

On-Grid PV Inverter

 \Box 36 kW \Box 40 kW \Box 50 kW \Box 60 kW



Statement Make Life Better

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Notice

Due to product version upgrades or other reasons, the content of the document may be subject to periodic updates, unless otherwise agreed, the document content cannot replace the safety precautions in the product label or user manual.

All descriptions in the documentation are intended solely as guidelines for usage.

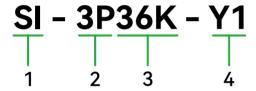
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Scope of Validity

This manual describes the installation, commissioning, operation and maintenance of the following on-grid PV inverters produced by Yinergy:

- SI-3P36K-Y1
- SI-3P40K-Y1
- SI-3P50K-Y1
- SI-3P60K-Y1

Model Description



1 Product Type "SI" refers to String Inverter.

2 Grid Type "3P" refers to Three Phase.

3 Rated Power "36K" refers to the rated output power of 36 kW.

4 Version Number "Y1" refers to the first version.

Target Group

Only for professionals who are familiar with local regulations, standards and electrical systems, and who have received professional training and knowledge of this product.

Symbol Description

Different levels of warning messages in this manual are defined as follows:



DANGER!

Indicates a high-level hazard that, if not avoided, will result in death or serious injury.



WARNING!

Elndicates a medium-level hazard that, if not avoided, could result in death or serious injury.



CAUTION!

Indicates a low-level hazard that, if not avoided, could result in minor or moderate injury.



(i) NOTICE

Highlight and supplement the texts. Or some skills and methods to solve productrelated problems to save time.

Change History

Version 1.0 (30/10/2024)

Initial release

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1.1 Safety Precautions

- 1. All work on the inverter must be carried out by qualified electricians.
- 2. The device may only be operated with PV panels.
- 3. The PV panels and inverter must be connected to the ground.
- 4. Do not touch the inverter cover until 5 minutes after disconnecting both DC and AC power supply.
- 5. Do not touch the inverter enclosure when operating, keep away from materials that may be affected by high temperatures.
- 6. Please ensure that the used device and any relevant accessories are disposed of in accordance with applicable regulations.
- 7. Yinergy inverter should be placed upwards and handled with care in delivery. Pay attention to waterproof. Do not expose the inverter directly to water, rain, snow or spray.
- 8. Alternative uses, modifications to the inverter not recommended. The warranty can become void if the inverter was tampered with or if the installation is not in accordance with the relevant installation instructions.

1.2 Explanations of Symbols

Yinergy inverter strictly comply with relevant safety standards. Please read and follow all the instructions and cautions during installation, operation and maintenance.

Table 1-1 Symbols

Symbol Description



Danger of electric shock

The inverter contains fatal DC and AC power. All work on the inverter must be carried out by qualified personnel only.



Beware of hot surface

The inverter's housing may reach uncomfortably hot 60 °C (140 °F) under high power operation. Do not touch the inverter enclosure when operation.



Residual power discharge

Do not open the inverter cover until 5 minutes after disconnection both DC and AC power supply.



Do not dispose of this device with the normal domestic waste.



Without transformer

This inverter does not use transformer for the isolation function.



CE mark

The inverter complies with the requirements of the applicable CE guidelines.



Refer to manual before service.

1.3 System Diagram

The typical on-grid PV system connection diagram.

• SI-3P36K-Y1 • SI-3P40K-Y1

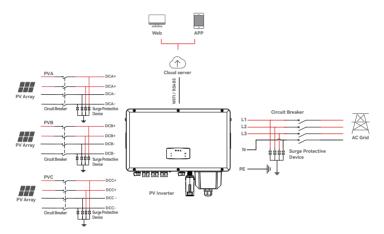


Figure 1-1 System Diagram-1

• SI-3P50K-Y1

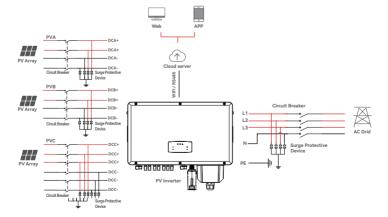


Figure 1-2 System Diagram-2

SI-3P60K-Y1

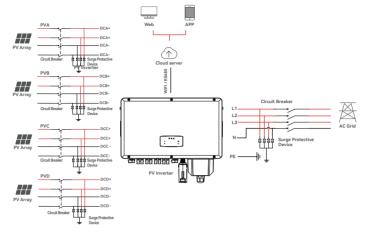


Figure 1-3 System Diagram-3

Circuit Breaker Recommendation

Table 1-2 Circuit Breaker Lists

Model	Max AC Current (A)	Rated current of AC breaker (A)
SI-3P36K-Y1	60	100
SI-3P40K-Y1	65	100
SI-3P50K-Y1	80	100
SI-3P60K-Y1	96	125

Surge Protector Recommendation

- AC side, nominal discharge current 20 kA, second grade lightning protection, protection voltage 2.5 kV.
- DC side, nominal discharge current 20 kA, second grade lightning protection, protection voltage 3.2 kV.

