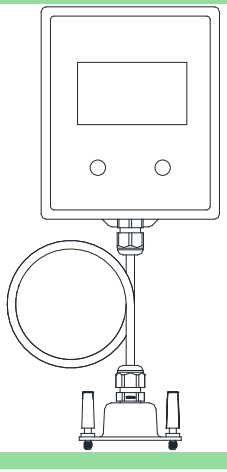
SUNGROW

User Manual

Eshow

LCD module



Eshow-UEN-Ver12-201511 Version：1.2

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1 Connection of Eshow

1.1 Installation Procedure

Eshow is installed onto the inverter by means of backplate in the packaging.

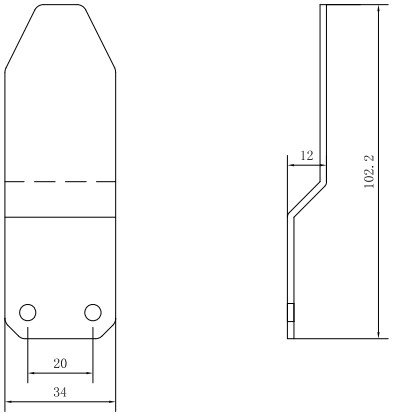


Fig. 1-1 Dimensions of backplate (unit: mm)

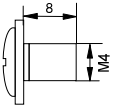
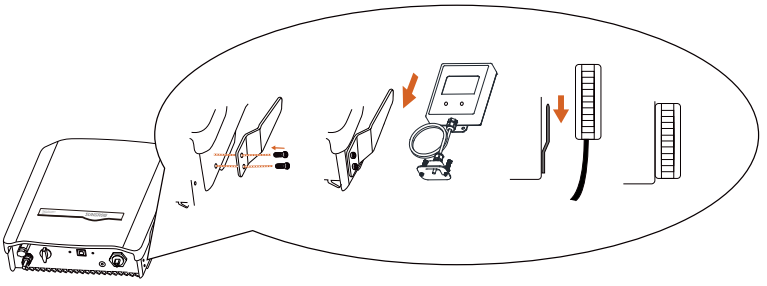


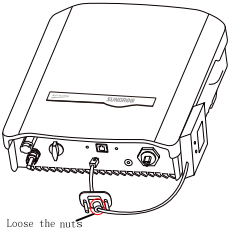
Fig. 1-2 Dimensions of Fastener (unit: mm)

1.2 Connection of Eshow

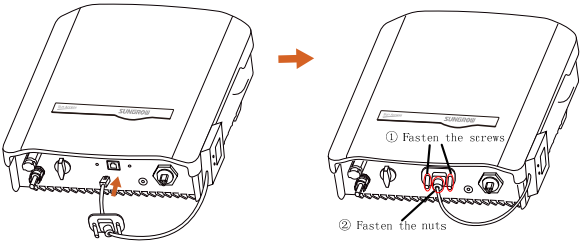
Step 1 Fasten the backplate to the inverter with the supplied fasteners and then hang the Eshow onto the inverter.



Step 2 Loose the nuts of waterproof terminal.



Step 3 Connect the RJ45 plug into the RJ45 port on the bottom of the inverter. Fasten the screws of waterproof terminal firstly and then fasten the nuts.



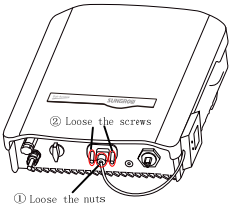
If there is no screw hole at the lower right side of the inverter, please mount the Eshow onto the wall next to the inverter. The space between Eshow and inverter should be proper to ensure the communication cable of the Eshow can be connected to the RJ45 port at the bottom of the inverter.

1.3 Disconnecting the Eshow

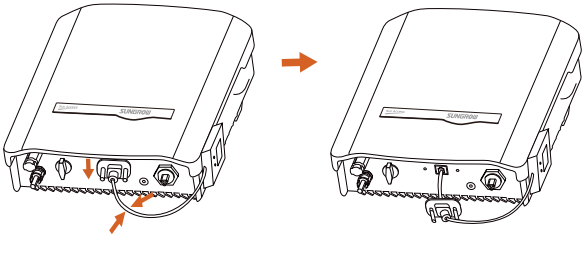
For maintenance or other service work, the Eshow must be switched off.

Proceed as follows to disconnect the Eshow from the inverter. Damages to the Eshow will follow if otherwise.

