

Solis Display Messages

In this article, we will provide a comprehensive explanation for all messages generated by Solis inverters, ranging from operating messages to alarm messages. We'll not only decipher what these messages mean but also offer possible solutions to address them. For more in-depth troubleshooting guidance, you can explore the additional articles in this section.



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Grid Tied Inverters

Operating Status:

Message:	Description:	Solution:
Generating	Generating	No need to deal with, the inverter is in normal operation
Grid Off	Control inverter to turn off - Set the inverter to Gird ON	Set the inverter to Gird ON
LimByEPM	Inverter is under external control	1. Confirm whether the inverter is connected to an EPM/meter to do export control. 2. Confirm whether the inverter is controlled by an external third-party device. 3. Confirm whether the power setting of the inverter Power Control is limited
LimByVg	Inverter is under Volt-Watt working mode	1. Subject to local safety regulations, when the grid voltage is high, the Voltwatt working mode is triggered, which generally does not need to be dealt with; 2. The factory mistake may causes the mode to turn on. If you need to turn it off, you can turn it off in the LCD. Setting process: main menu→advanced setting→password 0010→STD mode setting→working mode →working mode: NULL→save and exit.
LimByVar	Inverter is under Volt-Var working mode	1. Subject to local safety regulations, when the grid voltage is high, the Voltvar working mode is triggered, which generally does not need to be dealt with; 2. The factory mistake may causes the mode to turn on. If you need to turn it off, you can turn it off in the LCD. Setting process: main menu→advanced setting→password 0010→STD mode setting→working mode →working mode: NULL→save and exit.
LimByPlmt	Inverter is under P Factor working mode	If you need to turn this mode off, you can turn it off in the LCD. Setting process: main menu→advanced setting→password 0010→STD mode setting→working mode →working mode: NULL→save and exit.

OpenRun	Open loop operation - No need to deal with, the inverter is in open loop operation state, only appear in the internal test environment.	No need to deal with, the inverter is in open loop operation state, only appear in the internal test environment.
SoftRun	Wait to start generating - Try to restart the inverter, if it is still not resolved, please contact the manufacturer's customer service.	Try to restart the inverter, if it is still not resolved, please contact the manufacturer's customer service.
Waiting	Wait to operate - Test whether the DC input voltage of the inverter reaches the minimum starting voltage.	Test whether the DC input voltage of the inverter reaches the minimum starting voltage.



Warning Messages:

Message:	Description:	Solution:
DcSpdFail	DC SPD fault	Restart the inverter. If it is still not resolved, please contact the manufacturer's customer service.
Fan Alarm	Internal Fan fault	Check whether the internal fan of the inverter is abnormal and does not start; try to restart the inverter.
Fan_H Alarm	External Fan fault	Check whether the external fan is abnormal and does not start; try to restart the inverter; refer to the manual to replace the external fan/clean the fan.
FuseFail	Fuse alarm on 125K- EHV-5G and Korean 100K with fuse model	Restart the inverter and replace the fuse referring to the manual. If it is still not eliminated, please contact the manufacturer's customer service.
Surge Alarm	Gird has surge	Grid has surge. It is for after-sale information analysis, doesn't affect inverter operation.

VgSpdFail	AC SPD fault	Restart the inverter. If it is still not resolved, please
		contact the manufacturer's customer service.



Alarm Messages:

(ordered by Alarm Code)

