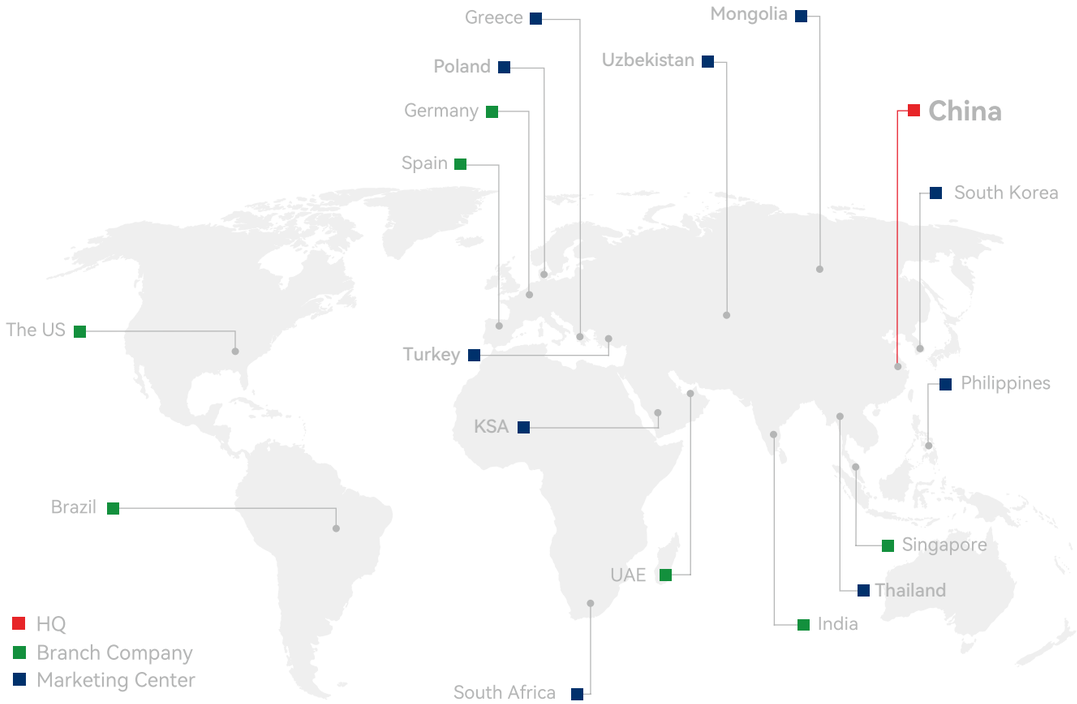
2023.12.12 V1



SINENG

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SINENG

RESIDENTIAL + C&I INVERTERS

A GLOBAL LEADING SUPPLIER OF
PV & ENERGY STORAGE INVERTERS

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SINENG ELECTRIC CO., LTD.

Endless Energy for Limitless Green

ABOUT SINENG

Sineng Electric Co., Ltd. is the global leading supplier of a comprehensive product portfolio including PV inverters and energy storage systems for utility-scale, commercial & industrial, and residential applications, as well as power quality products.

By establishing four R&D centers and leveraging top-notch resources, Sineng's unwavering commitment to technological innovation has enabled more people to access cost-effective, reliable, and sustainable energy. After the three global manufacturing bases being put into operation, the annual production capacity can now reach 40GW. Known for the engineering excellence, rigorous testing standards, and consistent quality, Sineng is a market leader in the industry and ranks Top 8 in the global PV inverter market share.

Providing a wide range of solutions and services across the globe, Sineng is playing an important role in accelerating the global energy transition, striving to build a greener future.

40GW
Annual Production Capacity

4
R&D Centers

70GW+
Cumulative Shipments

3
Global Manufacturing Bases

SN3.0/4.0/5.0/6.0/8.0/10/12PT

Three Phase PV Inverter/2 MPPTs

Safe & Reliable

IP66 protection & C5 anti-corrosion rating
Type II SPD, both DC & AC sides
Built-in arc-fault circuit-interrupter

High Yield

Max. efficiency up to 98.5%
Up to 16A, max MPPT input current
1.1 times continuous output overload

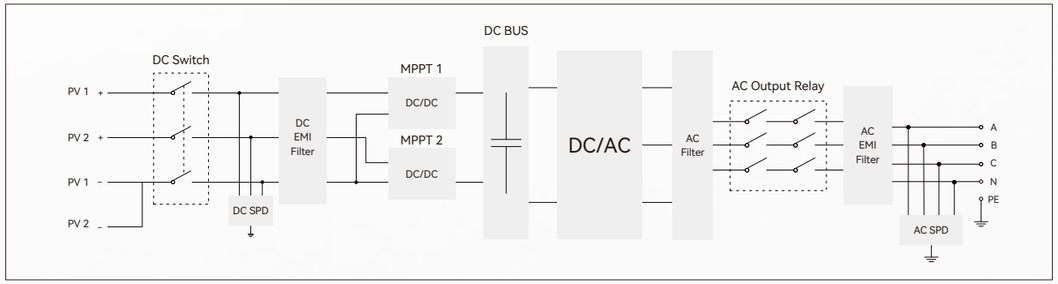
High-Performance Management

Accurate string current detection
Support export power limit
Local & remote maintenance

User-Friendly Design

Fanless design for quiet operation
Optional OLED screen
Quickly set up smart monitoring via APP

Circuit Diagram



Model	SN3.0PT	SN4.0PT	SN5.0PT	SN6.0PT	SN8.0PT	SN10PT	SN12PT
Input (PV)							
Max. PV input voltage	1100V						
Recommended max. PV power (STC)	4.5kWp	6kWp	7.5kWp	9kWp	12kWp	15kWp	18kWp
Nominal PV input voltage	620V						
MPPT operating voltage range	140V~1000V						
Full power MPPT voltage range	190V~850V	190V~850V	190V~850V	225V~850V	310V~850V	375V~850V	450V~850V
Startup PV voltage	180V						
Number of PV inputs	2 (2 MPPTs, 1/1)						
Max. current per MPPT	16A						
Max. short circuit current per MPPT	25A						
Output (grid)							
Nominal output power	3kW	4kW	5kW	6kW	8kW	10kW	12kW
Max. output apparent power	3.3kVA	4.4kVA	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Max. output current	4.8A	6.4A	8A	9.6A	12.8A	15.9A	19.1A
Nominal grid voltage	3L/N/PE, 230V/400V						
Grid voltage range	320V~480V (According to local standards)						
Nominal grid frequency	50/60Hz						
Power factor range	0.8leading~0.8lagging						
Harmonic (THD)	<3%						
Efficiency							
Max. efficiency	98.00%	98.00%	98.10%	98.20%	98.30%	98.40%	98.50%
EU efficiency	97.60%	97.70%	97.70%	97.80%	98.00%	98.10%	98.20%
General data							
Display mode	LED, OLED(optional)						
Communication port	RS485,WIFI/4G/Ethernet						
Weight	14.5kg	14.5kg	14.5kg	14.5kg	14.5kg	15kg	15kg
Dimensions (W*H*D)	530*465*165mm						
Max. operating altitude	4000m(>3000m derating)						
Cooling method	Natural						
Humidity	0~100%						
Operating temperature	-25~60℃						
Protection level	IP66						
Topology	Transformerless						
Self-consumption at night	< 1W						
Protection							
Leakage current protection	Yes						
Anti-island protection	Yes						
DC reverse protection	Yes						
AC short circuit protection	Yes						
PV string current detection	Yes						
PID recovery	Optional						
DC switch	Yes						
Arc-fault circuit-interrupter	Yes						
Surge protection	DC II/AC II						
Insulation monitoring	Yes						
Over-voltage protection	AC III/DC II						