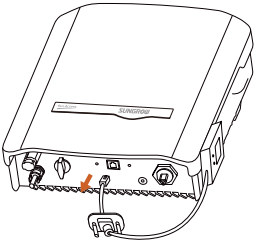
Step 1 Loose the nuts firstly and then loose the screws of waterproof terminal.



Step 2 Pinch the cable on the end of the water-proof terminal by one hand and push slightly toward the inverter bottom side to make sure the cable and terminal are connected firmly. At the same time, pull the water-proof terminal by the other hand.



Step 3 Pull the RJ45 plug out of the RJ45 port.



2 Operation of LCD Display

2.1 Description of Button Function

Inverter offers two buttons for user to look up the running information and configure parameters. The two buttons have multiple functions. Please refer to Tab. 2-1 before any operation onto inverter.

Please wait about 15s for Eshow startup after completing the connection of it.

Tab. 2-1 Button function

Button	Operation	Description
	Press for less than 0.5 second	Move upwards or downwards or scroll among set values. Hereinafter, it is referred to as "Touch ▽".
	Press for more than 0.5 second	Return to the previous menu or cancel the command. Hereinafter, it is referred to as "Press ▽".
	Press for less than 0.5 second	Move left or right, or turn pages. Hereinafter, it is referred to as "Touch ▷".
	Press for more than 0.5 second	Enter into the sub-menu or confirm the command. Hereinafter, it is referred to as "Press ▷".

If there is no button operation for:

- 1 minute, LCD backlight is OFF;
- 2 minutes, system returns to the default menu (main screen).

2.2 Menu Tree

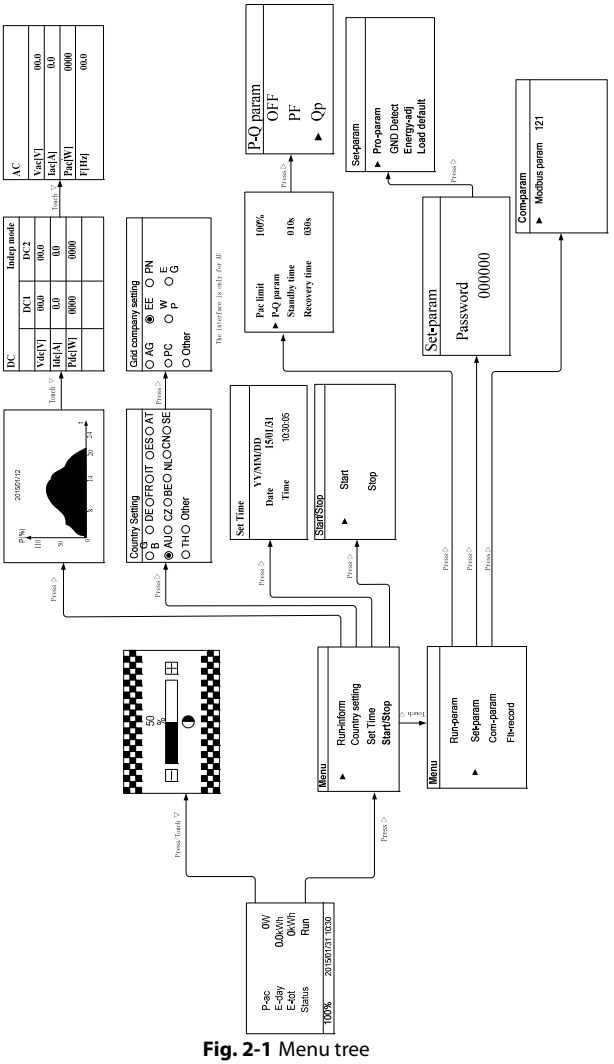


Fig. 2-1 Menu tree

2.3 Main Screen

Once the inverter commissioning is finished, LCD display will enter the main screen as shown in Fig. 2-2.