(i) NOTICE

The Inverter can be only connected to low-voltage grid. (380 / 400 / 415 Vac, 50 / 60 Hz).

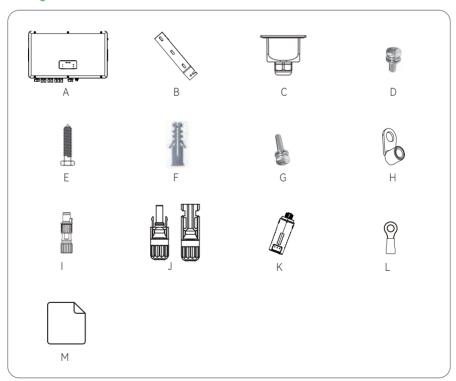
2.1 Pre-installation

2.1.1 Unpacking & Package List

Unpacking

On receiving the inverter, please check to make sure the packing and all components are not missing or damaged. Please contact your dealer directly for supports if there is any damage or missing components.

Packing List



Item	Description	Quantity
А	Solar Inverter	1 pc
В	Wall Mounting Bracket	1 pc
С	AC Waterproof Cover	1 pc
D	AC Wiring Cover Screw	4 pcs
Е	Mounting Bracket Screw	3 pcs
F	Plastic Expansion Tube	3 pcs
G	Security Screw	1 pc
Н	AC Wiring Terminal	4 pcs
ı	Zero-Injection Connector (Optional)	1 pc
J	DC Connector sets	6/7/8 pcs
K	Monitor Module	1 pc
L	Grounding Terminal	1 pc
М	Documents	4 pcs

(i) NOTICE

DC connectors Qty.: 36 - 40 kW 6 pairs, 50 kW 7 pairs, 60 kW 8 pairs.

2.1.2 Product Overview

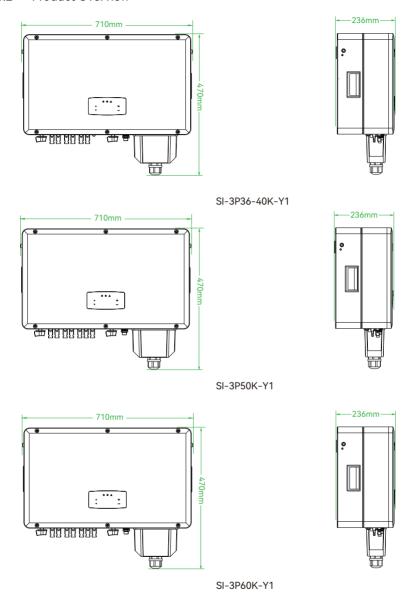
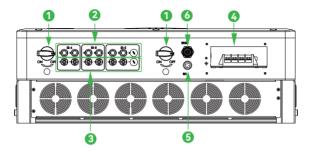


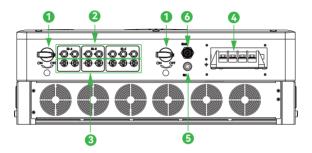
Figure 2-1 Product Overview

Inverter Terminals

SI-3P36~40K-Y1



SI-3P50K-Y1



SI-3P60K-Y1

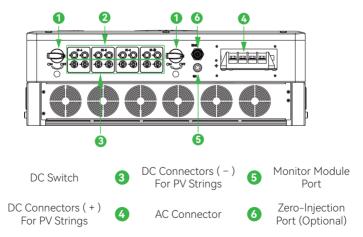


Figure 2-2 Inverter Terminals

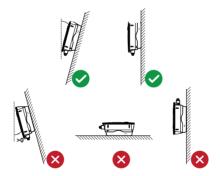
2.1.3 Mounting Location

The inverters are designed for indoor and outdoor installation (IP65), to increase the safety, performance and lifespan of the inverter, please select the mounting location carefully based on the following rules:

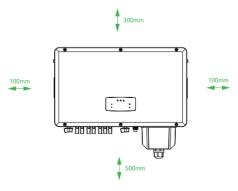
- The inverter should be installed on a solid surface, far from flammable or corrosion materials, where is suitable for inverter's weight and dimensions.
- The ambient temperature should be within -25 °C ~ 60 °C (between -13 °F and 140 °F).
- The installation of inverter should be protected under shelter. Do not expose the inverter to direct sunlight, water, rain, snow, spray lightning, etc.