Message:	Alarm Code:	Description:	Solution:
OV-G-V 01		Grid voltage is higher than standard code's 1st level overvoltage limit for the set	1. If it happens accidentally, it may be a short-term abnormality of the grid. The inverter will resume
OV-G-V 02		peirod of time. Grid voltage transient value is over 1.35 times of rated voltage peak value.	normal operation after detecting that the grid is normal, without manual intervention. 2. Check if the standard is set
OV-G-V 03	1010	Grid voltage is higher than the 10min overvoltage limit in the standard code.	correctly. 3. If it occurs frequently, please check the grid voltage and the grid
OV-G-V 04		Grid voltage is higher than standard code's 2nd level overvoltage limit for the set peirod of time.	frequency if it is within the standard protection range of the inverter. If not, please check whether the AC side circuit breaker
OV-G-V 05		Grid voltage transient value is over 1.35 times of rated voltage peak value over 200ms.	and the output cable are connected properly. 4. If the grid voltage and grid frequency are not within the
UN-G-V	1011	Grid voltage is lower than the limit.	standard protection range of the inverter, and the AC side wiring is
OV-G-F	1012	Grid frequency is higher the limit.	confirmed to be correct, this alarm still appears frequently. After
UN-G-F	1013	Grid frequency is lower the limit.	obtaining the approval from the local power operator, please contact customer service to modify the inverter grid Over and under voltage/frequency protection points.
Backfeed_lac	1014	AC backfeed current	1. Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.

NO-Grid	1015	No grid	 Confirm whether the power grid is properly connected. Confirm whether the connected power grid is normal. Check if the Grid Standard is set correctly. If the grid connection is normal, you need to contact manufacturer's customer service with information of AV Voltage details and where voltage was measured.
G-PHASE	1016	Grid has unbalanced 3phase	 Confirm whether the power grid is properly connected. Confirm whether the connected power grid is normal. If the grid connection is normal, you need to contact manufacturer's customer service.
G-F-FLU	1017	Grid frequency is abnormal	 Confirm whether the power grid is properly connected. Confirm whether the connected power grid is normal. If the grid connection is normal, you need to contact manufacturer's customer service.
OV-G-I	1018	Grid output overcurrent	 Confirm whether the power grid is properly connected. Confirm whether the connected power grid is normal. If the grid connection is normal, you need to contact manufacturer's customer service.
IGFOL-F	1019	Grid current tracking error	1. Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.
PHASE- FAULT	101A	Abnormal grid phase angle	1. Check whether the AC side wiring is correct. 2. Check whether the grid phase angle is 120°. 3. Restart the inverter. If it is still not resolved, please contact the manufacturer's customer service.
OV-DC	1020	DC overvoltae	Check whether the input voltage exceeds the maximum input

			voltage of the inverter; 2. Restart the inverter 3. If it is still not ruled out, please contact the manufacturer's customer service.
BoostFal	1020	DC boost circuit fault	Restart the inverter. If it is still not resolved, please contact the manufacturer's customer service.
OV-BUS	1021	DC bus overvoltage	 Check whether the input voltage exceeds the maximum input voltage of the inverter; Restart the inverter If it is still not ruled out, please contact the manufacturer's customer service.
UNB-BUS	1022	DC bus voltage and DC bus half voltage is not correct	 Check whether the inverter bus voltage and bus half voltage are correct, Restart the inverter If it is still not ruled out, please contact the manufacturer's customer service.
UN-BUS02	1023	Abnormal display of DC bus voltage	
UN-BUS	1023	DC bus voltage is too low	1. Check whether the input voltage is too low 2. Restart the inverter 3. If it is still not ruled out, please contact the manufacturer's after sales engineer.
DC-INTF.	1027	Abnormal DC input current	 Check whether the DC wiring is falsely connected or damaged. Restart the inverter. If it is still not resolved, please contact the manufacturer's customer service.
Reve-DC	1028	DC reversely connected.	 Check whether the DC wiring is reversed. Check whether the wire has correct size. Check if correct Grid Standard is set. Restart the inverter If it is still not resolved, please

			contact the manufacturer's customer service.
PvMidIso	1029	PV middle point low insulation protection	1. Check the time when the error is reported. If the error is reported in the early morning or late afternoon or on a rainy day, it is a normal phenomenon. The moisture in the air increases, the impedance becomes low, and it is easy to report the ISO; 2. Use the resistance level of the multimeter to measure the resistance of the PV string to the ground , and the resistance should be above 20kΩ; if the impedance is too low, please check the insulation between the PV string and the ground, or make a new cable between panel and the inverter 3. Use a multimeter to measure the resistance of the N wire and the ground wire. This value should be close to zero. Otherwise, there is a problem with the connection between the AC N wire and the ground wire. Please check the AC wiring; 4. Please check whether the software version is the latest. You can try to update the software (due to the continuous changes in regulations, the ISO detection threshold is also changed along with version upgrade) 5. If the above is normal, please contact after-sales service.
PVGndRun	1029	The PV terminal of the inverter is grounded during operation.	1. Check that the PV string connected to the inverter is grounded, and use a multimeter to check the DC gear.
Vbus-Sam	102A	DC bus voltage and DC bus half voltage is not correct.	 Check whether the inverter bus voltage and bus half are correct Restart the inverter If it is still not ruled out, please contact the manufacturer's customer service.

