Pakistan Version

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For Your Dream of Green Energy

Yinergy Pakistan

Yinergy Pakistan

Yinergy-Pakistan

+92 329 5905838

Yinergy Pakistan

Yinergy Pakistan

Yinergy Pakistan F8/1 Islamabad Pakistan

info.pk@yinergy-solar.com

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

2022 | Found

200+ | Employees

20+ | National Certifications

20+ | Countries

1 | Manufacture Bases

2 | R&D Bases

About Yinergy

Yinergy is a leading innovative digital energy technology company, focusing on distributed digital energy products and solutions.

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.

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.

Values

Customer-Centric.

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,commercial 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 consumption, and realize intelligent manufacturing based on end-to-end data flow.

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

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

First-class safety regulations and charge/discharge testing equipment, ensuring the stability and reliability of the product.

Adopt a lean production model to eliminate waste, simplify processes, ensure quality, and provide production 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

Yinergy: From China to the World

China,Nigeria,South Africa,Kenya,Uganda, Pakistan,Germany, Poland,Romania,Croatia, Austria, UK, Italy..

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

SOLAR PAKISTAN 2025

PAKISTAN SUSTAINABILITY WEEK 2024

INTERSOLAR EUROPE 2024 GERMANY

IGEM 2025 MALAYSIA

SOLAR & STORAGE LIVE 2024 UK

VEGA SERIES

Off Grid Solar Inverter

Dual Output

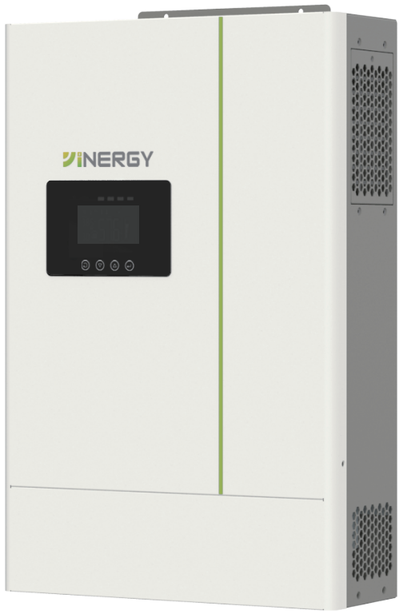
2 kW | 3.6kW | 6.5kW

High Compatibility

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

30~150VC, 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 Imax.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.

Model	OG-1P2K-D	OG-1P3K6-DT	OG-1P6K5-DT
	PV Input		
PV Maximum Input Power	3000 W	5000 W	9000 W
Max. PV Open Circuit Voltage	450 VDC	500 VDC	500 VDC
MPPT Range Operating Voltage	30 ~ 400 VDC	40 ~ 450 VDC	60 ~ 450 VDC
Max. Solar Input Current	18 A	18 A	28 A
	Battery Specifications		
Battery Type	Lithium / Lead Acid		
Nominal Battery voltage	12 V（1*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	2500 VA / 2000W	4500 VA / 3600 W	8120 VA / 6500 W
Surge Power	4000 VA	12000 VA	16000 VA
Parallel	/	/	/
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)	99.5%	95.00%	96.50%
Peak Efficiency (Battery to INV)	91%	93.00%	93.50%
Admissible Power Factor	-0.8~+0.8		
	Charger Specifications (Solar Charger & AC Charger)		
Max.AC Charge Current	100 A	100 A	120 A
Max PV Charge Current	100 A	100 A	120 A
Max. Charge Current (PV+AC)	100 A	100 A	120 A
	Physical		
Built-in Transfer	Yes	Yes	Yes
Built-in Power Booster	Yes	Yes	Yes
Dimensions, D × W × H (mm)	360 × 281 × 100 mm	117 × 283 × 423 mm	124 × 338 × 513 mm
Net Weight (Kg)	5 kg	7 kg	12 kg
Communication Interface	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 ℃ ~ 50 ℃		
Storage Temperature	-15 ℃ ~ 60 ℃		
Humidity	5% ~ 95% (Non-condensing)		

VEGA SERIES

Off Grid Solar Inverter

Dual Output

5kW

High Compatibility

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

60~450VDC, 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)

More Convenient

28A Imax.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 97%, ensures maximum energy conversion and enhances overall system performance.