IEC 62109-1/2, IEC61000-6, IEC62116, IEC61727, IEC61683, IEC60068, IEC61000-3, EN50549-1, VDE4105, C10/11, CEI-0-21, PTPiREE

SN12(X)/15/17/20/25PT

Three Phase PV Inverter/2 MPPTs

Safe & Reliable

IP66 protection & C5 anti-corrosion rating
Type II SPD, both DC & AC sides
Built-in arc-fault circuit-interrupter

High Yield

Max. efficiency up to 98.5%
Compatible with bifacial PV modules
1.1 times continuous output overload

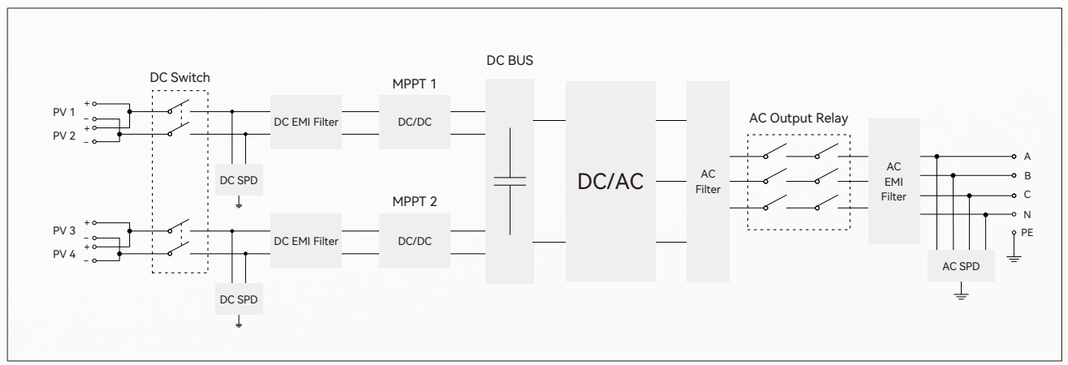
High-Performance Management

Accurate string current detection
Support export power limit
Local & remote maintenance

User-Friendly Design

Fanless design for quiet operation
Optional OLED screen
Quickly set up smart monitoring via APP

Circuit Diagram



Model	SN12PT-X	SN15PT	SN17PT	SN20PT	SN25PT
Input (PV)					
Max. PV input voltage	1100V				
Recommended max. PV power (STC)	18kWp	22.5kWp	25kWp	30kWp	37.5Wp
Nominal PV input voltage	620V				
MPPT operating voltage range	140V~1000V				
Full power MPPT voltage range	375V~850V	470V~850V	470V~850V	470V~850V	470~850V
Startup PV voltage	180V				
Number of PV inputs	3 (2 MPPTs, 2/1)	3 (2 MPPTs, 2/1)	4 (2 MPPTs, 2/2)	4 (2 MPPTs, 2/2)	4 (2 MPPTs, 2/2)
Max. current per MPPT	32A/20A	32A/20A	32A/32A	32A/32A	40A/32A
Max. short circuit current per MPPT	50A/25A	50A/25A	50A/50A	50A/50A	50A/50A
Output (grid)					
Nominal output power	12kW	15kW	17kW	20kW	25kW
Max. output apparent power	13.2kVA	16.5kVA	18.7kVA	22kVA	27.5kVA
Max. output current	19.1A	23.9A	27.1A	31.9A	39.9A
Nominal grid voltage	3L/N/PE, 230V/400V				
Grid voltage range	320V~480V (According to local standards)				
Nominal grid frequency	50/60Hz				
Power factor range	0.8leading~0.8lagging				
Harmonic (THD)	<3%				
Efficiency					
Max. efficiency	98.50%				
EU efficiency	98.10%				
General data					
Display mode	LED, OLED(optional)				
Communication port	RS485,WIFI/4G/Ethernet				
Weight	23kg	23kg	24kg	25kg	25kg
Dimensions (W*H*D)	580*430*270mm				
Max. operating altitude	4000m(>3000m derating)				
Cooling method	Natural				
Humidity	0~100%				
Operating temperature	-25~60℃				
Protection level	IP66				
Topology	Transformerless				
Self-consumption at night	< 1W				
Protection					
Leakage current protection	Yes				
Anti-island protection	Yes				
DC reverse protection	Yes				
AC short circuit protection	Yes				
PV string current detection	Yes				
PID recovery	Optional				
DC switch	Yes				
Arc-fault circuit-interrupter	Yes				
Surge protection	DC II/AC II				
Insulation monitoring	Yes				
Over-voltage protection	AC III/ DC II				

IEC 62109-1/2, IEC61000-6, IEC62116, IEC61727, IEC61683, IEC60068, IEC61000-3, EN50549-1, VDE4105, C10/11,CEI-0-21, PTPiREE, ORDINANCE No.140

SN25(X)/30/33/36/40PT

Three Phase PV Inverter/ 3 MPPTs

Safe & Reliable

IP66 protection & C5 anti-corrosion rating
Type II SPD, both DC & AC sides
Built-in arc-fault circuit-interrupter

High Yield

Built-in PID recovery function
Compatible with bifacial PV modules
1.1 times continuous output overload

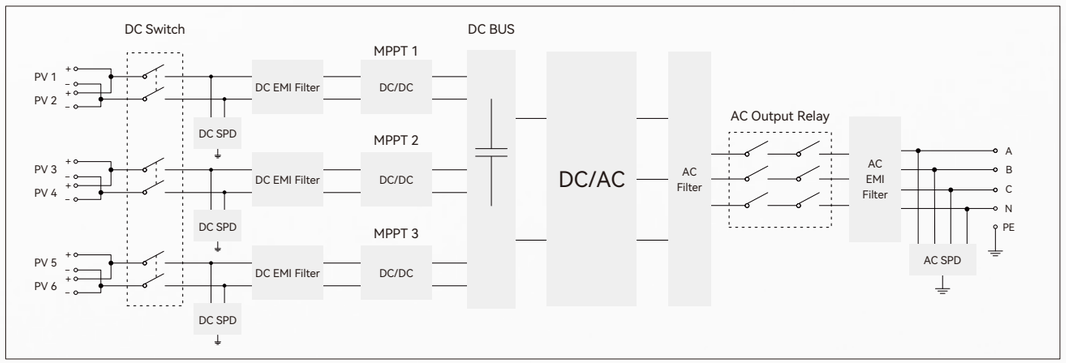
High-Performance Management

Accurate string current detection
Support export power limit
Local & remote maintenance