GRID-INTF.	1030	Grid interference	1. Multiple inverters installed in line and the grid voltage wave is non-ideal. 2. Grid filters need to be set. Changing the grid filter in the "Special Setting" may solve the problem. 3. Downstream equipment needs to be changed or repaired. Restart the inverter. If it is still not resolved, please contact the manufacturer's customer service.
INI-FAULT	1031	DSP initializing fault.	Restart the inverter. If it is still not resolved, please contact the manufacturer's customer service.
OV-TEM	1032	The internal temperature near IGBTs is beyond the limitation. Typically 90°C for 1P inverters 115°C for 3P inverters	1: Check whether the installation location of the inverter meets the requirements of the user manual. (Installation in direct sunlight? Inverter mounted incorrectly (angle)? Faulty temperature probe? Loose connection of temperature probe?) 2: Try to lower the ambient temperature 3: Turn off the inverter and restart it after 15 minutes 4: If the error still exists, please contact the manufacturer's customer service.
PV ISO-PRO 01	1033	Low PV insulation protection	1. Check the time when the error is reported. If the error is reported in
PV ISO-PRO 02	1033	Low PV insulation protection	the early morning or late afternoon or on a rainy day, it is a normal phenomenon. The moisture in the air increases, the impedance becomes low, and it is easy to report the ISO; 2. Use the resistance level of the multimeter to measure the resistance of the PV string to the ground , and the resistance should be above $20k\Omega$; if the impedance is too low, please check the insulation between the PV string and the ground, or make a new cable between panel and the inverter

			3. Use a multimeter to measure the resistance of the N wire and the ground wire. This value should be close to zero. Otherwise, there is a problem with the connection between the AC N wire and the ground wire. Please check the AC wiring; 4. Please check whether the software version is the latest. You can try to update the software (due to the continuous changes in regulations, the ISO detection threshold is also changed along with version upgrade) 5. If the above is normal, please contact after-sales service.
ILeak-PRO 01 ILeak-PRO 03 ILeak-PRO 04	1034	Leakage current protection	1. Connect each string of components individually in turn to determine whether it is caused by a single string problem. If there is no error when inserting one of the string, it can be determined that it is caused by the string problem. Check whether the problematic string has broken insulation or other problems. A: Damaged PV wire insulation. B: PV wire is incorrect gauge. C: Faulty transformer downstream. D: Incorrect wiring of RSD. E: Buried AC wires are saturated with Wire F: AC Wire is low quality 2. If this error occurs only on a rainy day or in the morning, the leakage current is too large due to the aging of the module. The error will be automatically cleared when it is sunny or when the air humidity decreases. 3. This issue may be solved by remotely upgrading the software. Please contact our customer support team.
RelayChk- FAIL	1035	Relay selfcheck protection	Restart the inverter. If it is still not resolved, please contact the manufacturer's customer service.