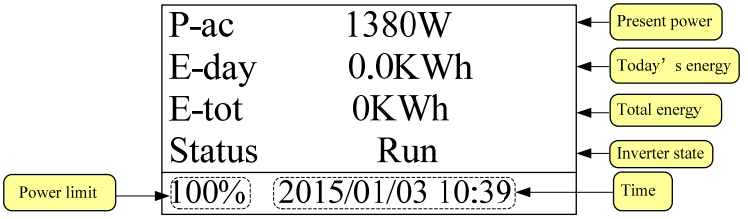
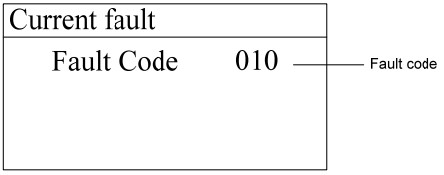


Fig. 2-2 Main screen

Tab. 2-2 Description of the main screen

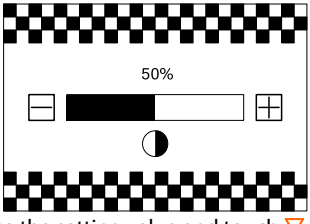
Status	Description
Run	After being energized, inverter tracks the PV arrays' maximum power point (MPP) and converts the DC power into AC power. This is the normal operation mode.
Standby	Inverter enters Standby mode when DC side input is insufficient. In this mode inverter will wait within the Standby duration (set by user, refer to 2.9 Run-param Setting).
Stop	Inverter is stopped.
Key-stop	Inverter will stop operation by manual "stop" through LCD menu. In this way, inverter internal DSP stops. To restart the inverter, manually start from the LCD menu.
Start...	The inverter is initializing and synchronizing with the grid.
Dispatch	Inverter output power can be adjusted via the LCD display. The value of Pac limit is lower than 100%.
Derating	Output derating is a way to protect the inverter form overload or potential faults. Situations require inverter power derating are: Internal temperature is too high, grid voltage is too low and so on.
Fault xxx	If a fault occurs, inverter will automatically stop operation, disconnect the AC relay, and display the fault information on the LCD display with the "FAULT" indicator on. "xxx" is the fault code, e.g. "010". Once the fault is removed in recovery time (set by user, refer to 2.9 Run-param Setting), inverter will automatically resume running.
Warn xxx	Warning information is detected. "xxx" is the warning code, e.g. "070".

If inverter is in "Fault" state, touch ▷ to view "Current fault" information. To know the meaning of the fault code, please refer to "3.1 Troubleshooting of Fault in LCD Screen".



2.4 Contrast Adjustment

Step 1 Press/touch ▽ on main screen to enter into the contrast adjustment screen.



Step 2 Touch ▷ to increase the setting value and touch ▽ to decrease the value.

Step 3 Press ▷ to confirm the contrast setting.

Contrast adjustment range: 0…100%

Recommended value: 50% or 60%.

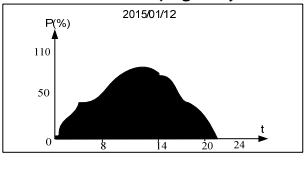
2.5 Checking Running Information

The main screen displays some basic information about the inverter. For more detailed information, please operate as follows:

Main Screen (Press ▷)→Menu→Run-inform (Press ▷)

LCD display will show the detailed running information. Scroll pages by touching ▷.

Power curve: shows the power output in a single day. Each point in the curve is the percentage of present power and nominal power.



If the inverter has two pairs of DC terminals, the DC information will be as shown in the following figure.
"Indep / Paral mode" is the PV configuration mode of the two PV inputs, refer to "5.5.1 PV Inputs Configuration" in the User Manual of inverter.
For independent mode, the two PV inputs work independently, each with its own MPPT. Therefore the two PV inputs can be different with each other, including different PV module types, different numbers of connected in PV string, different tilt angles or orientation angle of PV modules.
For parallel mode, all PV strings connected to the inverter have a homogenous structure, including the same type, the same number, identical tilt and identical orientation.

Vdc[V]: DC voltage of each input.
Idc[A]: DC current of each input.
Pdc[W]: DC power of each input.

DC	Paral mode	
	DC1	DC2
Vdc[V]	345.6	345.6
Idc[A]	6.2	6.3
Pdc[W]	2142	2177

If the inverter has a pair of DC terminals, the DC information will be as shown in the following figure.

Vdc[V]: DC voltage.
Idc[A]: DC current.
Pdc[W]: DC power.

DC	
Vdc[V]	00.0
Idc[A]	0.0
Pdc[W]	0000

Vac[V]: AC output voltage.
Iac[A]: AC output current.
Pac[W]: AC output power.
F[Hz]: Frequency of AC output.

AC	
Vac[V]	221.7
Iac[A]	19.7
Pac[W]	4230
F[Hz]	50.0

Country: Country code.
Temp: The internal temperature of the inverter.