Model	OG-1P5K-PDT
	PV Input
PV Maximum Input Power	6500 W
Max. PV Open Circuit Voltage	500 VDC
MPPT Range Operating Voltage	120 ~ 450 VDC
Max. Solar Input Current	18 A
	Battery Specifications
Battery Type	Lithium / Lead Acid
Nominal Battery voltage	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	6250 VA / 5000 W
Surge Power	15000 VA
Parallel	/
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)	/
Peak Efficiency (Battery to INV)	/
Admissible Power Factor	-0.8~+0.8
	Charger Specifications (Solar Charger & AC Charger
Max.AC Charge Current	80 A
Max PV Charge Current	80 A
Max. Charge Current (PV+AC)	80 A
	Physical
Built-in Transfer	Yes
Built-in Power Booster	Yes
Dimensions, D × W × H (mm)	124 × 338 × 513 mm
Net Weight (Kg)	12 kg
Communication Interface	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 ℃ ~ 50 ℃
Storage Temperature	-15 ℃ ~ 60 ℃
Humidity	5% ~ 95% (Non-condensing)

YINERGY PRODUCT | RESIDENTIAL

ALTA SERIES

High Performance

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

200% peak EPS power for 60s. ①

Max. 135A 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.

Afford 350Vac grid fluctuations.

Smart Management

Smart loads management.

<4ms UPS level transfer time.

6-time-slot battery management

Flexible Adaptability

Max. 3pcs parallel for on-grid and off-grid.

Support storing energy from generator.

① :With output voltage regulation of load Power.

Hybrid Inverter

Single Phase

3.3kW | 4.4kW | 5.5kW | 6.6kW

Model	HI6-1P3K3-LV	HI6-1P4K4-LV	HI6-1P5K5-LV	HI6-1P6K6-LV
	PV Side			
Max PV Access Power (W)	6000	7200	10000	12000
Max PV Input Power (W)	4800	5760	8000	9600
Max Input Voltage (V)	510			
Rated PV Input Voltage (V)	370			
Startup Voltage (V)	80			
MPPT Range (V)	90 ~ 425			
Max input Current per MPPT	20	20 + 20		
Max. Short Circuit Current per MPPT (A)	32	32 + 32		
No.of MPP Trackers/No.of String Per MPP	1/1	2/1+1		
	Battery Side			
Battery Type	Lead acid / Li-ion			
Rated Voltage	48V			
Voltage Range	40V-60V			
Max.Current	70	90	120	135
Power(W)	3000	4000	5000	6000
Communication	RS485/CAN			
Charging strategy for Lead-Acid battery	3 Stages Curve			
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
	On-Grid			
Rated Output Power (W)	3300	4400	5500	6600
Max Output Power (VA)	3300	4400	5500	6600
Max Input Power (VA)	3300	4400	5500	6600
Grid Type	220/230Vac, L/N/PE, 50/45-55, 60/55-65Hz, 0.85Un-1.1Un			
Rated AC Input (A)	15	20	25	30
Rated Output Current (A)	14.4	19.2	24	28.7
Max Input Current (A)	15	20	25	30
Max Output Current(A)	14.4	19.2	24	28.7
Max. Continuous AC Passthrough (grid to load)	35			40
Power Factor	~1(-0.8lagging...0.8leading)			
THDi	< 3%			
	Off-Grid			
Rated Output Power (W)	3000	4000	5000	6000
Max Output Power (W)	3000	4000	5000	6000
Output Type	220/230Vac, L/N/PE, 50/45-55, 60/55-65Hz, 0.85Un-1.1Un			
Peak Power (off-grid) (W)	2 times of rated power, 60s; 1.5 times of rated power 30min			
	Efficiency			
Peak Efficiency	97.60%			
Euro Efficiency	96.50%			
MPPT Efficiency	> 99%			
	Standards			
Grid	IEC61727,IEC62116,EN50549-10			
Sfety	IEC62109-1, IEC62109-2			
EMC	IEC61000-6-1, IEC61000-6-3			
	Basic Parameters			
Size(L*H*W)/mm	525 x 400 x 227 mm			
Weight/kg	18 kg			
	Interface			
Communication Interface	RS485/CAN/USB			
Monitor Mode	WIFI			
	General Data			
Operating Temperature Range (℃)	-25℃ to + 60℃, >45℃ Derating			
Storage Temperature(℃)	-25℃ ~ +70℃			
Permissible Ambient Humidity	5 to 95% (non condensing)			
Permissible Altitude	2000 m			
Ingress protection	IP65			
Noise (dB)	<35			
Inverter Topology	Non-Isolated			
Over Voltage Category	TYPE II(DC), TYPE II(AC)			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Type of Cooling	Natural convection			
Warranty(Years)	5 Years			