DSP-B-Sam- Fau	1036	Missing or error from DSP software	1. Check whether the inverter's DSP software version number exists, and try to restart the inverter. If it is still not ruled out, please contact the manufacturer's customer service.
DSP-B-FAULT	1036	fault between master DSP and slave dsp	Restart the inverter. If it is still not resolved, please contact the manufacturer's customer service.
DSP-B-Com- Fau	1036	DSP software is missing	Restart the inverter. If it is still not resolved, please contact the manufacturer's customer service.
DCInj-FAULT	1037	DC injection component too large.	Restart the inverter. If it is still not resolved, please contact the manufacturer's customer service.
12Power- FAULT	1038	12V power supply fault	Restart the inverter. If it is still not resolved, please contact the manufacturer's customer service.
ILeak-Check	1039	RCMU Selfcheck protection	Restart the inverter. If it is still not resolved, please contact the manufacturer's customer service.
UN-TEM	103A	Low temperature	Check whether the ambient temperature is too low and restart the inverter. If it is still not resolved, please contact the manufacturer's customer service.
AFCI-Check	1040	AFCI selfcheck protection	Restart the inverter. If it is still not resolved, please contact the manufacturer's customer service.
ARC- FAULT	1041	Detected DC arc in the DC circuit	Check if there is an arc in the inverter DC connection. 1. Are the MC4 Heads loose? 2. Are the MC4 heads broken? 3. Check Connection in inverter terminal or fuse block. 4. Check if connection in J-Box is bad/loose. 5. Are any PV panels cracked/damaged? 6. Check Firmware. 7. Check sensitivity level. 8. Try restarting the inverter.

			If it is still not resolved, please contact the manufacturer's customer service.
IG-AD	1047	Grid current sampling error.	Restart the inverter. If it is still not resolved, please contact the manufacturer's customer service.
IGBT-OV-I	1048	IGBT overcurrent	Restart the inverter. If it is still not resolved, please contact the manufacturer's customer service.
Failsafe	2010	EPM communication fail	Check the communication connection between the inverter and EPM/meter.
L&PE FAULT	F017	The three phases on the AC side are connected to the ground.	Restart the inverter, if it is still not resolved, please contact the manufacturer's customer service; check the AC side wiring; check whether there is a ground fault on the AC side.
DSP- SelfCheck	1058	DSP firmware does not match the hardware	1. Check whether the software version burned by the inverter is correct, and whether the software model number is consistent with the model number.
Vg-Sample	1059	The grid voltage sampling value is deviated	1. Check whether there is an error between the AC voltage displayed by the inverter and the AC voltage detected by the multimeter. If there is an error, try to restart the inverter. If it is still not eliminated, please contact the manufacturer.



Energy Storage Inverters

Operating Status:

Message:	Description:	Solution:
Off	Control inverter to turn off - Set the inverter to Gird ON	Set the inverter to Gird ON
GridToLoad	The loads are support by Grid directly	No need to deal with it.
LmtByDRM	DRM Function is Enabled	No need to deal with it.
LimByEPM	Inverter is under external control	 Confirm whether the inverter is connected to an EPM/meter to do export control. Confirm whether the inverter is controlled by an external third-party device. Confirm whether the power setting of the inverter Power Control is limited
LmtByFreq	The output power is limited by frequency	The output power is limited by frequency
LimByVg	Inverter is under Volt-Watt working mode	 Subject to local safety regulations, when the grid voltage is high, the Voltwatt working mode is triggered, which generally does not need to be dealt with; The factory mistake may causes the mode to turn on. If you need to turn it off, you can turn it off in the LCD. Setting process: main menu→advanced setting→password 0010→STD mode setting→working mode →working mode: NULL→save and exit.
LmtByTemp	The output power is limited by temperature	No need to deal with, the inverter is in normal operation
LimByVar	Inverter is under Volt-Var working mode	 Subject to local safety regulations, when the grid voltage is high, the Voltvar working mode is triggered, which generally does not need to be dealt with; The factory mistake may causes the mode to turn on. If you need to turn it off, you can turn it off in the LCD. Setting process: main menu→advanced setting→password 0010→STD mode

		setting→working mode →working mode: NULL→save and exit.
LmtByVg	Inverter is under Volt-Watt working mode	 Subject to local safety regulations, when the grid voltage is high, the Voltwatt working mode is triggered, which generally does not need to be dealt with; The factory mistake may causes the mode to turn on. If you need to turn it off, you can turn it off in the LCD. Setting process: main menu→advanced setting→password 0010→STD mode setting→working mode →working mode: NULL→save and exit.
LmtByUnFr	The output power is limited by the low frequency.	No need to deal with it.
Normal	Normal Operation	
OpenRun	Open loop operation	No need to deal with, the inverter is in open loop operation state, only appear in the internal test environment.
SoftRun	Wait to start generating	Try to restart the inverter, if it is still not resolved, please contact the manufacturer's customer service.
Standby	Inverter is operating in Off- Grid Mode.	No need to deal with, the inverter is in normal operation.
StandbySynoch	The inverter operation status is turned to Grid-tied from Off-Grid mode.	No need to deal with it.
Waiting	Wait to operate.	Test whether the DC input voltage of the inverter reaches the minimum starting voltage.