 The inverter should be installed vertically on the wall, or lean back on plane with a limited tilted angle. Please refer to below picture.

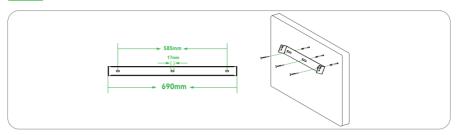


 Leave the enough space around inverter, easy for accessing to the inverter, connection points and maintenance.

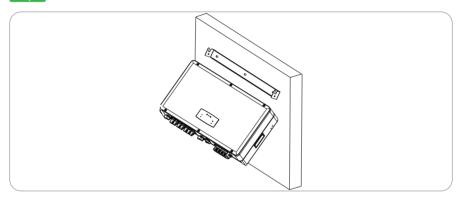


2.2 Mounting

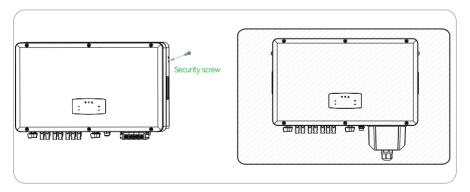
Step 1



Step 2



Step 3



3.1 PV Connection

 $36-40~\mathrm{kW}$ three phase inverters have 3 MPPT channels, each channel includes two PV string input;

50 kW three phase inverters have 3 MPPT channels, channel A and B includes 2 PV string input, and channel C includes 3 PV string inputs;

60 kW three phase inverters have 4 MPPT channels, each channel includes two PV string inputs;

For the best results, make sure that each MPPT channel is correctly connected with PV string. Otherwise, the inverter will activate voltage or current protection automatically.

Please make sure below requirements are followed:

- The open-circuit voltage and short-circuit current of PV string should not exceed the reasonable range of the inverters.
- The isolation resistance between PV string and ground must exceed 10 k Ω .
- · The polarity of PV strings are correct.
- · Use the DC plugs in the accessory.
- The lightning protector should be equipped between PV string and inverter.
- · Disconnect all of the PV (DC) switch during wiring.

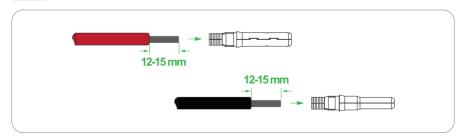


WARNING!

The fatal high voltage may on the DC side, please comply with electric safety when connecting.

Please make sure the correct polarity of the cable connected with inverter, otherwise inverter could be damaged.

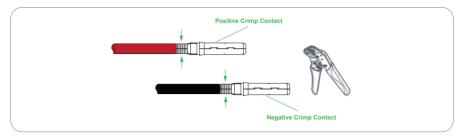
Step 1





PV cable suggestion, Cross-section: 4mm².

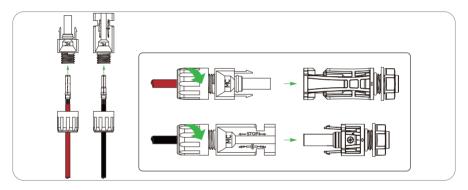
Step 2



(i) NOTICE

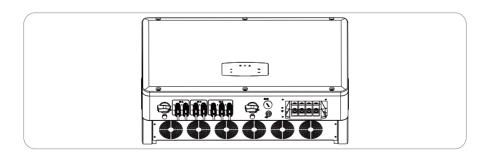
Please use PV connector crimper to pinch the point of the arrow.

Step 3



(i) NOTICE

You'll hear click sound when the connector assembly is correct.

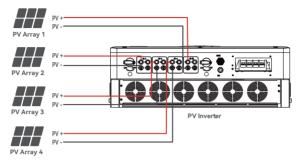




PV string suggestion:

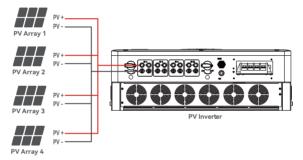
✓ Correct Installation:

Channel A, B, C and D connected with PV strings separately.



× Wrong Installation:

Do not connect more than two PV strings into one channel.



3.2 Grid & Earth Connection

The external AC switch should be installed between inverter and grid to isolate from grid. Please make sure below requirements are followed before connecting AC cable to the inverter.