ALTA 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.

Generator function for versatile operations.

Max. 28A input per string, optimized for high-power solar panels.

Hybrid Inverter

Single Phase

6kW | 8kW | 10kW | 12kW

Model	HI-1P6K-LV	HI-1P8K-LV	HI-1P10K-LV	HI-1P12K-LV
	PV Input			
Max. PV Array Power	12000 W	16000 W	20000 W	24000 W
Max. PV Input Power	9600 W	12800 W	16000 W	19200 W
Max. PV Input Voltage	510 V			
Rated Voltage	360 V			
Start-up Voltage	80 V			
MPPT Range	90 V - 425 V			
Max input Current per MPPT	18 + 18 A	28 + 28 A		
Max. Short Circuit Current per MPPT	27 + 27 A	42 + 42 A		
No.of MPP Trackers/No.of String Per MPP Tracker	2/1+1	2/2+2		
	Battery Data			
Battery Type	Lead acid / Lithium			
Rated Voltage	48V			
Voltage Range	40V-60V			
Max.Current	135 A	190 A	200 A	210 A
	AC Input & Out (ON-GRID)			
Rated Output Power	6000 W	8000 W	10000 W	12000 W
Max. Output Power	6600 VA	8800 VA	11000 VA	13200 VA
Max. Input Power	6600 VA	8800 VA	11000 VA	13200 VA
Grid Type	220/230Vac, L/N/PE, 50/45-55, 60/55-65Hz, 0.85Un-1.1Un			
Max. Output Current	28.7 A	38.3 A	43.5 A	52.2 A
Max. Input Current	35 A	44A	45.5A	54.6 A
Power Factor	~1(-0.8lagging...0.8leading)			
THDi	< 3%			
	Eps (Off-Grid) Output (With Battery)			
Rated Output Power	6000 W	8000 W	10000 W	12000 W
Rated EPS output voltage, frequency	220 / 230 Vac, L / N / PE, 50 / 45 - 55, 60 / 55 - 65 Hz, 0.85 Un - 1.1 Un			
Peak Power (off-grid)	1.5 times of rated power 30 min			
On/Off grid switching time	< 4 ms			
	Efficiency			
Peak Efficiency	96.00%			
MPPT Efficiency	>99%			
	Interface			
Communication Interface	LED + LCD / CAN, RS485, CT, NTC, WiFi			
Type of Cooling	Intelligent Air Cooling			
	General Data			
Size(L*H*W)/mm	411 × 631 × 236 mm		411 × 631 × 238 mm	
Weight/kg	28.6 kg		30 kg	
Operating Temperature Range	-25 ℃~ +60 ℃ (>45 ℃ derating)			
Storage temperature	'-25℃ ~ +70℃			
Permissible Ambient Humidity	5 ~ 95% (Non-condensing)			
Permissible Altitude	< 3000 m			
Ingress protection	IP65			
Noise	<45 dB			
Inverter Topology	Transformerless for PV side / HF for battery side			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Type of Cooling	Intelligent Redundant Fan-cooling			
Warranty	5 Years			
	Standards			
Grid	NRS 097-2-1, IEC61727, IEC62116, PEA, MEA			
Safety	IEC62109-1/, IEC62109-2			
EMC	IEC61000-6-1, IEC61000-6-3			