Warning Messages:

(Alphabetical order)

Message:	Description:	Solution:
Fan Alarm	Internal Fan fault	1.Check whether the internal fan of the inverter is abnormal and does not start; 2. Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.
Over-Load	Overload Fault	1.The Backup load power is too large or some inductive loads have large temporary start-up power. 2.Please trun off some backup loads or the inductive backup loads.
Surge Alarm	Gird has surge	Grid has surge. Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.



Alarm Messages:

(ordered by Alarm Code)

Message:	Alarm Code:	Description:	Solution:
OV-G-V 01		Grid voltage is higher than standard code's 1st level overvoltage limit for the set	Confirm whether the connected power grid is normal. Confirm whether AC cables of power grid are properly connected.
OV-G-V 02	1010	peirod of time. Grid voltage transient value is over 1.35 times of rated	3. Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.
OV-G-V 03		voltage peak value. Grid voltage is higher than the 10min overvoltage limit in the standard code.	

OV-G-V 04		Grid voltage is higher than standard code's 2nd level overvoltage limit for the set period of time.	
OV-G-V 05		The RMS value of Grid voltage is higher than the setting value.	
UN-G-V01	1011	Grid voltage is lower than standard code's 1st level overvoltage limit for the set peirod of time.	
UN-G-V02		Grid voltage transient value is under 0.85 times of rated voltage peak value.	
OV-G-F01	1012	Grid frequency is higher than standard code's 1st level over-frequency limit for the set period of time.	
OV-G-F02		Grid frequency is higher than standard code's 2nd level over-frequency limit for the set period of time.	
UN-G-F01	1013	Grid frequency is lower than standard code's 1st level over-frequency limit for the set period of time.	
UN-G-F02		Grid frequency is lower than standard code's 2nd level over-frequency limit for the set period of time.	
NO-Grid	1015	No grid	 Confirm whether the power grid is properly connected. Confirm whether the connected power grid is normal. Check if the Grid Standard is set correctly. If the grid connection is normal, you need to contact manufacturer's customer

			service with information of AV Voltage details and where voltage was measured.
G-PHASE	1016	Grid has unbalanced 3phase	 Confirm whether the connected power grid is normal. Confirm whether AC cables of power grid are properly connected. Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.
G-F-FLU	1017	Grid frequency is abnormal	 Confirm whether the connected power grid is normal. Confirm whether AC cables of power grid are properly connected. Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.
OV-G-I	1018	Phase A current RMS overcurrent	 Confirm whether the connected power grid is normal. Confirm whether AC cables of power grid are properly connected. Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.
IGFOL-F	1019	Grid current tracking error	 Confirm whether the connected power grid is normal. Confirm whether AC cables of power grid are properly connected. Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.
OV-DC01	1020	DC1 overvoltage	1. Confirm whether the PV voltage is abnormal. (maybe too many modules in series?) 2. Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.
OV-DC02	1020	DC2 overvoltage	 Confirm whether the PV voltage is abnormal. (maybe too many modules in series?) Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.
OV-BUS	1021	DC bus overvoltage	1. Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.