User-Friendly Design

Convenient handle design
Optional OLED screen
Quickly set up smart monitoring via APP

Circuit Diagram



Model	SN25PT-X	SN30PT	SN33PT	SN36PT	SN40PT
Input (PV)					
Max. PV input voltage	1100V				
Recommended max. PV power (STC)	37.5kWp	45kWp	49.5kWp	54kWp	60kWp
Nominal PV input voltage	620V				
MPPT operating voltage range	160V~1000V				
Full power MPPT voltage range	520~850V				
Startup PV voltage	180V				
Number of PV inputs	6 (3 MPPTs, 2/2/2)				
Max. current per MPPT	32A/32A/32A	32A/32A/32A	32A/32A/32A	40A/32A/32A	40A/32A/32A
Max. short circuit current per MPPT	50A/50/50A				
Output (grid)					
Nominal output power	25kW	30kW	33kW	36kW	40kW
Max. output apparent power	27.5kVA	33kVA	36.3kVA	39.6kVA	44kVA
Max. output current	39.9A	47.8A	52.6A	57.4A	63.8A
Nominal grid voltage	3L/N/PE, 230V/400V				
Grid voltage range	320V~480V (According to local standards)				
Nominal grid frequency	50/60Hz				
Power factor range	0.8leading~0.8lagging				
Harmonic (THD)	<3%				
Efficiency					
Max. efficiency	98.60%				
EU efficiency	98.30%				
General data					
Display mode	LED, OLED(optional)				
Communication port	RS485,WIFI/4G/Ethernet				
Weight	32kg				
Dimensions (W*H*D)	585*490*260mm				
Max. operating altitude	4000m(>3000m derating)				
Cooling method	Smart fan cooling				
Humidity	0~100%				
Operating temperature	-25~60℃				
Protection level	IP66				
Topology	Transformerless				
Self-consumption at night	< 1W				
Protection					
Leakage current protection	Yes				
Anti-island protection	Yes				
DC reverse protection	Yes				
AC short circuit protection	Yes				
PV string current detection	Yes				
PID recovery	Yes				
DC switch	Yes				
Arc-fault circuit-interrupter	Yes				
Surge protection	DC II/AC II				
Insulation monitoring	Yes				
Over-voltage protection	AC III/DC II				

IEC 62109-1/2, IEC61000-6, IEC62116, IEC61683, IEC61727, IEC60068, IEC61000-3, EN50549-1, VDE4105, C10/11, VDE0126/VFR2019, CEI-0-21, BIS/CEA, KSC8565, RD1699/UNE217001/UNE206007/NTS Type A, TOR Type A&B, PTPiREE, ORDINANCE No.140

SN50/60PT

Three Phase PV Inverter/5 MPPTs

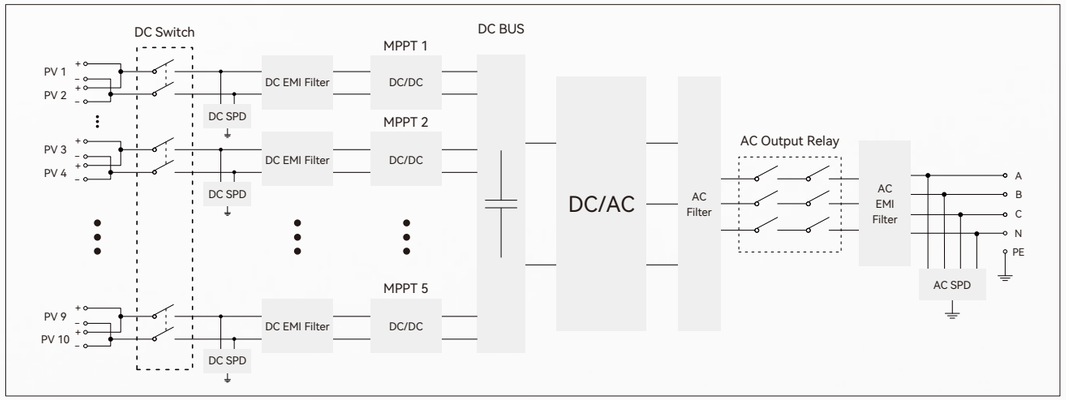
Safe & Reliable
IP66 protection & C5 anti-corrosion rating
Type II SPD, both DC & AC sides
Built-in arc-fault circuit-interrupter

High Yield
Built-in PID recovery function
Compatible with bifacial PV modules
1.1 times continuous output overload

High-Performance Management
Accurate string current detection
Support export power limit
Local & remote maintenance

User-Friendly Design
Convenient handle design
Optional OLED screen
Quickly set up smart monitoring via APP

Circuit Diagram



Model	SN50PT	SN60PT
Input (PV)		
Max. PV input voltage	1100V	
Recommended max. PV power (STC)	75kWp	90kWp
Nominal PV input voltage	620V	
MPPT operating voltage range	200V~1000V	
Full power MPPT voltage range	520V~850V	
Startup PV voltage	250V	
Number of PV inputs	10（5 MPPTs, 2/2/2/2/2)	
Max. current per MPPT	32A/32A/32A/32A/32A	32A/32A/32A/32A/40A
Max. short circuit current per MPPT	50A/50A/50A/50A/50A	
Output (grid)		
Nominal output power	50kW	60kW
Max. output apparent power	55kVA	66kVA
Max. output current	79.4A	95.7A
Nominal grid voltage	3L/N/PE, 230V/400V	
Grid voltage range	320V~480V (According to local standards)	
Nominal grid frequency	50/60Hz	
Power factor range	0.8leading~0.8lagging	
Harmonic (THD)	<3%	
Efficiency		
Max. efficiency	98.60%	
EU efficiency	98.30%	
General data		
Display mode	LED, OLED(optional)	
Communication port	RS485,WIFI/4G/Ethernet	
Weight	50kg	
Dimensions (W*H*D)	698*594*274mm	
Max. operating altitude	4000m (>3000m derating)	
Cooling method	Smart fan cooling	
Humidity	0~100%	
Operating temperature	-25~60℃	
Protection level	IP66	
Topology	Transformerless	
Self-consumption at night	< 1W	
Protection		
Leakage current protection	Yes	
Anti-island protection	Yes	
DC reverse protection	Yes	
AC short circuit protection	Yes	
PV string current detection	Yes	
PID recovery	Yes	
DC switch	Yes	
Arc-fault circuit-interrupter	Yes	
Surge protection	DC II/AC II	
Insulation monitoring	Yes	
Over-voltage protection	AC III/DC II	

IEC 62109-1/2, IEC61000-6, IEC62116, IEC61683, IEC61727, IEC60068, IEC61000-3. EN50549-1, VDE4105, C10/11, VDE0126/VFR2019, CEI-0-16/21, BIS/CEA, KSC8565, RD1699/UNE217001/UNE206007/NTS Type A, TOR Type A&B, PTPiREE: 2021, MEA/PEA, NRS097-2, ORDINANCE No.140