ALTA 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. 3pcs parallel for on-grid and off-grid.

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

Hybrid Inverter

Three Phase

10kW | 12kW | 15kW

Model	HI-3P10K-LV	HI-3P12K-LV	HI-3P15K-LV
	PV Input		
Max. PV Access Power	20000 W	24000 W	30000 W
Max. PV Input power	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	30 A + 30 A		
Max. short circuit current	36 A + 36 A		
Number of MPPT Trackers	2		
Number of Strings per MPPT	2 + 2		
	AC Input / Output		
Rated AC Input/output Active Power	10000 W	12000 W	15000 W
Max. AC Input/output Apparent Power	11000VA	13200 VA	16500 VA
Rated AC Input Current	15.2A	18.2A	22.8 A
Rated AC Output Current	14.5A	17.4A	21.8A
Max. AC Input Current	16.7A	20 A	25 A
Max. AC Output Current	15.9A	19.2A	24 A
Max. Continuous AC Passthrough	50 A (grid to load)		
Peak Power (off-grid) 10s	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	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 to + 60℃, > 45℃ Derating		
Permissible Ambient Humidity	5% to 95%		
Permissible Altitude	< 3000 m		
Noise	≤ 55dB		
Ingress Protection(IP) Rating	IP 65		
Inverter Topology	Non-isolated		
Over Voltage Category	OVC II (DC), OVC III (AC)		
Surge	TYPE II (DC), TYPE II (AC)		
Cabinet Size (WxHxD)	422 mm × 658 mm × 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	IEC / EN 62109-1, IEC / EN 62109-2		
EMC Standard	IEC / EN 61000-6-1/2		

SI SERIES

PV String Inverter

Three Phase

5kW 6kW 8kW 10kW 15kW 20kW 25kW

High-Efficiency

Max.efficiency up to 98.7%

Max.150% PV oversizing, 110%AC overloading output

Low startup voltage and wide voltage range

2 MPPT design with smart MPPT algorithm

Safe & Reliable

IP65 protection

AI powered AFCI protection (optional)

Multiple protections levels

Build-in SPD type II

Aluminum unibody housings structure

Smart

Smart IV curve scaning

Multiple monitoring methods supported (Optional: Wi-Fi / LAN / GPRS)