- The AC (grid) voltage should not exceed the reasonable range of the inverters.
- The phase-line from AC distribution box are correctly connected.
- · Use the AC plugs in the accessory.
- The surge protector should be equipped between grid and inverter.
- Disconnect the AC (grid) switch during wiring.



WARNING!

The fatal high voltage may on the AC side, please comply with electric safety when connecting.

Please make sure the right line of AC grid connected with inverter, otherwise inverter could be damaged.

Step 1

Cable suggestion:

36 - 40 kW Cross-section (Copper) 10 - 25 mm² / 10 AWG

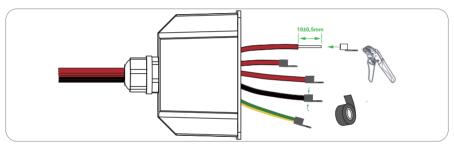
50 kW Cross-section (Copper) 16 - 25 mm² / 8 AWG

60 kW Cross-section (Copper)16 - 35 mm² / 6 AWG

Earth cable PE suggestion:

Cross-section (Copper) 4 - 6 mm² / 10 AWG

After the terminals are crimpped, wrap the joint position with insulation tape.

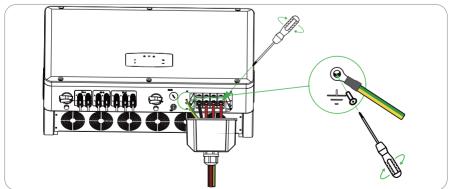




(i) NOTICE

The wiring terminals should be wrapped with insulation tape, otherwise it will cause a short circuit and damage the inverter.

Step 2



N = Neutral line, L1, L2, L3 = Live line, PE = Earth cable

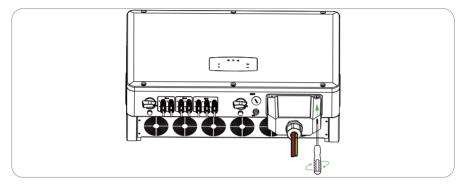
Unscrew the row of screws, insert the wire harness into the N, L1, L2, L3 caps one by one, and tighten the screws.



(i) NOTICE

The user must connect a protective earth (PE) terminal to prevent electric shock. And make sure this PE terminal is properly grounded.

Step 3



Fix the AC wiring cover with cover screws.

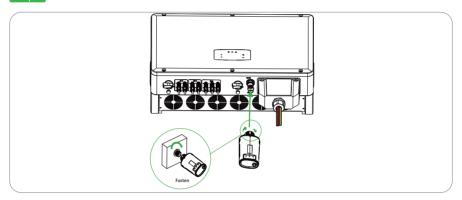
3.3 Communication Connection

The monitoring module could transmit the data to the cloud server, and display the data on the PC, tablet and smart-phone.

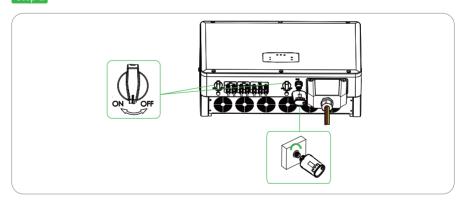
Install the WIFI / Ethernet / GPRS / RS485 Communication

WIFI / Ethernet / GPRS / RS485 communication is applicable to the inverter. Please refer to "Communication Configuration Instruction" for detailed instruction.

Step 1



Step 2

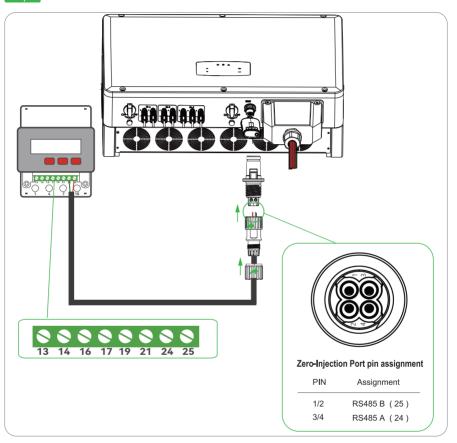


Turn on the DC switch and AC circuit breaker, and wait until the LED indicator on the monitoring module flashes, indicating that the monitoring module is successfully connected.

3.4 Zero-injection Smart Meter (Optional)

Smart meter is an intelligent control equipment which is used for on-grid inverters. Its main function is to measure the forward and reverse power on the grid-connected side, and transmit data to the inverter through RS485 communication to ensure that the power of the inverter is less than or equal to the user's home load, and no current flows into the grid.