SP-120K-BL

Three Phase PV Inverter/ 10 MPPTs

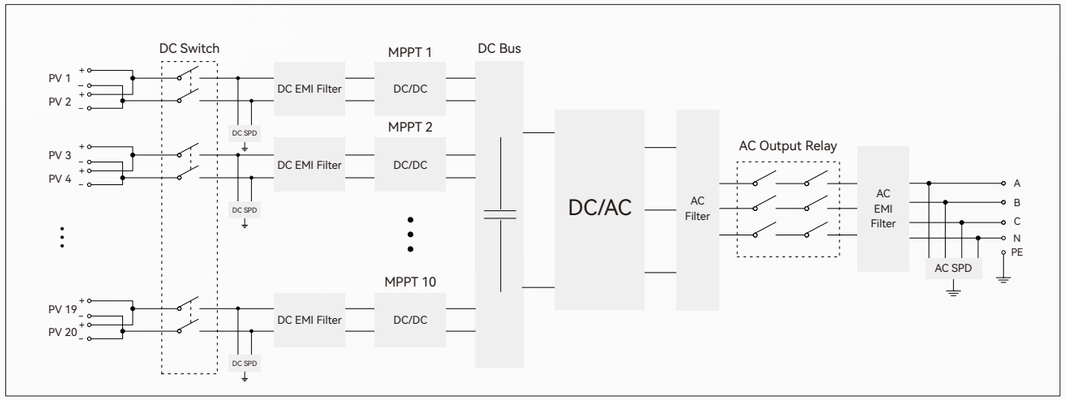
Safe & Reliable
IP66 protection & C5 anti-corrosion rating
Type II SPD, both DC & AC sides

High Yield
Built-in PID recovery function
1.1 times continuous output overload

High - Performance Management
Accurate string current detection
Local & remote maintenance

User - Friendly Design
Multiple LED lights display
Quickly set up smart monitoring via APP

Circuit Diagram



Model	SP-120K-BL
Input (PV)	
Max. PV input voltage	1100V
Recommended max. PV power (STC)	165kWp
Nominal PV input voltage	600V
MPPT operating voltage range	200V~1000V
Full power MPPT voltage range	520V~850V
Startup PV voltage	500V
Number of PV inputs	20 (10 MPPTs, 10*2)
Max. current per MPPT	30A
Max. short circuit current per MPPT	45A
Output (grid)	
Nominal output power	110kW
Max. output apparent power	121kVA@35℃, 110kVA@45℃, 100kVA@50℃
Max. output current	184A
Nominal grid voltage	3L/PE or 3L/N/PE, 230V/400V
Grid voltage range	320V~480V (According to the local standards)
Nominal grid frequency	50/60Hz
Power factor range	0.8leading~0.8lagging
Harmonic (THD)	<3%
Efficiency	
Max. efficiency	98.80%
EU efficiency	98.50%
General data	
Display mode	LED
Communication port	RS485, WIFI/4G/Ethernet
Weight	85kg
Dimensions (W*H*D)	1018*630*339mm
Max. operating altitude	4000m（>3000m derating）
Cooling method	Smart fan cooling
Humidity	0~100%
Operating temperature	-25~60℃
Protection level	IP66
Topology	Transformerless
Self-consumption at night	< 3.5W
Protection	
Leakage current protection	Yes
Anti-island protection	Yes
DC reverse protection	Yes
AC short circuit protection	Yes
PV string current detection	Yes
PID recovery	Yes
Arc-fault circuit-interrupt	Optional
DC switch	Yes
Surge protection	DC II/AC II
Insulation monitoring	Yes
Over-voltage protection	AC III/DC II

IEC 62109-1/2, IEC61000-6, IEC62116, IEC61683, IEC61727, IEC60068, IEC61000-3, EN50549-1/2, VDE4105, C10/11, VDE0126/VFR2019, KSC8565, CEI-0-21, NRS097, ,DEWA, PEA/MEA, BIS/CEA

SN100/110/125PT

Three Phase PV Inverters/ Up to 5 MPPTs

Safe & Reliable

IP66 protection & C5 anti-corrosion rating
Type II SPD, both DC & AC sides
Built-in arc-fault circuit-interrupter

High Yield

Built-in PID recovery function
Compatible with bifacial PV modules
1.1 times continuous output overload

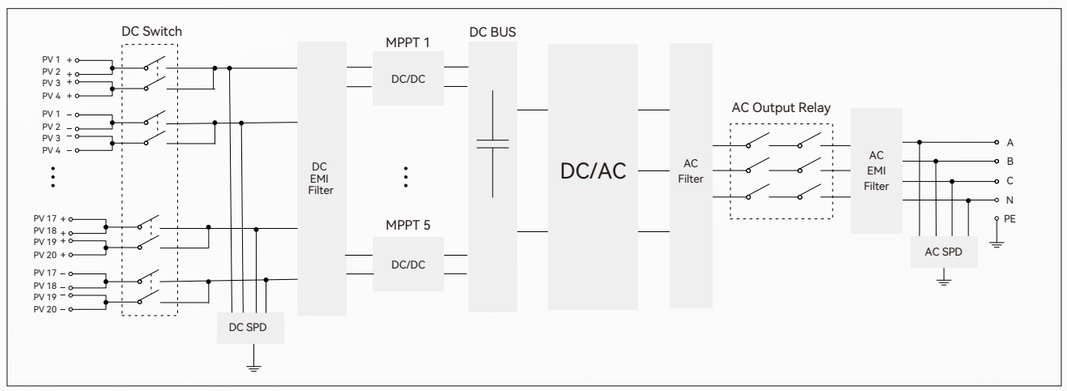
High-Performance Management

Accurate string current detection
Integrated silicon carbide components
Local & remote maintenance

User-Friendly Design

Fuseless design-built in smart switch-disconnectors
Compatible with Al and Cu AC cables
Reversed battery terminal

Circuit Diagram



Model	SN100PT	SN110PT	SN125PT
Input (PV)			
Max. PV input voltage	1100V		
Recommended max. PV power (STC)	150kWp	165kWp	187.5kWp
Nominal PV input voltage	620V		
MPPT operating voltage range	200V~1000V		
Full power MPPT voltage range	550V~850V		
Startup PV voltage	250V		
Number of PV inputs	16 （4 MPPTs, 4/4/4/4)	20 （5 MPPTs, 4/4/4/4/4)	20 （5 MPPTs, 4/4/4/4/4)
Max. current per MPPT	64A/64A/64A/64A	64A/64A/64A/64A/64A	64A/64A/64A/64A/64A
Max. short circuit current per MPPT	100A/100A/100A/100A	100A/100A/100A/100A/100A	100A/100A/100A/100A/100A
Output (grid)			
Nominal output power	100kW	110kW	125kW
Max. output apparent power	110kVA@35℃,100kVA@45℃,90kVA@50℃	121kVA@35℃,110kVA@45℃,100kVA@50℃	137.5kVA@35℃,125kVA@45℃,110kVA@50℃
Max. output current	159.4A	175.4A	199.3A
Nominal grid voltage	3L/PE or 3L/N/PE, 230V/400V		
Grid voltage range	320V~480V (According to local standards)		
Nominal grid frequency	50/60Hz		
Power factor range	0.8leading~0.8lagging		
Harmonic (THD)	<3%		
Efficiency			
Max. efficiency	99.00%		
EU efficiency	98.50%		
General data			
Display mode	LED, APP		
Communication port	RS485, WIFI/4G/Ethernet, PLC(optional)		
Weight	75kg		
Dimensions (W*H*D)	1022*750*362 mm		
Max. operating altitude	4000m(>3000m derating)		
Cooling method	Smart fan cooling		
Humidity	0~100%		
Operating temperature	-25~60℃		
Protection level	IP66		
Topology	Transformerless		
Self-consumption at night	< 3.5W		
Protection			
Leakage current protection	Yes		
Anti-island protection	Yes		
DC reverse protection	Yes		
AC short circuit protection	Yes		
PV string current detection	Yes		
PID recovery	Optional		
DC switch	Yes		
Arc-fault circuit-interrupter	Yes		
Surge protection	DC II/AC II		
Insulation monitoring	Yes		
Over-voltage protection	AC III/DC II		