Built-in export power control

Remote firmware upgrade with simple operation

Model	SI-3P5K-Y1	SI-3P6K-Y1	SI-3P8K-Y1	SI-3P10K-Y1	SI-3P15K-Y1	SI-3P20K-Y1	SI-3P25K-Y1
	PV Input Data						
Max. DC Power (W)	7500	9000	12000	15000	22500	30000	37500
Max. DC Voltage (V)	1100						
MPPT Voltage Range (V)	150 - 1000						
MPPT Full Power Voltage Range (V)	200 - 850		300 - 850	500 - 850			
Rated Input Voltage (V)	620						
Start-up Voltage (V)	150						
Max. Input Current (A)	15 x 2				20 + 30	32 x 2	
Max. Short Current (A)	25 x 2				30 + 48	48 x 2	
No. of MPP Tracker / No. of PV String	2 / 2				2 / 3	2 / 4	
Input Connector Type	MC4						
	AC Output Data						
Max. Output Power (VA)	5500	6600	8800	11000	16500	22000	27500
Nominal Output Power (W)	5000	6000	8000	10000	15000	20000	25000
Max. Output Current (A)	8.5	10.5	13.5	13.5	27	32	40
Nominal Output Voltage (V)	3P + N + PE / 3P + PE 230 / 400						
Grid Voltage Range	260 Vac - 519 Vac (according to local standard)						
Nominal Output Frequency (Hz)	50 / 60						
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	98.3%			98.70%	98.70%	98.75%	98.75%
Euro Efficiency	98%	98.05%		98.23%	98.23%	98.35%	98.35%
	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 Scaning	YES						
Quick Arc Fault Circuit interruption	Optional						
	General Data						
Dimensions (W x H x D, mm)	370 x 510 x 167		370 x 510 x 192	370 x 535 x 192	370 x 535 x 192	370 x 535 x 192	370 x 535 x 192
Weight (kg)	16				17	19	
Protection Degree	IP66						
Enclosure Material	Aluminum						
Ambient Temperature Range (℃)	-25 to 60						
Humidity Range	0 - 100%						
Topology	Transformerless						
Communication Interface	RS485 / WiFi / Wire Ethernet / GPRS (optional)						
Cooling Concept	Intelligent fan cooling						
Noise Emission (db)	<30				<40		<51
Night Power Consumption (W)	<1						
Max. Operation Altitude (m)	≤4000						
	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						

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
IP65 protection，not afraid of any environment

Smart O&M

Smart IV curve scaning，fast and accurate debugging

Multiple monitoring methods supported

APP intelligent O&M, real time dynamic update

String Inverter

3-Phase | 4 MPPTs

30kW | 36kW | 40kW | 50kW | 60kW

M	SI-3P30K-Y1	SI-3P36K-Y1	SI-3P40K-Y1	SI-3P50K-Y1	SI-3P60K-Y1
PV Input Data					
Max. DC Power (W)	45000	45000	60000	75000	90000
Max. DC Voltage (V)	1100				
MPPT Voltage Range (V)	200 - 1000				
MPPT Full Power Voltage Range (V)	500 - 850				
Rated Input Voltage (V)	620				
Start-up Voltage (V)	200				
Max. Input Current (A)	38 × 2	38 × 2		40 × 3	38 × 4
Max. Short Current (A)	48 × 2	48 × 2		48 × 3	48 × 4
No. of MPP Tracker / No. of PV String	2 / 5	2 / 5		3 / 7	4 / 8
Input Connector Type	MC4				
AC Output Data					
Max. Output Power (VA)	33000	39600	44000	55000	66000
Nominal Output Power (W)	30000	36000	40000	50000	60000
Max. Output Current (A)	48	60	65	80	96
Nominal Output Voltage (V)	3P + N + PE / 3P + PE 230 / 400				
Grid Voltage Range	260 Vac - 519 Vac (according to local standard)				
Nominal Output Frequency (Hz)	50 / 60				
Grid Frequency Range	45 - 55 Hz / 55 - 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	98.50%	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 Scaning	YES				
Quick Arc Fault Circuit Interruption	Optional				
General Data					
Dimensions (W x H x D, mm)	450 x 485 x 210	710 x 470 x 236			
Weight (kg)	26	44			51
Protection Degree	IP65				
Enclosure Material	Aluminum				
Ambient Temperature Range (°C)	-25 to 60				
Humidity Range	0 - 100%				
Topology	Transformerless				
Communication Interface	RS485 / WiFi / Wire Ethernet / GPRS (optional)				
Cooling Concept	Intelligent fan cooling				
Noise Emission (db)		<51		<55	
Night Power Consumption (W)	<1				
Max. Operation Altitude (m)	≤4000				
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