Step 1



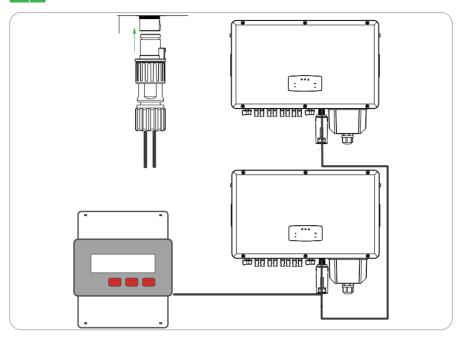
(i) NOTICE

Please follow below pin order

RS485B (Pin 1/2) to three-phase meter (Pin 25)

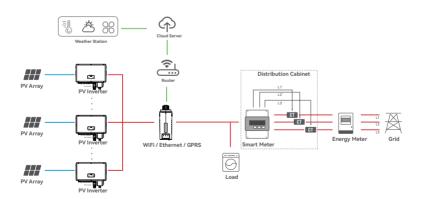
RS485A (Pin 3/4) to three-phase meter (Pin 24)

Step 2



(i) NOTICE

When multiple inverters are connected in parallel, the total output power could not exceed the reasonable range of the smart meter.



(i) NOTICE

The Inverter could be connected in parallel with Smart Meter, make sure the total load power not exceed Smart Mater's limitation.

4

ESC Touch Button

4.1 Control Panel

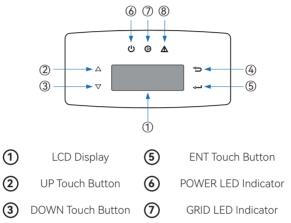


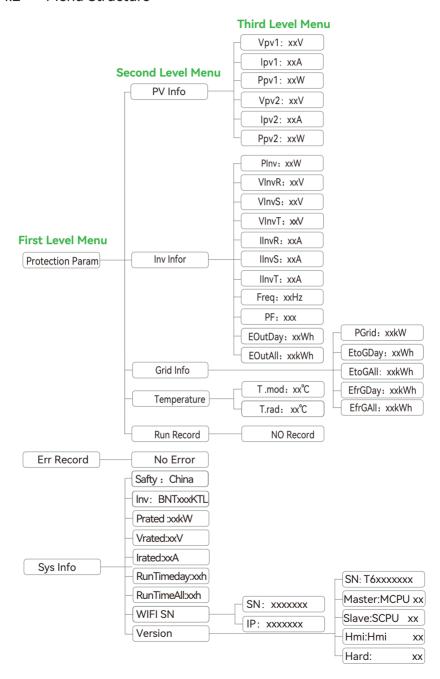
Figure 4-1 Control Panel
Table 4-1 LED Description

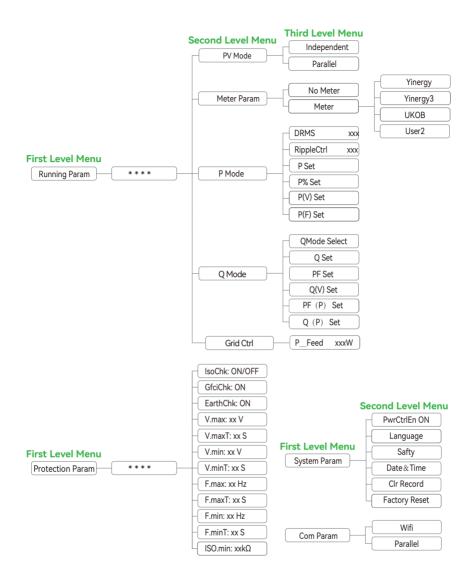
(8)

FAULT LED Indicator

Sign	Power	Color	Explanation
POWER	ON	Green	The inverter is stand-by
POWER	OFF		The inverter is power off
GRID	ON	Green	The inverter is feeding power
OND	OFF		The inverter is not feeding power
- FALLET	ON	Red	Fault occurred
FAULT	OFF		No fault

4.2 Menu Structure





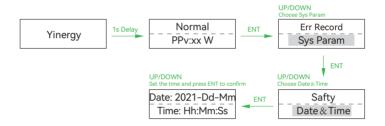
Explanation of LCD Display Content

Nouns	Explanation
Sys Info	Check the inverter's real-time operating information
Error Record	Check the inverter's fault records with date and time

