



WARNING!

All Warnings and Cautions in this manual should be adhered to while troubleshooting an error.

Tous les avertissements et précautions mentionnés dans ce manuel doivent être aussi appliqués en cas de dépannage.

Error # Single Phase	Error # Three Phase	LCD Message	Description	Troubleshooting
N/A	1-4	Fan # Failure	One of the fans is not working	Check the fan status screen (. If required, replace the fan (a replacement kit is available from SolarEdge).
4, 5, 8, 12, 18-23, 39, 42, 45	45, 48, 50-53, 94, 108-111, 113	SW Error	Internal software error	If the fault persists, contact SolarEdge Support.
N/A	112	Wrong AC connection	The lines connections to the inverter are incorrect, for example: AC line 1 from the grid is connected to line 2 at the inverter so there is no 120deg between L2 to L1 and L3 to L2 at the inverter side.	Switch between L1 and L2 or L2 and L3 connections
9, 13	N/A	AC Current Surge	The internal hardware that measures AC current has measured substantially high output currents. This may occur because of changes in the AC voltage or a switching load near the site.	If the fault persists: <ul style="list-style-type: none"> ◦ Check the AC connection to the inverter ◦ Check with the grid operator if a large surge source or irregular load exists near the site. ◦ If the grid does not have problems contact SolarEdge support.
10, 37, 38	76, 77, 90	Ground Current -RCD	Ground current surge. The internal hardware that measures ground fault has measured substantially high ground currents.	Ground faults may occur due to insufficient insulation to the ground.

Error # Single Phase	Error # Three Phase	LCD Message	Description	Troubleshooting
				<p>WARNING!</p> <p>ELECTRICAL SHOCK HAZARD. Do not touch uninsulated wires when the inverter cover is removed.</p> <p><i>RISQUE D'ÉLECTROCUTION, ne touchez pas les fils non isolés lorsque le couvercle de l'onduleur est retiré.</i></p> <p></p> <p>Only a qualified technician should handle this problem, and only after taking proper precautions.</p> <ol style="list-style-type: none"> 1. Turn the inverter ON/OFF switch to OFF. 2. Wait five minutes for the input capacitors to discharge. 3. Disconnect the AC breaker. 4. Disconnect the DC inputs. 5. Connect each DC string separately, turn the AC and the inverter ON/OFF switch to ON, until the error appears for the faulty string. <ul style="list-style-type: none"> o Do not connect strings with a grounding fault to the inverter. o For further documentation about possible ground current error sources and solutions, contact SolarEdge Support. o A certified installer must fix the faulty string before connecting it to the inverter.

Error # Single Phase	Error # Three Phase	LCD Message	Description	Troubleshooting
14	58/59/60	AC Voltage Too High (Line 1/2/3)	AC voltage surge. The internal hardware that measures AC voltage has measured substantially high sudden output voltage	If the fault persists: <ul style="list-style-type: none"> Check the AC connection to inverter. Verify that the inverter is set to the correct country. Check with the grid operator if a large surge source or irregular load exists near the site. Verify that the output wire size matches the distance between the inverter and the location of the grid connection. Use a larger gauge wire for the AC output. Refer to the <i>AC Wiring Application Note</i>, available on the SolarEdge website at http://www.solaredge.us/files/pdfs/application-note-recommended-wiring.pdf
15	102	DC Voltage Too High	DC overvoltage. The input DC voltage exceeds the maximum supported level.	The SolarEdge system normally eliminates DC overvoltage errors: When DC overvoltage is detected, the inverter shuts off the power optimizers and restarts. If the fault persists: <ul style="list-style-type: none"> Turn OFF the inverter ON/OFF switch. If after five minutes, the LCD panel does not show a low safety voltage (1V per optimizer), check which string is malfunctioning and recheck its connections to the inverter. Proceed according to <i>Power Optimizer Troubleshooting</i> on page 94 Re-commission all inverters in the site, as described in <i>Commissioning the Installation</i> on page 43

Error # Single Phase	Error # Three Phase	LCD Message	Description	Troubleshooting
16	123	Hardware Error	Internal hardware error	If the fault persists, contact SolarEdge Support.
17	104	Temperature Too High	Over temperature	If the fault persists: <ul style="list-style-type: none"> Verify that proper clearances exist around the inverter. Make sure that the heat-sink fins are clear of dirt and obstacles. Reinstall in a cooler location.
24	N/A	Faulty Temp. Sensor	Broken or unconnected Temperature sensor	If the fault persists, contact SolarEdge Support.
25	121	Isolation Fault	PV Isolation fault. The inverter has detected the PV solar array is not properly isolated from ground earth. The isolation is checked each time the inverter starts up.	If the fault persists: <ul style="list-style-type: none"> Check the PV installation for isolation problems and ground leakage. Only a certified PV installer must fix the faulty string before connecting it to the inverter. Refer to www.solaredge.us/files/pdfs/application_note_isolation_fault_troubleshooting.pdf
26	122	Faulty AC Relay	The AC relay failed during wake-up tests.	If the fault persists: <ul style="list-style-type: none"> Disconnect inverter from AC grid. Contact SolarEdge Support.
27, 153	95, 106, 120, 125, 126	Hardware Error	Internal hardware error.	If the fault persists, contact SolarEdge support.
28	N/A	RCD Sensor Error	The RCD measurement has failed during the wake-up test phase.	If the fault persists, contact SolarEdge support.