IEC 62109-1/2, IEC61000-6, IEC62116, IEC61727, IEC61683, IEC60068, IEC61000-3. EN50549-1/2, VDE4105/4110/4120, C10/11, CEI-0-16/21, BIS/CEA, NRS097-2
KSC8565, TOR Type A&B, PTPiREE , MEA/PEA

SP-275K-H1

SP Series String Inverter

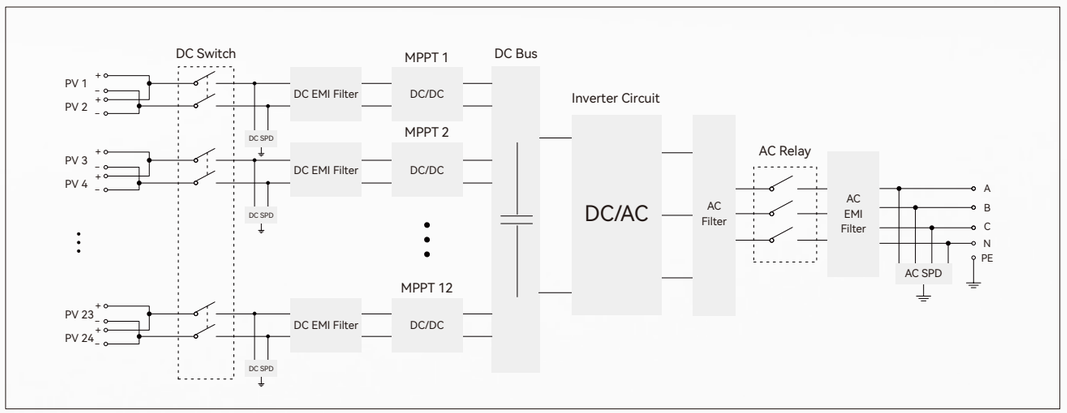
More power generation
- Max. efficiency 99%, Euro efficiency 98.8%
- 12MPPTs for tracking maximum PV power
- Supports bifacial PV modules with max. PV current 20A

Low system cost
- Up to 24 PV strings
- Support aluminum cable access, saving cable costs
- Support PLC communication, save communication cable

High reliability
- Cooling fan with IP68 protection level
- Integrated string monitoring function
- Standard connection terminal for quick installation

Grid friendly
- LVRT and HVRT function
- Active & Reactive power control

Circuit Diagram



Model	SP-275K-H1
Input (DC)	
Max. PV input voltage	1500V
MPPT Max. input current	40A*12
Rated input voltage	1080V
MPPT voltage range	500~1500V
MPPT voltage range for nominal power	880~1300V
Number of MPPT trackers	12
Max. number of PV strings	24
Output (AC)	
Rated output power	275kW@30℃/250kW@45℃/225kW@50℃
Max. output power	275kW
Rated grid voltage	800V
Grid voltage range	680~880V
Max. output current	198.5A
Rated grid frequency/range	50Hz/45~55Hz, 60Hz/55~65Hz
Output current harmonic (at nominal power)	<3%
Power factor at nominal power/range	>0.99/0.8leading to 0.8lagging
Protection	
DC reverse connection protection	Yes
Over-voltage protection	DC Type II/AC Type II
Leakage current protection	Yes
Grid monitoring	Yes
Insulation monitoring	Yes
Anti-island protection	Yes
Efficiency	
Max. efficiency	99.0%
EU efficiency	98.8%
General Data	
Isolation method	Transformerless
Self-consuming in night	<3.5W
Protection level	IP66
Temperature	-30℃ ~ +60℃
Allowed humidity (non condensing)	0-100%
Cooling mode	Temperature controlled forced air cooling
Max.operating altitude	4000m
Communication port	Standard: PLC, Optional: RS485
Dimensions (W*H*D)	1180×733×350mm
Weight	130kg

IEC 62109, IEC 61727, IEC 61683, IEC 62116, IEC 60068,IEC61000,IEC60529,EN50530,EN62920,EN50549,PO.12.2 NTS631,VDE 0126 VFR+UTE,C15-712-1,CEI 0-16,C10/11

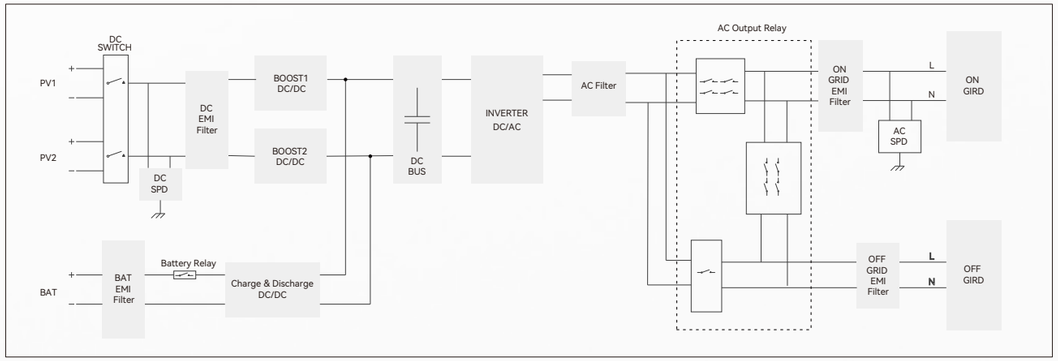
SN3.0/3.6/4.0/5.0/6.0HS

Single Phase Hybrid Inverter/2 MPPTs

Features

- 85~460V Wide battery voltage range
- Built-in multiple operating modes
- Switch time to EPS mode within 10ms
- Extra load capacity under EPS mode
- DC/AC ratio up to 1.5
- Built-in arc-fault circuit-Interrupter
- Fanless & slient design
- Intelligent monitoring & maintenance