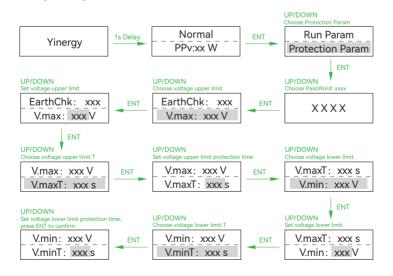
Nouns	Explanation
System Param	Set the inverter's safty code / lanuage / time & date, restore to factory settings
Version	Check the inverter's SN and firmware version
Protection Param	Set the inverter's protection parameters
Running Param	Set the inverter's operating mode like parellel, active / reactive power control

4.3 Setting

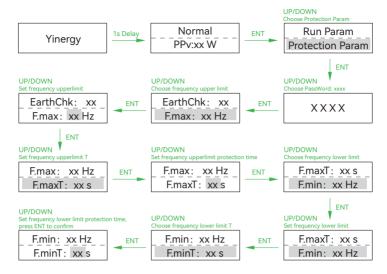
4.3.1 Startup



4.3.2 Voltage Range



4.3.3 Frequency Range



(i) NOTICE

The parameters setting only works after the inverter is restarted.

5 Commissioning

Make Life Better

Before starting up commissioning at site, please make sure below procedures and requirements are fully meet.

- · Mounting location is meet the requirements.
- All of the electrical wiring is firmly connected, including PV wiring, Grid wiring and Earth wiring.
- The inverter setting has been finished accordingly to local standards or regulations.

Commissioning Procedures

- Turn on the AC switch between inverter output and the public grid;
- Turn on the DC switch on the inverter;
- Turn on the PV switch of the system.

6.1 Shut Down

- Turn off the DC switch on the inverter.
- Turn off the DC switch between PV panels and the inverter (if any).
- Close the AC switch between the inverter and the public grid.

(i) NOTICE

The inverter will be operable after minimum 5 minutes.

6.2 Restart

- Shut down the inverter according to Chapter 6.1.
- Start-up the inverter according to Chapter 5.

7 Maintenance & Troubleshooting

7.1 Maintenance

Periodically maintenance are necessary, please follow steps as below.

PV connection: twice a year
AC connection: twice a year
Earth connection: twice a year

Heat sink: clean with dry towel once a year.

7.2 Troubleshooting

Fault messages will be displayed when fault occurs, please according to troubleshooting table find related solutions.

Troubleshooting List

Type of Fault	Code	Name	Description	Recomm end Solution
	A01	PvConnectFault	The actual PV connection type (independent, parallel) different from setup.	Set PV connection type according to the actual PV connection type.
	A02	lsoFault	ISO check among PV panels/ the wires to the ground is abnormal.	Check whether the PV modules and its wiring are immersed in water and whether the insulation is damaged, and then make corrections. If the fault occurs continuously and frequently, contact the local distributors for help.
PV Fault	A03	PvAfciFault	PV current arcing	Check whether the PV cables and wiring terminals are broken or connection abnormal, and correct them. If the fault occurs continuously and frequently, contact the local distributors for help.
	A04	Pvs1OverVoltFault	PV Voltage over, beyond	Reconfiguration of PV strings, reduce the PV number of a PV string to reducing inverter PV
	A05 PVs2OverVoltF	PVs2OverVoltFault	the reasonable range.	input voltage.Contact local distributors for suggestion.
	A16	PVs1ReverseFault	PV(+) and PV(-) reversed	Check whether PV (+) and PV (-) connection reversed or not. If
	A17	PVs1ReverseFault	Connection	reversed, make correction