Error # Single Phase	Error # Three Phase	LCD Message	Description	Troubleshooting
29-30	N/A	Phase Balance Error	The monitoring hardware that checks the balance of each phase (L1-N and L2-N) has exceeded allowed limit.	<ul style="list-style-type: none"> o Check the grid connection. o Check the GND wire connection. o Check the L1, L2 and Neutral wire connections. o Verify symmetric load between L1 and L2. o Consult the local grid authority.
31, 33	64/65/66	AC Voltage Too High (Line 1/2/3)	Grid voltage is above the limit permitted in this country.	<ul style="list-style-type: none"> o Verify that the inverter is set to the correct country. o Turn OFF the inverters in the site and verify AC grid voltage. o If the inverter is located far from the connection point to the grid, use a larger gauge AC wire. o Consult the grid operator. o If permitted by local authorities, use the SolarEdge Configuration Tool to change the settings.
32, 41	61/62/63, 67/68/69	AC Voltage Too Low	Grid voltage is below the limit permitted in this country.	<ul style="list-style-type: none"> o Verify that the inverter is set to the correct country. o Consult the grid operator. o If permitted by local authorities, use the SolarEdge Configuration Tool to change the settings.
34	79/80/81	AC Freq Too High (Line 1/2/3)	Grid frequency is above the limit permitted in this country.	Handle this in the same manner as error 32.
35	82/83/84	AC Freq Too Low (Line 1/2/3)	Grid frequency is below the limit permitted in this country.	Handle this in the same manner as error 32.
36	72/74/75	DC Injection (Line 1/2/3)	DC feed detected on the AC output.	If the fault persists, contact SolarEdge support.

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40	N/A	Islanding	AC grid voltage malfunctions. The inverter has shut off due to islanding.	When AC voltage returns, the inverter should restart after some time (time depends on country grid connection codes). If the problem persists, then consult with the grid operator whether frequent AC disruptions have occurred at the site.
43	N/A	Internal HW Error	Internal hardware error.	If the fault persists, contact SolarEdge support.
44	44	No Country Selected	The inverter is not configured to any country.	Select the country, as described in <i>Country and Grid</i> on page 57.
46		Phase Unbalance		Change the Phase Balance option in the Inverter's LCD menu to Disable . Refer to <i>Power Control</i> on page 61, and to the <i>SolarEdgePhase Balancing Manual</i> , available on the SolarEdge website at http://www.solaredge.us/files/pdfs/phase_balancing_connection_guide.pdf
N/A	103, 119	UDC Min / DC Voltage Too Low	The input DC voltage is below the minimum level that is supported.	Turn the inverter OFF and then ON. If this fault persists, contact SolarEdge support.
N/A	49	Communication Error	Internal software error.	If this fault persists, contact SolarEdge support.
N/A	78	Grid Sync Error	Grid voltage or frequency is unstable.	If this fault persists, contact SolarEdge support.
N/A	91/92/93 (TZ L1/L2/L3)	AC Over Current Line	Grid error.	If this fault persists, contact SolarEdge support.

Error # Single Phase	Error # Three Phase	LCD Message	Description	Troubleshooting
	96/97/98 (Iac L1/L2/L3 Max).	1/2/3		
N/A	99-101	AC Voltage Too High Line 1/2/3	Grid error.	Turn the inverter OFF and then ON. If this fault persists, contact SolarEdge support.
N/A	105	Temperature Too Low	Under temperature.	If this fault persists, reinstall the inverter in a warmer place.
N/A	124	Ground Current – RCD	Internal hardware error.	If this fault persists, contact SolarEdge support.
150, 151	150, 151	Arc Fault Detected	An arc was detected on the DC side.	Refer to <i>Inverter Arc Detection and Interruption</i> on page 123.
152	152	Arc detector self-test failed	The arc detector is checked every time the inverter starts up. The internal hardware that measures arcs failed during wake-up tests.	Refer to <i>Inverter Arc Detection and Interruption</i> on page 123.