Circuit Diagram



Model	SN3.0HS	SN3.6HS	SN4.0HS	SN5.0HS	SN6.0HS
Input (PV)					
Recommended max. PV power (STC)	4500Wp	5400Wp	6000Wp	7500Wp	9000Wp
Max. PV input voltage	600V				
Startup voltage	100V				
Nominal PV input voltage	360V				
MPPT operating voltage range	90V~560V				
Number of PV inputs	2 (2MPPTs, 1/1)				
Max. input current per MPPT	16A				
Max. short circuit current per MPPT	25A				
Battery parameter					
Battery type	Li-on				
Battery voltage range	85V~460V				
Max. charge/discharge current	25A/25A				
Max. charge/discharge power	3000W/3000W	3680W/3680W	4000W/4000W	5000W/5000W	6000W/6000W
Grid input/output					
Nominal grid output power	3000W	3680W	4000W	5000W	6000W
Max. grid output power	3000VA	3680VA	4000VA	5000VA	6000VA
Max. grid output current	13A	16A	17.4A	21.7A	26.1A
Max. input power from grid	6000VA	7300VA	8000VA	10000VA	12000VA
Max. input current from grid	26A	32A	34.8A	43.4A	52.3A
Nominal grid voltage	L/N/PE, 230V				
Nominal grid frequency	50/60Hz				
Harmonic(THD)	<3%				
Power factor range	0.8leading~0.8lagging				
Back-up data(EPS mode)					
Rated output power	3000W	3680W	4000W	5000W	6000W
Peak output power	5000VA, 60s	5000VA, 60S	5000VA, 60s	7500VA, 60s	7500VA, 60s
Switch time to EPS mode	10ms				
Nominal output voltage	230V				
Nominal output frequency	50/60Hz				
Efficiency					
Max. efficiency	97.60%				
EU efficiency	97.00%				
Protection					
Anti islanding protection	Yes				
Leakage current protection	Yes				
PV reverse protection	Yes				
Short circuit protection	Yes				
Arc-fault circuit-interrupter	Yes				
RSD	Optional				
Surge protection	DC II/AC II				
Battery reverse protection	Yes				
General data					
Dimensions (W*H*D)	470*375*178mm				
Weight	19kg				
Installation method	Wall-mounted				
Topology	Transformerless				
Protection degree	IP65				
Operating temperature	-25 ~ 60℃				
Humidity	0 ~ 100%				
Cooling method	Natural				
Max. operating altitude	4000m (>3000m derating)				
Display	LED+APP				
Communication method	Wifi/4G/Ethernet,RS485,CAN				

IEC 62109-1/2, IEC61000-6,IEC61000-3, IEC62116, IEC61727, IEC61683, IEC60068, EN50549-1, EN62477, C10/11, CEI-0-21, NRS097-2, AS4777-2
RD1699/UNE217001/UNE206007/NTS Type A, ORDINANCE No.140

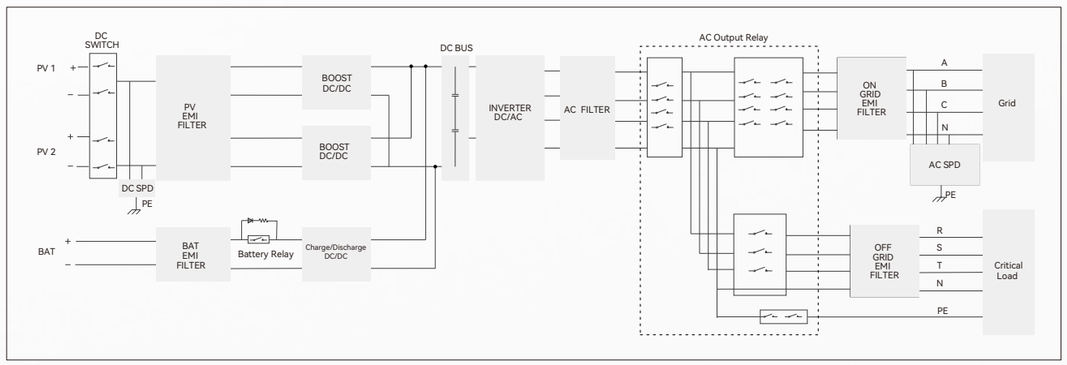
SN5.0/6.0/8.0/10/12/15HT

Three Phase Hybrid Inverter/2 MPPTs

Features

- 160~600V Wide battery voltage range
- Built-in multiple operating modes
- Switch time to EPS mode within 10ms
- Extra load capacity under EPS mode
- Support up to 10 units in parallel
- Built-in arc-fault circuit-Interrupter
- 100% three phase unbalanced output
- Intelligent monitoring & maintenance

Circuit Diagram



Model	SN5.0HT	SN6.0HT	SN8.0HT	SN10HT	SN12HT	SN15HT
Input (PV)						
Recommended max. PV power (STC)	7500Wp	9000Wp	12000Wp	15000Wp	18000Wp	22500Wp
Max. PV input voltage	1000V					
Startup voltage	180V					
Nominal PV input voltage	620V					
MPPT operating voltage range	160V~950V					
Number of PV inputs	2 (2MPPTs, 1/1)				3 (2MPPTs, 2/1)	
Max. input current per MPPT	18A				32A/18A	
Max. short circuit current per MPPT	25A				40A/25A	
Battery parameter						
Battery type	Li-on					
Battery voltage range	160V~600V					
Max. charge/discharge current	25A/25A				30A/30A	
Max. charge/discharge power	7500W/7500W	9000W/9000W	12000W/12000W	15000W/15000W	18000W/18000W	18000W/18000W
Grid input/output						
Nominal grid output power	5000W	6000W	8000W	10000W	12000W	15000W
Max. grid output power	5500VA	6600VA	8800VA	11000VA	13200VA	16500VA
Max. grid output current	8.33A	10A	13.3A	16.7A	20A	25A
Max. input power from grid	7500VA	9000VA	12000VA	15000VA	18000VA	22500VA
Max. input current from grid	11.4A	13.6A	18.2A	22.7A	27.3A	34.1A
Nominal grid voltage	3L/N/PE, 220V/380V or 230V/400V					
Nominal grid frequency	50/60					
Harmonic(THD)	<3%					
Power factor range	0.8leading~0.8lagging					
Back-up data(EPS mode)						
Rated output power	5000W	6000W	8000W	10000W	12000W	15000W
Peak output power	7500VA, 60s	9000VA, 60S	12000VA, 60s	15000VA ,60s	18000VA, 60s	18000VA,60s
Switch time to EPS mode	10ms					
Nominal output voltage	220V/380 Vor 230V/400V					
Nominal output frequency	50/60Hz					
Efficiency						
Max. efficiency	97.80%	98.20%				
EU efficiency	97.20%	97.50%				
Protection						
Anti islanding protection	Yes					
Leakage current protection	Yes					
PV reverse protection	Yes					
Short circuit protection	Yes					
Arc-fault circuit-interrupter	Yes					
RSD	Optional					
Surge protection	DC II/AC II					
Battery reverse protection	Yes					
General data						
Dimensions(W*H*D)	573*535*206mm					
Weight	24.3kg				26.1kg	
Installation method	Wall-mounted					
Topology	Transformerless					
Protection degree	IP66					
Operating temperature	-25 ~ 60℃					
Humidity	0~ 100%					
Cooling method	Natural				Smart fan cooling	
Max. operating altitude	4000m (>3000m derating)					
Display	LED+APP					
Communication method	Wifi/4G/Ethernet,RS485,CAN					