UNB-BUS	1022	DC bus voltage and DC bus half voltage is not correct.	Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.
UN-BUS01		DC bus undervoltage	Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.
UN-BUS02	1023	Abnormal display of DC bus voltage	Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.
OV-DCA-I	1025	DC1 current average overcurrent	1. Check the string for faults. (polarity) 2. Try to remove the faulty string from the MPPT. Otherwise, it might be some internal fault. 3. Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.
OV-DCB-I	1026	DC2 current average overcurrent	1. Check the string for faults. (polarity) 2. Try to remove the faulty string from the MPPT. Otherwise, it might be some internal fault. 3. Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.
DC-INTF.	1027	Abnormal DC input current	 Check whether the DC wiring is falsely connected or damaged. Restart the inverter. If it is still not resolved, please contact the manufacturer's customer service.
GRID-INTF.	1030	Grid interference	1. Multiple inverters installed in line and the grid voltage wave is non-ideal. 2. Grid filters need to be set. Changing the grid filter in the "Special Setting" may solve the problem. 3. Downstream equipment needs to be changed or repaired. Restart the inverter. If it is still not resolved, please contact the manufacturer's customer service.
GRID-INTF02		Grid interference 02	1. Check whether the Grid is severly distored. 2. Check whether the AC cables has realliable connection.

INI-FAULT	1031	AD zero-drift overlimit	Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.
OV-TEM	1032	The internal temperature near IGBTs is beyond the limitation. Typically 90°C for 1P inverters 115°C for 3P inverters	1: Check whether the installation location of the inverter meets the requirements of the user manual. (Installation in direct sunlight? Inverter mounted incorrectly (angle)? Faulty temperature probe? Loose connection of temperature probe?) 2: Try to lower the ambient temperature 3: Turn off the inverter and restart it after 15 minutes 4: If the error still exists, please contact the manufacturer's customer service.
PV ISO-PRO 01	1033	PV Negetive to ground fault	Check the time when the error is reported. If the error is reported in the
PV ISO-PRO 02	1033	PV Positive to ground fault	early morning or late afternoon or on a rainy day, it is a normal phenomenon. The moisture in the air increases, the impedance becomes low, and it is easy to report the ISO; 2. Use the resistance level of the multimeter to measure the resistance of the PV string to the ground, and the resistance should be above 20kΩ; if the impedance is too low, please check the insulation between the PV string and the ground, or make a new cable between panel and the inverter 3. Use a multimeter to measure the resistance of the N wire and the ground wire. This value should be close to zero. Otherwise, there is a problem with the connection between the AC N wire and the ground wire. Please check the AC wiring; 4. Please check whether the software version is the latest. You can try to update the software (due to the continuous changes in regulations, the ISO detection threshold is also changed along with version upgrade) 5. If the above is normal, please contact after-sales service.
ILeak-PRO 01	1034	Leakage current protection 01(30mA)	1. Connect each string of components individually in turn to determine whether it is caused by a single string problem. If there is no error when inserting one of the string, it can be determined that it is

ILeak-PRO 02	1034	Leakage current protection 02(60mA)	caused by the string problem. Check whether the problematic string has broken insulation or other problems. A: Damaged PV wire insulation. B: PV wire is incorrect gauge.
ILeak-PRO 03	1034	Leakage current protection 03(150mA)	C: Faulty transformer downstream. D: Incorrect wiring of RSD. E: Buried AC wires are saturated with Wire F: AC Wire is low quality
ILeak-PRO 04	1034	Leakage current protection 04(300mA)	2. If this error occurs only on a rainy day or in the morning, the leakage current is too large due to the aging of the module. The error will be automatically cleared when it is sunny or when the air humidity decreases. 3. This issue may be solved by remotely upgrading the software. Please contact our customer support team.
RelayChk-FAIL	1035	Relay Fault	1. Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.
DSP-B-FAULT	1036	Abnormal communication between Master and Slave DSP	1. Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.
DCInj-FAULT	1037	DC components of AC current exceeds limitation.	 Confirm whether the connected power grid is normal. Confirm whether AC cables of power grid are properly connected. Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.
12Power-FAULT	1038	12V power supply fault	1. Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.
UN-TEM	103A	Low temperature	Check whether the ambient temperature is too low and restart the inverter. If it is still not resolved, please contact the manufacturer's customer service.
ILeak_Check	1039	Leakage current sensor Failure	1. Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.