Country	AU
Temp	45.2℃

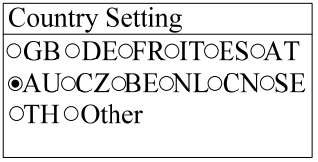
Inverter shows detailed firmware information, including SN number and DSP version.
The firmware version information is read only.

Firmware version	
SN	A150112331
Version	
	SG5KTL-D-A-A11

2.6 Country Setting

Main Screen (Press ▷)→Menu (Touch ▽×1)→Country setting (Press ▷)

To make the protection parameters setting convenient, inverter provides in-built protection parameters for certain countries.
Touch ▽/▷ to choose countries and press ▷ to confirm.
If the country selected is not in the list, please choose Other and then input the protection parameters manually.

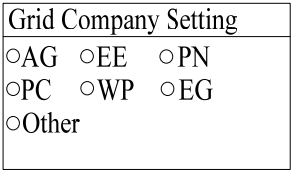


After setting the Country parameter, please proceed to set other parameters of the inverter in accordance with the specific requirements of the local grid. Before commissioning, please check thoroughly if the set parameters meet the local grid requirement.
Sungrow Power Supply Co., Ltd. assumes no liability for direct or indirect damages arising from the setted parameters exceeding the permissible range of the utility grid company.

Tab. 2-3 Country code description

Country Code	Country	Language
GB	Great Britain	English
DE	Germany	German
FR	France	French
IT	Italy	Italian
ES	Spain	English
AT	Austria	German
AU	Australia	English
CZ	Czech	English
BE	Belgium	French
NL	Netherlands	English
CN	China	Chinese
SE	Sweden	English
TH	Thailand	English
Other	Country not mentioned above	English

If the country code set as AU, the grid company setting will appear on the LCD display as shown below. Touch ▽/▷ to choose grid code and press ▷ to confirm.



Tab. 2-4 Grid company code description

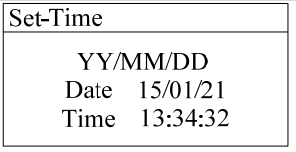
Grid company Code	Company
AG	AusGrid, NSW
EE	Ergon Energy, QLD
PN	SA Power Networks,SA
PC	Powercor,VIC
WP	Western Power,WA
EG	Energex, QLD
Other	Company not mentioned above

2.7 Time Setting

Time deviation between the time on the inverter and the local time of the installation site may cause data logging failure. Please adjust inverter time according to the local time.

Main Screen (Press ▷)→**Menu** (Touch ▽×2)→**Set Time**(Press ▷)

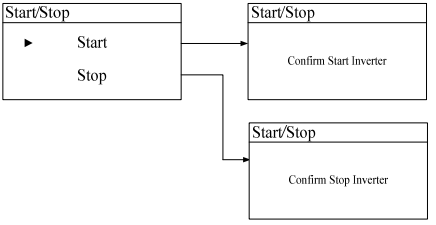
Touch ▷ to move the cursor and touch ▽ to change value. Press ▷ to confirm setting.



2.8 Starting/Stopping

Main Screen (Press ▷)→Menu (Touch ▽×3)→Start/Stop (Press ▷)

Touch ▽ to choose "Start"/"Stop" and **press** ▷ to confirm the choice.

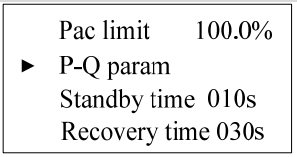


Press ▷ to confirm.

2.9 Run-param Setting

Main Screen (Press ▷)→Menu (Touch ▽×4)→Run-param (Press ▷)

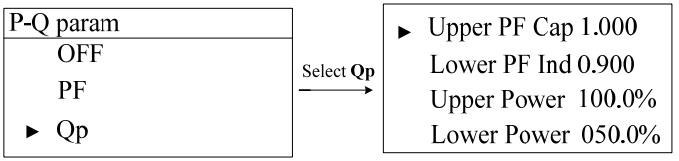
On the "Run-param" screen, touch ▽ to select one item and press ▷ to enter the setting interface.
For each item, touch ▷ to move the cursor and **touch** ▽ to set the appropriate value.
Confirm settings by pressing ▷.



Tab. 2-5 Description of Running Parameters

Parameter	Description	Default	Range
Pac limit	Inverter active power limitation	100.0%	0~100%
P-Q param	Power factor param	-	-
Standby time	Time from inverter standby to startup	10s	20~255s
Recovery time	Time from inverter fault is removed to standby	30s [IT: 300s]	0-900s

Select **P-Q param** and press ▷ to enter the submenu.