IEC 62109-1/2, IEC61000-6, IEC61000-3, IEC62116, IEC61727, IEC61683, IEC60068, EN50549-1, EN62477, VDE4105, C10/11, CEI-0-21, TOR Type A
PTPiREE: 2021, AS4777-2, PPDS

RHP7.0/10/14/17/21-G1

RHP series HV battery

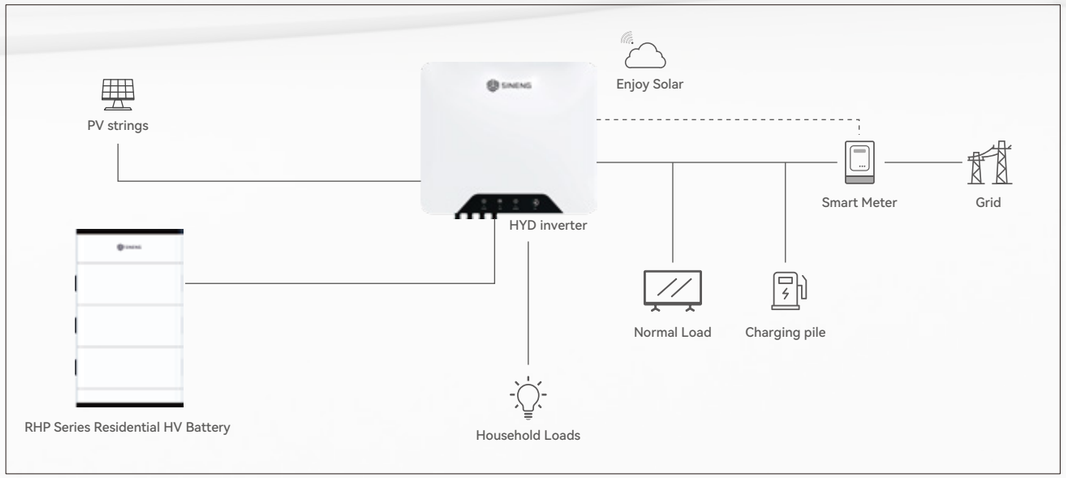
Stacked installation
Easy to transport and install

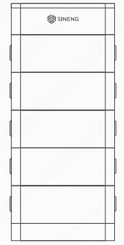
Modular design
Strong scalability of system capacity

Real-time monitoring
Suitable for remote diagnosis and upgrade

High protection level
Support indoor & outdoor installation

System Diagram



Model	RHP7.0-G1	RHP10-G1	RHP14-G1	RHP17-G1	RHP21-G1
Product schematic					
System Parameter					
Battery distribution unit	RHP-BCU-G1				
Battery Module	RHP-BAT37-G1：96V,37AH				
No. of battery modules	2PCs	3PCs	4PCs	5PCs	6PCs
Nominal capacity	7.1kWh	10.66kWh	14.21kWh	17.76kWh	21.31kWh
Usable energy	6.75kWh	10.12kWh	13.50kWh	17kWh	20.24kWh
Operating voltage range	168 ~219V	252 ~ 328V	336 ~ 438V	420 ~ 547V	504 ~ 657V
Nominal voltage	192V	288V	384V	480V	576V
Max. charge/ discharge current	25A/25A	25A/25A	25A/25A	25A/25A	25A/25A
General data					
Dimension (W*H*D)	504*380*700mm	504*380*900mm	504*380*1100mm	504*380*1300mm	504*380*1500mm
Weight	105kg	146kg	187kg	228kg	269kg
Lifecycle	6000				
Max. operating altitude	2000m				
Operating humidity	0-95%				
Operating temperature	Charge：0-50℃；Discharge：-10-50℃				
Communication method	CAN				
Protection level	IP54				
Installation method	Stacking, Floor Mounting				
Max. expansion number	4				

Si-Dongle Data Logger

Efficient Management
Support up to 10 devices

Flexible Networking
Support local & remote monitoring

Easy Installation
Plug & play design

Model	Si-Dongle-S	Si-Dongle-T
System information		
Supported models	SN & SP Series	SN & SP Series
Max. connected devices	2 Units	10 Units
No. of LEDs	3	3
Communication parameters		
Communication method	WIFI	WIFI
User interface	APP/Web	APP/Web
Frequency	2.4GHz(a/b/g/n)	2.4GHz(a/b/g/n)
Data uploading interval	5 Mins(1-5 Mins configurable)	5 Mins (1-5 Mins configurable)
Smart access*	Support	Support
Other functions	Remotely parameters release & Firmware upgrade	Remotely parameters release & firmware upgrade
Electrical parameters		
Operating voltage	5-12Vdc	5-12Vdc
Power consumption	≤3.3W	≤3.3W
General data		
Dimensions (W*H*D)	50*116*35mm	50*116*35mm
Protection degree	IP65	IP65
Operating temperature	-30-60℃	-30~60℃
Operating humidity	0~95%	0~95%
Installation method	Plug & play	Plug & play
Certification	CE	CE

*Smart access: The Data logger can automatically identify the accessed devices, and addressed the devices, no manual setup is required.

Si-Logger Data Logger

Efficient Management
Support up to 32 devices

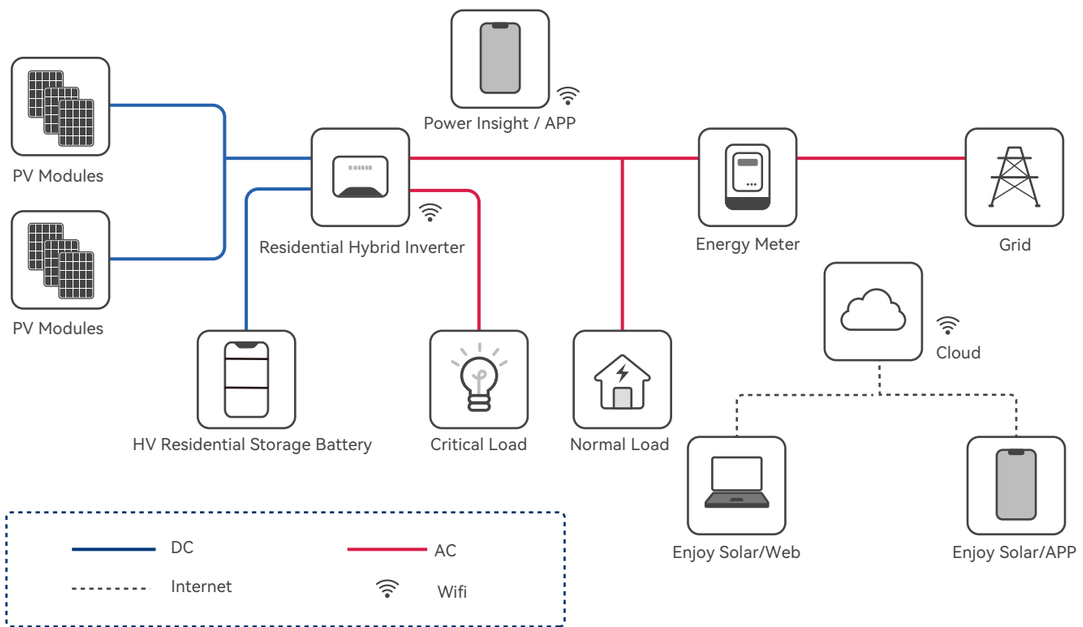
Flexible Networking
Support local & remote monitoring