AFCI-Check	1040	AFCI selfcheck protection	Restart the inverter. If it is still not resolved, please contact the manufacturer's
			customer service.
ARC- FAULT	1041	Detected DC arc in the DC circuit	Check if there is an arc in the inverter DC connection. 1. Are the MC4 Heads loose? 2. Are the MC4 heads broken? 3. Check Connection in inverter terminal or fuse block. 4. Check if connection in J-Box is bad/loose. 5. Are any PV panels cracked/damaged? 6. Check Firmware. 7. Check sensitivity level. 8. Try restarting the inverter. If it is still not resolved, please contact the manufacturer's customer service.
IG-AD	1047	Grid current sampling error.	Check whether the Grid is severly distored. Check whether the AC cables has realliable connection.
IGBT-OV-I	1048	IGBT overcurrent	Restart the inverter. If it is still not resolved, please contact the manufacturer's customer service.
OV-lgTr	1050	Grid current temporarily overcurrent	1. Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.
OV-Vbatt-H/OV- BUS-H	1051	Battery hardware overvoltage/Vbus	 Check whether the battery circuit breaker has triggered. Check whether the battery was damaged.
OV-ILLC	1052	LLC hardware overcurrent	Check whether Backup load is overloaded. Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.
OV-Vbatt	1053	Battery overvoltage	Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.
UN-Vbatt	1054	Battery undervoltage	Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.
NO-Battery	1055	Battery is not connected	Check whether the battery has been well connected.

			2. Check whether the circuit breaker or fuse have been triggered.
OV-Vbackup	1056	The backup voltage exceeds the setting value	 Check whether the Backup terminal wiring is normal. Restart the whole system, if it is still not ruled out, please contact the manufacturer's customer service.
Over-Load	1057	The backup load is overloaded	1. Check whether the backup load is overloaded. 2. Restart the whole system, if it is still not ruled out, please contact the manufacturer's customer service.
DspSelfChk	1058	Abnormal Self- detection of DSP	1. Restart system and comfirm whether the fault still exists.
Failsafe	2010	EPM communication cables aren't connected.	1.Check the communication connection between inverter and Meter, confirm whether the internal EPM function has been enabled. 2.Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.
MET_Comm_FAIL	2011	Meter communication cables aren't connected	1.Check Meter communication cables. 2.Confirm whether the Meter brand has been selected correctly in the inverter LCD. 3.Restart the inverter, if it is still not ruled out, please contact the manufacturer's customer service.
CAN_Comm_FAIL	2012	Battery Communication Failure	Check whether the communication cable of meter is damaged.
DSP_Comm_FAIL	2014	DSP Communication Failure	1. Restart DSP to ensure whether the fault is existing.
Alarm1-BMS	2015	Battery BMS Alarm	1. Restart the Battery to ensure whether the fault is existing.
BatName-FAIL	2016	Wrong selection of battery brand	1. Please confirm whether the selected battery brand is the same as actual battery.
Alarm2-BMS	2017	Battery BMS Alarm 2	1. Restart the Battery to ensure whether the fault is existing.
DRM_LINK_FAIL	2018	DRM Connection Failure	Confirm whether DRM cable connection is realiable.

LG-BMS-Fault	2019	LG Battery BMS Fault	Restart the battery and contact battery manufacture for handling if the fault still exists.
LG-Comm-FAIL	2021	LG Battery Communication Failure	Restart the battery and contact battery manufacture for handling if the fault still exists.

Export Power Manager (EPM)

Operating Status:

Message:	Description:	Solution:
Normal	Normal operation	1. No need to deal with it, EPM is in normal operation.

Alarm Messages:

Message:	Description:	Solution:
CT-Failsafe	CT lost the connection with EPM	1. Check the CT cables of EPM, the sencondary side of CT is not allowed to be disconnected before the primary side of CT has been disconnected.
M-ComFailSafe	Abnormal Meter communication	1. Restart the EPM, if it is still not ruled out, please contact the manufacturer's customer service.
M-VFailSafe	Abnormal Meter voltage	1. Restart the EPM, if it is still not ruled out, please contact the manufacturer's customer service.
RS485AllFail	EPM lost the RS485 connection with all inverters in the whole system.	Check all communication connection between EPM and inverters.

RS485 Fail	EPM lost the RS485	1. Check the communication cables between EPM
	connection with one or	and inverters.
	more inverters.	

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