Type of Fault	Code	Name	Description	Recomm end Solution
	A33	Pv1AbnormalFault	Compared with previous voltage and other PV voltages, this PV voltage	Check if PV modules are partially blocked or cells are damaged.
PV Fault	A34	Pv2AbnormalFault	suddenly becomes higher or lower.	 Check if PV cables and terminals broken or loose connection, then repair it.
	E01	Pv1HwOverCurrFault	PV current over, triggered	Power off, then restartIf fault still occurs continuously
	E02	Pvs2HwOverCurrFault	the hardware protection circuit	and frequently, please ask help for local distributors.
	E13	PVs1SwOverCurrFault	PV current over, triggered	Power off, then restartIf fault still occurs continuously
	E14	PVs2SwOverCurrFault	the hardware protection circuit	and frequently, please ask help for local distributors.
	E33	Boost1SelfCheckFault	PV boost circuit abnormal when self	Power off, then restart. If fault still occurs continuously and frequently places ask help for
DC Fault	E34	Boost2SelfCheckFault	checking	and frequently, please ask help for local distributors.
20 radio	E45	BusHwOverVoltFault	Bus voltage over	
	E46	BusHwOverHalfVoltFault		
	E47	BusSwOverVoltFault		Power off, then restartIf fault still occurs continuously
	E48	BusSwOverHalfVoltFault		and frequently, please ask help for local distributors.
	E49	BusSwUnderVoltFault	Bus voltage under as running	
	E50	BusUnbalancedFault	DC Bus voltage unbalanced	
	F01	HwOverFault	Hardware detected that current over / BUS voltage over	
	F02	InvHwOverCurrFault	Hardware detected that inverter current over	
	F03	InvROverCurrFault	R phase / Split phase L1 current over	Power off, then restart
AC Fault	F04	InvSOverCurrFault	S phase / Split phase L2 current over	 If fault still occurs continuously and frequently, please ask help for local distributors.
	F05	InvTOverCurrFault	T phase current over	
	F06	GridUnbalanCurrFault	3 phase current effective value has big difference	
	F07	DcInjOverCurrFault	DC injection current over	

Type of Fault	Code	Name	Description	Recomm end Solution
	F08	AcOverLeakCurrFault	AC side leakage current over	Check if PV panels has good ground insulation and ground wires are connected well ground is well, then repair it. Power off, then restart. If fault still occurs continuously and frequently, please ask help for local distributors.
AC Fault	F09	PLLFault	The phase-locked loop is operating abnormally, and it does not stably track the grid voltage phase.	Power off, then restart If fault still occurs continuously
	F10	GridRelay1Fault	It is detected that the relay group 1 cannot be opened or closed normally.	and frequently, please ask help for local distributors.
	G01	PVs1ReverseFault		
	G02	PVs2CurAdChanFault	_	
	G16	RInvCurAdChanFault	PV current sampling hardware abnormal	
	G17	SInvCurAdChanFault		
	G18	TInvCurAdChanFault		
	G19	RInvDciAdChanFault		Power off, then restart
	G20	SInvDciAdChanFault		If fault still occurs continuously and frequently, please ask help for
	G21	TInvDciAdChanFault		local distributors.
System	G22	LeakCurAdChanFault		
Fault	G23	VoltRef(1.65V) AdChanFault	_	
	G30	UpsRDcvAdChanFault	_	
	G31	UpsSDcvAdChanFault	_	
	G32	UpsTDcvAdChanFault		
	G37	TempAdChanFault	All temperature sensors abnormal	
	G38	VoltAdConflictFault	The sample value of PV, battery and BUS voltage inconsistent with the actual value	Power off, then restart If fault still occurs continuously and frequently, please ask help for local distributors.
	G39	CPUAdConflictFault	The sample value between master CPU and slaver CPU inconsistent	iocal distributors.

Type of Fault	Code	Name	Description	Recomm end Solution	
	G40	PowerCalcConflictFault	The sum of the PV power, battery and inverter output is too different from zero.	Power off, then restart If fault still occurs continuously and frequently, please ask help for local distributors.	
	G41	EnvirOverTemp1Fault	Installation environment		
	G42	EnvirLowTemp1Fault	temperature over or low		
	G43	CoolingOverTemp2Fault	Cooling temperature	Improve or change the installation environment to adjust the inverter installation environment	
System Fault	G44	CoolingLowTemp2Fault	over or low	temperature to normal range. Power off, then restart. If fault still occurs continuously	
	G45	OverTemp3Fault	Temperature3 over or	and frequently, please ask help for local distributors.	
	G46	LowTemp3Fault	low		
	G46	DSPOverTempFault	CPU temperature over		
	G48	ModelConflictFault	Version conflict with inverter	Power off, then restart If fault still occurs continuously and frequently, please ask help for local distributors.	
	101	InterFan1Warning	Fan abnormal blocking the remove it. If those faul and frequer	Check if there is objects which blocking the fan rotation and	
	102	ExterFanWarning			
	103	Fan3Warning		local distributors.	
	104	EnvirTemp1AdChanWarning		The warning does not affect the normal operation of the inverter.	
,	105	CoolingTemp2AdChanWarning	Some temperature sensors abnormal	 Power off, then restart. If fault still occurs continuously and frequently, please ask help for 	
	106	Temp3AdChanWarning		local distributors.	
Inner Warnning	107	ExtFlashComWarning	Communication between the master CPU and the Flash is abnormal.		
	108	EepromComWarning	Communication between the master CPU and the Eeprom is abnormal.	. Dower off thee rectors	
	109	SlaveComWarning	Communication between • If fault still occurs o	 Power off, then restart If fault still occurs continuously and frequently, please ask help for local distributors. 	
	l10	HmiComWarning	Communication between master CPU and HMI is abnormal		
	l11	FreqCalcConflictWarning	Frequency value abnormal		
•	l12	UnsetModel	Running model is not initial	Contact with local distributor.	