Multiple Communication Method
Support RS485, Ethernet DI/DO, AI, USB2.0 ports

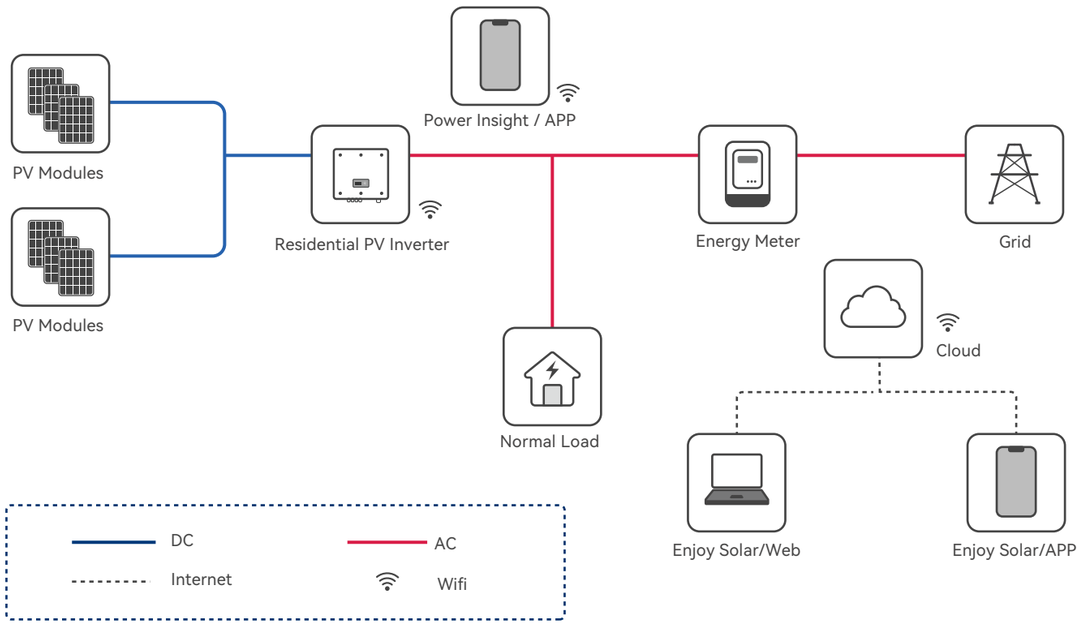
Model	Si-Logger-B
System information	
Supported models	SN & SP series
Max. connected devices	32 Units
No. of LEDs	LED*18 (Power supply*1/RS485*8/4G*2/CAN*2/Internet*2/Heart beats*1)
Communication Parameters	
Communication Methods	Ethernet
User interface	PC
Frequency	2.4GHz(a/b/g/n)
Data Uploading Interval	5 Mins(1-5 Mins Configurable)
Communication ports	RS485*4,Ethernet*2,DI*4,DO*2,AI*4,USB 2.0*1
Communication Protocol	Ethernet: Modbus-TCP,IEC104,IEC61850MMS/GOOSE; RS485: MODBUS-RTU/DL-T645
Smart Access	Support
Third-party Devices	Smart meter, Weather station,Temperature & Humidity sensors
Electrical parameters	
Operating Voltage	24Vdc
Power Comsumption	≤15W
General data	
Protection level	IP20
Operating Temperature	-30~60℃
Humidity	0~95%
Installation Method	Wall Mounted & Rail
Si-Logger Certification	CE

*Smart Access: The Data logger can automatically identify the accessed devices, and addressed the devices, no manual setup is required

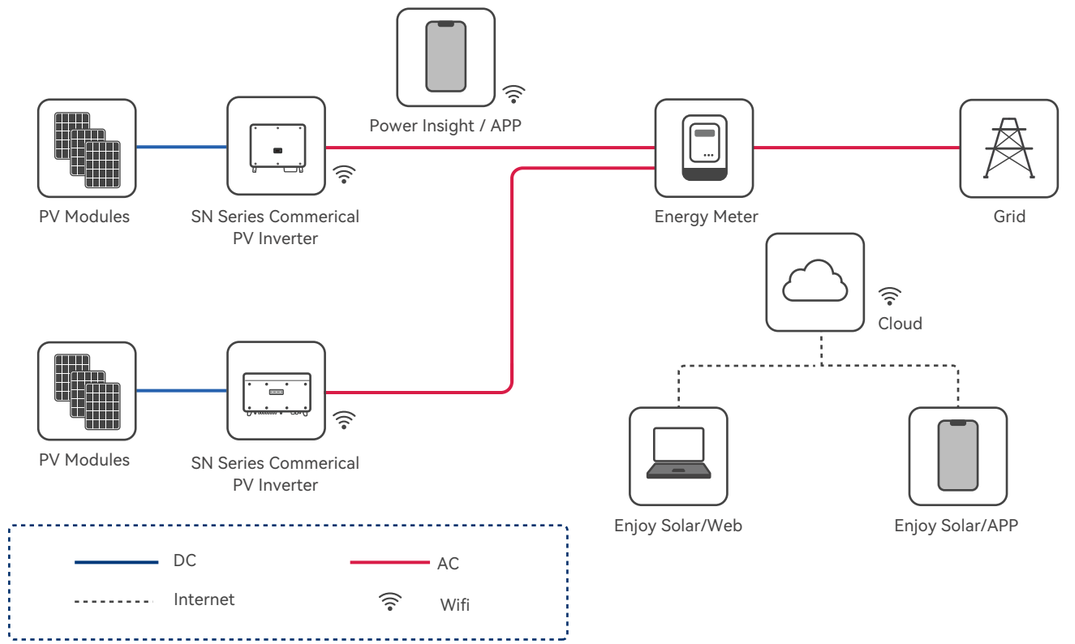
Residential PV & Storage Plant Solution



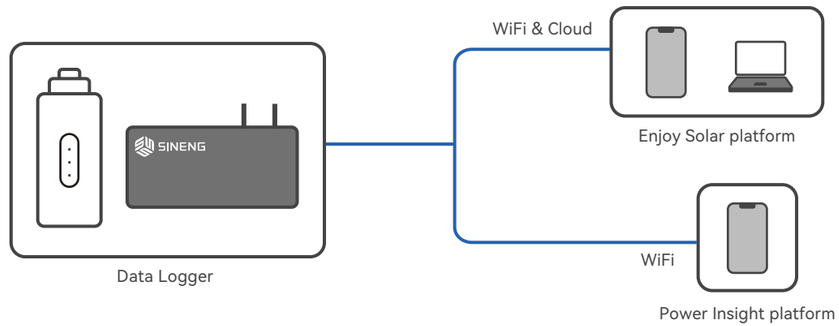
Residential PV Plant Solution



Commerical PV Plant



Monitoring Solution



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