Tab. 2-6 Description of P-Q param

Parameter		Description	Default	Range
OFF		Stop inverter reactive power adjustment function.	-	-
PF		Inverter output power factor	+1.000	-1.000~-0.800/ +0.800~+1.000
Qp	Upper PF Cap	Power factor of point P1 in the Qp mode curve	1.000	0.9…1
	Lower PF Ind	Power factor of point P2 in the Qp mode curve	0.900	0.9…1
	Upper Power*	Output power of point P2 in the Qp mode curve (in %)	100.0%	50%...100%
	Lower Power*	Output power of point P1 in the Qp mode curve (in %)	050.0%	0%...50%

*Lower Power <Upper Power

Setting inverter output power factor: "+" means "current leads voltage"; "-" means " current lags voltage"

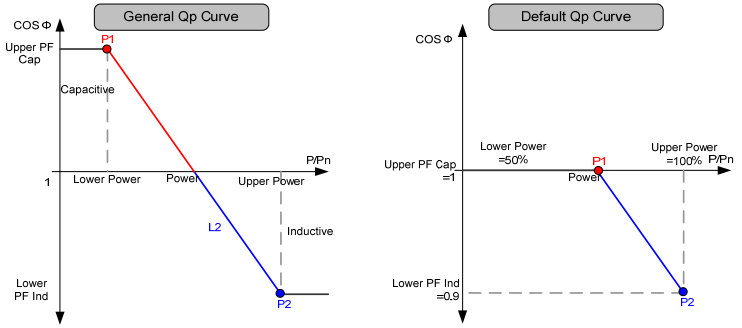


Fig. 2-3 Reactive Power Regulation Curve in Qp Mode

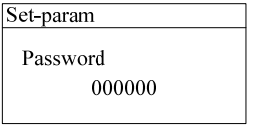
2.10 Set-param Setting

Main Screen (Press ▷)→Menu (Touch ▽×5)→Set-param (Press ▷)

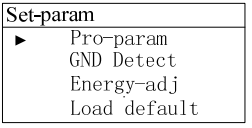
2.10.1 Password Entry

Set-parameter setting is password-protected. To set the parameters, you should enter the correct password.

Step 1 A password confirmation screen will occur. **Touch** ▷ to move cursor right and **touch** ▽ to input the password 111111.



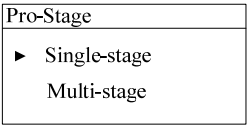
Step 2 **Press** ▷ to confirm the password and enter the "Set-param" sub menu.



2.10.2 Pro-param

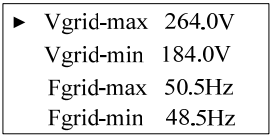
Protection parameters are designed for the threshold value that can trigger the protection function of the inverter.

The single-stage and multi-stage protection parameter setting interface will appear.



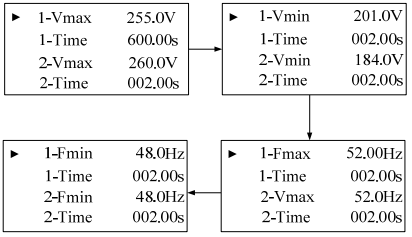
Single-stage Protection Parameter Setting

Touch ▽ to select parameter, **touch** ▷ to move cursor and **touch** ▽ to set the appropriate value. Confirm settings by pressing ▷.



Multi-stage Protection Parameter Setting

Touch ▽ to select parameter, **touch** ▷ to move cursor and **touch** ▽ to set the appropriate value. Confirm settings by pressing ▷.



Tab. 2-7 Multi-stage Protection Parameters Explanation

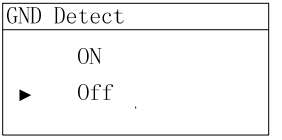
Parameter	Explanation
Max-V. prot	Over-voltage protection
1-Vmax	Stage 1 Grid over-voltage (U>)
1-Time	Stage 1 Grid over-voltage (U>) tripping time
2-Vmax	Stage 2 Grid over-voltage (U>>)
2-Time	Stage 2 Grid over-voltage (U>>) tripping time
Min-V. prot	Under-voltage protection
1-Vmin	Stage 1 Grid under-voltage (U<)
1-Time	Stage 1 Grid under-voltage (U<) tripping time
2- Vmin	Stage 2 Grid under–voltage (U<<)
2-Time	Stage 2 Grid under–voltage (U<<) tripping time
Max-F. prot	Over-frequency protection
1- Fmax	Stage 1 Grid over-frequency (f>)
1- Time	Stage 1 Grid over-frequency (f>) tripping time
2- Fmax	Stage 2 Grid over-frequency (f>>)
2- Time	Stage 2 Grid over-frequency (f>>) tripping time
Min-F. prot	Under-frequency protection
1- Fmin	Stage 1Grid under-frequency (f<)