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

IP68 cooling fan，support long-term work in harsh environment

Smart O&M

Smart IV curve scaning，fast and accurate debugging

Multiple monitoring methods supported

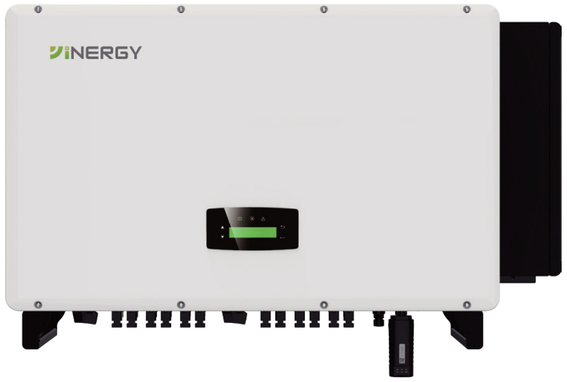
Remote firmware upgrade with simple operation

String Inverter

3-Phase | 6 MPPTs

70kW | 75kW | 80kW

90kW | 100kW | 110kW



	SI-3P70K-Y1	SI-3P75K-Y1	SI-3P80K-Y1	SI-3P90K-Y1	SI-3P100K-Y1	SI-3P110K-Y1
	PV Input Data					
Max. DC Power (W)	105000	112500	120000	135000	150000	165000
Max. DC Voltage (V)	1100					
MPPT Voltage Range (V)	200 - 1000					
MPPT Full Power Voltage Range (V)	500 - 850					
Rated Input Voltage (V)	620					
Start-up Voltage (V)	200					
Max. Input Current (A)	38 × 6					
Max. Short Current (A)	48 × 6					
No. of MPP Tracker / No. of PV String	6 / 12					
Input Connector Type	MC4					
	AC Output Data					
Max. Output Power (VA)	77000	82500	88000	99000	110000	110000
Nominal Output Power (W)	70000	75000	80000	90000	100000	110000
Max. Output Current (A)	111	120	127	143	158	158
Nominal Output Voltage (V)	3P + N + PE / 3P + PE 230 / 400					
Grid Voltage Range	260 Vac - 519 Vac (according to local standard)					
Nominal Output Frequency (Hz)	50 / 60					
Grid Frequency Range	45 - 55 Hz / 55 - 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	98.7%					
Euro Efficiency	98.30%				98.40%	
	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 Scaning	YES					
Quick Arc Fault Circuit Interruption	Optional					
	General Data					
Dimensions (W x H x D, mm)	979 x 610 x 310					
Weight (kg)	72			76		
Protection Degree	IP66					
Enclosure Material	Aluminum					
Ambient Temperature Range (°C)	-25 to 60					
Humidity Range	0 - 100%					
Topology	Transformerless					
Communication Interface	RS485 / WiFi / Wire Ethernet / GPRS (optional)					
Cooling Concept	Intelligent fan cooling					
Noise Emission (db)	<55			<60		
Night Power Consumption (W)	<1					
Max. Operation Altitude (m)	≤4000					
	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					

NOVA SERIES

All-in-one ESS

ESS-2000

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 > 8000 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.

Model	ESS-2000
Rated Capacity	1000 W / 2009 Wh
	PV Input
PV Maximum Input Power	550 W
Max. PV Array Open Circuit Voltage	60 VDC ③
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	> 8000 Cycles
	AC Input
Nominal voltage	208 / 220 / 230 / 240; L + N + PE
Voltage Range	90 ~ 280 Vac ± 5 Vac (normal mode)
Frequency	50 / 60 Hz ± 5 Hz
Max. Input Power	1500W (Including Bypass, AC charge Max. 1000W)
	AC Output *2
Rated Capacity	1000 W
Max. Output Power	1000 W
Waveform	Pure Sine Wave
Output Voltage	230 Vac ± 5 Vac
Nominal Frequency	50/60 Hz
Switching Time	≤20 ms
	DC Output
USB-A	4 channels, 5Vdc/1.5A per channel
USB-C	1 channel, 5/9/12/15/20Vdc, 3A 60W Max
DC5521	4 channels, 12Vdc/2.5A
	Others
Operating Temperature	-10 ℃ ~ 50 ℃ (When charging, temperature must not be below 0℃)
Dimensions (D*W*H)	160 × 400 × 250 mm
Net Weight	18.7 kg
Ingress Protection	IP21
Operating Temperature Range	5% ~ 95% (Non-condensing)
Storage Temperature	AC input/output UVP/OVP, Battery UVP/OVP, AC Output OLP/SCP, OTP

