Rapid Temperature Change Test Box



High & Low Temperature Test Box



High & Low Temperature Test Box



Test Power Platform



Grid Simulator & Battery Simulator

Intelligence Factory

Cutting-edge Smart Manufacturing System

We introduce advanced production equipments to realize automatic production process, and associate with MES, WMS, and BI manufacturing data platforms to ensure the safety and accuracy of manufacturing, improve production efficiency, reduce energy consump- tion, and realize intelligent manufacturing based on end-to-end data flow.



The high-precision auto- mated robot, greatly improve the production efficiency, quality control and work safety.



High logistics automation, reduce errors, lower costs, and enhance overall logis- tics management levels.



First-class safety regulati- ons and charge/discharge testing equipment, ensur- ing the stability and reli- ability of the product.



Adopt a lean production model to eliminate waste, simplify processes, ensure quality, and provide pro- duction efficiency

Honors & Qualifications

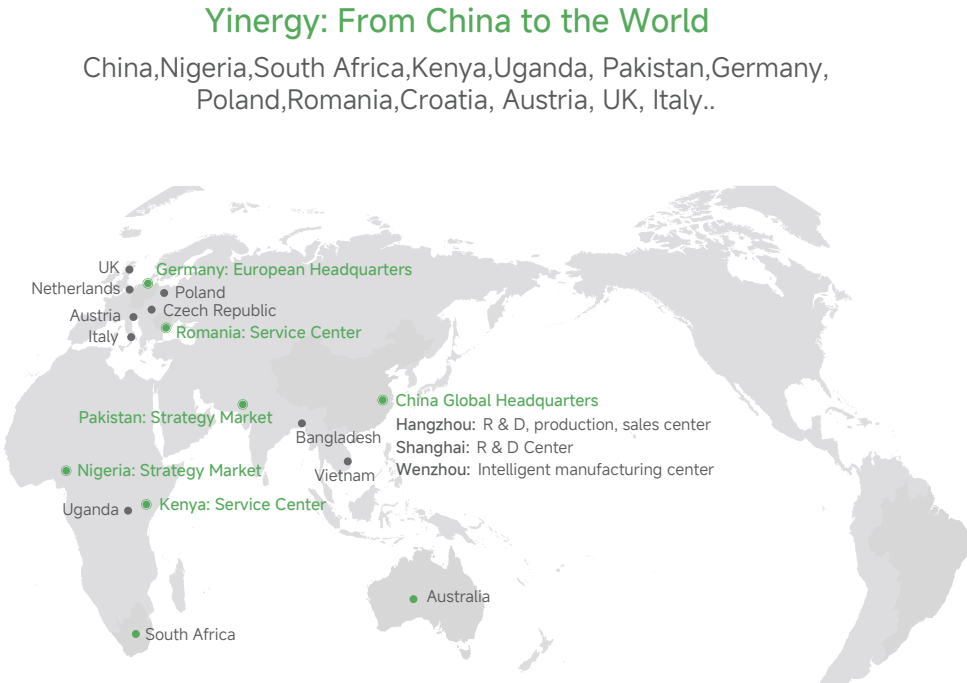
- National Technology-based Enterprise
- 10 Invention Patents 30 Patent Applications
- 27 Global Certifications 20 Countries & Regions
- Zhejiang Province Innovative Enterprise
- 2024 Annual Energy Storage Emerging Enterprise
- Energy Storage Industry Pioneer Award for Innovative Technology in C&I ESS Award for Preferred Solutions in C&I ESS



Global Layout

Continue to provide customers with quality and efficient, full range of services

- Pre-Sales Service Customized technical services, Product technical training
- In-Sales Service Full tracking service, Technical Support, Testing, Commissioning
- After-Sales Service 2-hour Consultation Response, 24/7 online service



Industrial & Commercial Energy Storage Forum 2024, China CISOLAR 2023 International solar Exhibition, Romania CESC International Energy Storage Conference, China SNEC International PV Power Generation Exhibition, China Intersolar Europe 2024 , Germany

INSTALLATION AND MAINTENANCE



PARTNERS

Focusing on distributed digital energy products and solutions