Parameter	Explanation
1- Time	Stage 1 Grid under-frequency (f<) tripping time
2- Fmin	Stage 2 Grid under-frequency (f<<)
2- Time	Stage 2 Grid under-frequency (f<<) tripping time

2.10.3 GND Detect

Touch ▽ to select **ON**/**Off** and confirm settings by pressing ▷.

Select **ON** to enable the GND Detect function.

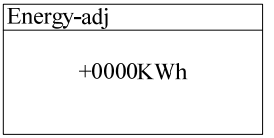


When the resistance to the ground of the inverter PV positive and negative pole is less, or the enclosure of the inverter is not grounded, the ISO-fault codes 039/106 will be shown on the main screen and the buzzer will sound at the same time.

2.10.4 Total Energy Deviation Adjustment

If the accumulative value "E-total" in the inverter is different from the value in the external metering device, you should adjust energy by "Energy-adj" setting.

Touch ▷ to move the cursor and **touch** ▽ to change value. **Press** ▷ to confirm setting.
The positive symbol "+" can be changed to the negative symbol "-".
The adjustment range is from -9999 to +9999 kWh.
(Energy-adj value)= (Real measured value) - (E-tot reading value).

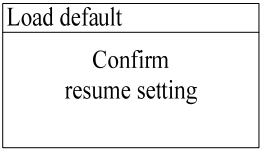


2.10.5 Load Default

NOTICE

All history information will be unrecoverable cleared and all parameters will return to the default value except the protective parameters and time once the "load default" operation is performed.

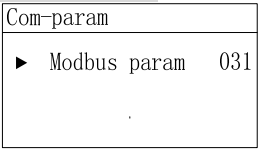
Press ▷ to confirm "load default".



2.11 Communication Parameter Setting

Main Screen (Press ▷)→Menu (Touch ▽×6)→Com-param (Press ▷)

Touch ▷ to move cursor and **touch** ▽ to set the appropriate value. Confirm settings by pressing ▷.



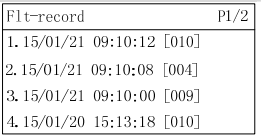
Device address range: 1-247.



2.12 Fault Records

Main Screen (Press ▷)→Menu (Touch ▽×7)→Flt-record (Press ▷)

Inverter shows fault record pages. Scroll pages by touching ▽.



The inverter can only store at most 20 latest fault records.

3 Appendix

3.1 Troubleshooting of Faults in LCD Screen

When faults occur, "Fault" state will be shown on the main screen.

When the date on the screen of Eshow can not be refreshed on time, please disconnect the external AC circuit breaker firstly and then turn off the upstream DC circuit break or pull off the MC4 terminal. Reassemble the inverter front cover and restart inverter.

If the fault still exists, check whether communication cable of the Eshow is firmly connected; If the communication cable is firmly connected, a fault has occurred in the internal communication of the inverter. However, the inverter continues feeding into the grid. Contact Sungrow Service Dept..

Fault Code	Description	Troubleshooting
002	The grid voltage exceeds inverter allowable upper limit.	1. Check the voltage of the grid. 2. If the grid voltage exceeds the permissible range of inverter protection parameters, ask utility grid company for solution. 3. If the grid voltage is within the permissible range, contact Sungrow Service Dept..
003	Grid transient voltage exceeds the permissible range	1. This is a short-term fault due to grid condition. Wait a moment for inverter recovery. 2. If the fault still exists, please contact Sungrow Service Dept..
004	The grid voltage is below inverter's allowable lower limit.	1. Check the grid voltage. 2. If the grid voltage exceeds the permissible range of inverter protection parameters, ask utility grid company for solution. 3. If the grid voltage is within the permissible range, contact Sungrow Service Dept..
005	The grid voltage is too low.	1. This is a short-term fault due to grid condition. Wait a moment for inverter recovery. 2. If the fault still exists, please contact Sungrow Service Dept..