① Support professional cigarette lighter connection.(optional)

② Africa and restricted areas

③ The PV Max. Input Open-circuit Voltage shall not exceed 60 Vdc. Damage caused by exceeding this limit is not covered under warranty, and the company assumes no liability.

④ Available with or without PayGo, and in UK, EU, or Chinese socket versions.

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	Dongle-WL
Remote Communication Interface	4G (Domestic)	2.4G WiFi	2.4G WiFi + LAN
Satellite Positioning	<20m (Optional)	— —	— —
Antenna Options		Build in antenna	
Rated Input Voltage	DC 5-12 V	DC 5-12 V	DC 12V±10%
Rated Power	3.5 W	1.5 W	3.5 W
SIM	Chip card / MicroSIM	— —	— —
Data Storage	8M Flash	8M Flash	10M Flash
Working Temperature	-40℃ ~ +85℃	-40℃ ~ +85℃	-30℃ ~ +75℃
Working Humidity (No condensation)	< 90% (No condensation)	< 90% (No condensation)	5%-95% (No condensation)
Numbers of Connectedinverters		1	
Interval of Data Upload		5 Minutes (1-5 Minutes optional)	
User Configuration	Bluetooth / APP	Bluetooth / APP / Web / OTA	OTA / Web / APP
Firmware Upgrade	OTA	OTA / Web	OTA / Web / APP
Real-time Control		Yes	
Breakpoint Transmission		Yes	
Outage Reminder		Optional	

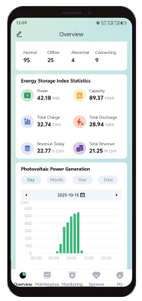
Yinergy Cloud

IOS | Android | Mac Os | Windows

Real Time Monitoring
- Easy understanding status of inverters, modules, and batteries

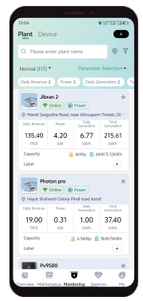
User-Friendly
- Automatically calculate profits based on electricity generation

Fault Alarm
- Quick location of power plant faults



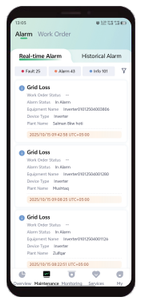
Overview

Get a clear snapshot of all PV generation, energy storage charging/discharging, revenue data, and energy-saving & emission-reduction metrics across all power stations under the current account.



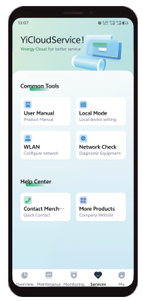
Monitoring

Real-time monitoring of both power stations and individual devices. View overall system status, energy flow diagrams, energy production and consumption, and revenue with full transparency.



Maintenance

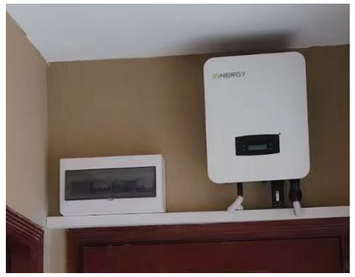
Real-time alarm visibility with quick fault identification, work order creation and tracking, and progress monitoring to eliminate issues and ensure stable and reliable system operation.



Services

Access commonly used tools, user guides, and a help center—offering comprehensive and multidimensional support services.

YINERGY SERVICE CASES



Residential
User Cases