Type of Fault	Code	Name	Description	Recomm end Solution
	J01	Meter Com Warning	Communication between inverter and meter is abnormal	Check the meter model, and whether meter wiring and terminals are connected correctly, damaged or loose, if happens, make corrections. Power off, then restart. If fault still occurs continuously and frequently, please ask help for local distributors.
Outside	J02	MeterConnectWarning	Meter / CT wiring fault, or installation position fault.	Check whether the meter or CT wiring, installation position, and installation direction are wrong, and make corrections. Power off, then restart. If fault still occurs continuously and frequently, please ask help for local distributors.
Warnning	J04	GndAbnormalWarning	Poor grounding or no grounding wire has been detected.	Check whether the ground wire of the inverter is properly connected and whether the ground impedance is over, and make corrections. Power off, then restart. If fault still occurs continuously and frequently, please ask help for local distributors.
	J05	ParallelComWarning	Communication between master inverter and slaver ones abnormal in parallel mode.	Check whether the parallel communication line is damaged, the terminal is loose, the wiring hole position is correct, and make corrections. Power off, then restart. If fault still occurs continuously and frequently, please ask help for local distributors.

8 Technical Data

• PV Input

Model	SI-3P36K-Y1	SI-3P40K-Y1	SI-3P50K-Y1	SI-3P60K-Y1
Max. DC Power (W)	54000	60000	75000	90000
Max. DC Voltage (V)		11	100	
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	x 3	40 x 3	38 x 4
Max. Short Current (A)	48	x 3	48 x 3	48 x 4
No. of MPP Tracker / No. of PV String	3.	/ 6	3/7	4/8
Input Connector Type		M	1C4	

• AC Output

SI-3P36K-Y1	SI-3P40K-Y1	SI-3P50K-Y1	SI-3P60K-Y1
39600	44000	55000	66000
36000	40000	50000	60000
60	65	80	96
3P + N + PE / 3P + PE 230 / 400			
260 Vac - 519 Vac (according to local standard)			
50 / 60			
45 - 55 Hz / 55 - 65 Hz (according to local standard)			
1 default (adjustable from 0.8 leading to 0.8 lagging)			
< 3%			
	39600 36000	39600 44000 36000 40000 60 65 3P + N + PE / 3i 260 Vac - 519 Vac (accc 50 45 - 55 Hz / 55 - 65 Hz (acccl) 1 default (adjustable from	39600 44000 55000 36000 40000 50000 60 65 80 3P + N + PE / 3P + PE 230 / 400 260 Vac - 519 Vac (according to local standard) 50 / 60 45 - 55 Hz / 55 - 65 Hz (according to local standard) 1 default (adjustable from 0.8 leading to 0.8 lagging)

• Efficiency

Model	SI-3P36K-Y1	SI-3P40K-Y1	SI-3P50K-Y1	SI-3P60K-Y1
Max. Efficiency	98.65%	98.65%	98.80%	99.00%
Euro Efficiency	98.20%	98.25%	98.45%	98.50%

· Protection

Model	SI-3P36K-Y1	SI-3P40K-Y1	SI-3P50K-Y1	SI-3P60K-Y1
PV Reverse Polarity Protection		Ye	es .	
PV Insulation Resistance Detection		Ye	es .	
AC Short Circuit Protection		Ye	es	
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

Model	SI-3P36K-Y1	SI-3P40K-Y1	SI-3P50K-Y1	SI-3P60K-Y1
Dimensions (W x H x D, mm)	710 x 470 x 236			
Weight (kg)		44		
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			55
Night Power Consumption (W)	<1			
Max. Operation Altitude (m)	≤ 4000			

• Certifications and Standards

Model	SI-3P36K-Y1	SI-3P40K-Y1	SI-3P50K-Y1	SI-3P60K-Y1
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 Regulation	IEC 60068, UL1741, EN62109			
Grid-connection	IEEE1547, CSA C22, EN50549, VDE4105, VDE0126, RD1699, ABNT NBR16149 & 16150, AS4777.2, NB/T32004, G98/G99, IEC61727			



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