Fault Code	Description	Troubleshooting
006	The AC output current exceeds inverter allowable upper limit.	1. The inverter will resume if the output current falls below the protection value. 2. If the fault still exists, please contact Sungrow Service Dept..
007	Transient AC overcurrent	1. The inverter will self-recover after several seconds. 2. If the fault still exists, please contact Sungrow Service Dept..
008	The grid frequency exceeds inverter allowable upper limit.	1. Check the grid frequency. 2. If the grid frequency exceeds the permissible range of inverter protection parameters, ask utility grid company for solution. 3. If the grid frequency is within the permissible range, contact Sungrow Service Dept..
009	The grid frequency is below the inverter allowable lower limit.	
010	Islanding	1. Check whether AC circuit breaker is triggered. 2. Check whether AC cables are all firmly connected. 3. Check whether grid is not in service. 4. If all conditions are OK and this fault still occurs in the LCD screen, contact Sungrow Service Dept..
011	The DC component of AC current exceeds inverter limit.	1. Wait a moment for inverter recovery. 2. If the fault occurs repeatedly, contact Sungrow Service Dept..
012	A failure current is detected.	1. Check the PV strings for ground fault. 2. If the fault occurs repeatedly, contact Sungrow Service Dept..
014	The average grid voltage exceeds the permissible range for over 10 minutes.	1. Check whether the inverter selected country code is the country you are in. 2. Wait a moment for inverter recovery. 3. Check the voltage of the grid. If the grid voltage exceeds the permissible range of inverter protection parameters, ask utility grid company for solution. 4. If the fault occurs repeatedly, contact Sungrow Service Dept..
015	The grid voltage exceeds the permissible range	1. Check the model of the AC cables. 2. Wait a moment for inverter recovery. 3. If the grid voltage exceeds the permissible range, ask utility grid company for solution. 4. If the fault occurs repeatedly, contact Sungrow Service Dept..

Fault Code	Description	Troubleshooting
016	The bus voltage or power is high.	1. Wait a moment for inverter recovery. 2. If the fault occurs repeatedly, contact Sungrow Service Dept..
019	The transient bus voltage is high.	1. Wait a moment for inverter recovery. 2. If the fault occurs repeatedly, contact Sungrow Service Dept..
020	The bus voltage is high.	1. Wait a moment for inverter recovery. 2. If the fault occurs repeatedly, contact Sungrow Service Dept..
021	PV1 input overcurrent is detected	Check the layout and the wiring of PV1 input.
022	PV2 input overcurrent is detected	Check the layout and the wiring of PV2 input.
036	The temperature of radiator is too high	1. Check whether the placement of inverter is correctly. 2. Check whether the inverter operating ambient temperature is more than the range indicated in the specification. 3. Check whether AC output power exceeds the nominal power. 4. If the fault still exists, please contact Sungrow.
037	The internal temperature of inverter is too high	
038	Relay fault is detected	1. Wait a moment for inverter recovery. 2. If the fault occurs repeatedly, contact Sungrow Service Dept..
039	The insulation resistance is low. (ISO-flt)	1. Check whether there is a reliable inverter grounding line. 2. Check whether the positive and negative of PV panels is short-circuited with ground lead. 3. Wait a moment for inverter recovery. 4. If the fault occurs repeatedly, contact Sungrow Service Dept..
041	Leakage current self-test abnormality	1. Wait a moment for inverter recovery. 2. If the fault occurs repeatedly, contact Sungrow Service Dept..
047	The PV configuration mode set in the smartphone application interface is not in accordance with the configuration in the connection cabinet.	1. Disconnect the inverter. 2. Re-select PV configuration mode and re-connect PV strings.
048	Sampling channel failure	1. Wait a moment for inverter recovery. 2. If the fault occurs repeatedly, contact Sungrow Service Dept..

Fault Code	Description	Troubleshooting
053	Auxiliary DSP detects grid voltage exceeds set protection value	1. Check the grid voltage. 2. If the grid voltage exceeds the permissible range of inverter protection parameters, ask utility grid company for solution. 3. If the grid voltage is within the permissible range, contact Sungrow Service Dept..
054	Auxiliary DSP detects grid frequency exceeds set protection value	1. Check the grid frequency. 2. If the grid frequency exceeds the permissible range of inverter protection parameters, ask utility grid company for solution. 3. If the grid frequency is within the permissible range, contact Sungrow Service Dept..
056	Auxiliary DSP detects leakage current exceeds set protectino range	1. Check whether there is a grounded fault of the PV string. 2. If the fault occurs repeatedly, contact Sungrow Service Dept..
057	Auxiliary DSP AC current sampling channel anomaly	1. Wait a moment for inverter recovery. 2. If the fault occurs repeatedly, contact Sungrow Service Dept..
058	Auxiliary DSP detects AC current DC injection exceeds inverter set protection range	1. Wait a moment for inverter recovery. 2. If the fault occurs repeatedly, contact Sungrow Service Dept..
059	Main and auxiliary DSP communication anomaly	1. Wait a moment for inverter recovery. 2. If the fault occurs repeatedly, contact Sungrow Service Dept..
060	Main and auxiliary DSP sampling difference	1. Wait a moment for inverter recovery. 2. If the fault occurs repeatedly, contact Sungrow Service Dept..
070	Fans are defective	Stop the inverter and disconnect the AC & DC cables. Check whether the fan duct has been blocked. If not, replace fans.
074	Communication fault of LCD	1. Check whether communication cable of the Eshow is firmly connected. 2. If the communication cable is firmly connected, a fault has occurred in the internal communication of the inverter. However, the inverter continues feeding into the grid. Contact Sungrow Service Dept..
087	Arc self-detection anomaly warn	Wait a while. Contact Sungrow if device is still in self-detection warn state.

Fault Code	Description	Troubleshooting
088	Arc anomaly fault	1. Stop the inverter and disconnect the AC & DC cables. Check cable connection for aging and looseness. Re-power on and remove the arc warn manually. 2. Contact Sungrow if this fault still occurs.
089	Arc detection OFF warn	Remove the warn by enable arc detection function or keep the warn by closing arc detection function.
100	The AC output current exceeds inverter protection limit.	1. The inverter will resume if the output current falls below the protection value. 2. If the fault still exists, please contact Sungrow Service Dept..
101	The grid frequency exceeds inverter allowable upper limit.	1. Check the grid frequency. 2. If the grid frequency exceeds the permissible range of inverter protection parameters, ask utility grid company for solution. 3. If the grid frequency is within the permissible range, contact Sungrow Service Dept..
102	The grid frequency is below the inverter allowable lower limit.	
106	The inverter is not grounded	Check whether there is a reliable inverter grounding line, if there is access to the ground, and the fault still exists, please contact Sungrow Service Dept..
200	The bus voltage is high.	1. Wait for inverter recovery after bus voltage lower. 2. If the fault occurs repeatedly, contact Sungrow Service Dept..
201	The bus voltage is too low.	1. Wait a moment for inverter recovery. 2. If the fault occurs repeatedly, contact Sungrow Service Dept..
202	PV current overcurrent	1. Wait for inverter recovery after DC current is reduced. 2. If the fault occurs repeatedly, contact Sungrow Service Dept..
205	AC output relay abnormal	1. Wait a moment for inverter recovery. 2. If the fault occurs repeatedly, contact Sungrow Service Dept..
307	DC power is too high	Check whether the configuration of PV is in the range indicated in the specification. If the fault occurs repeatedly, contact Sungrow Service Dept..

3.2 Exclusion of Liability

The content of these documents is periodically checked and revised where necessary. Discrepancies therefore may exist. Readers are cautioned that Sungrow reserves the right to make changes without notice. Please call us or visit our website at www.sungrowpower.com for the latest information. No guarantee is made for the completeness of these documents. Please contact our company or distributors to get the latest version.

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- Install or operate the product in unintended environment
- Install or operate the product without observing relevant safety regulations in the deployment location
- Ignore the safety warnings or instructions contained in all documents relevant to the product
- Install or operate the product under incorrect safety or protection conditions
- Alter the product or supplied software without authority
- Product malfunctions due to operation attached or neighboring devices running out of the allowed limit values
- Unforeseen calamity or force majeure

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- Decompiling, decoding or destroying the original program, including SolarInfo software and the embedded software, is prohibited.

3.3 About Us

Sungrow power supply is a China-leading manufacturer of various power electronics products for renewable energy generation systems. Our products include converters, inverters, battery chargers and other power supplies for distributable generation system in both grid-connected and stand-alone applications. The power rating of Sungrow products covers from several hundred watt to large mega-watt systems.

The pursuit of Sungrow is to help our customers acquire stable and clean power with minimum cost, maximum reliability and enhanced safety.

Contact Information

Should you have any questions or queries about this product, please contact us through the following information. We will be more than happy to assist you!

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Specifications are subject to changes without advance notice.

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