

/ SolarEdge Commercial Installation Checklist

Version 2.0 - May 2021

Project Name:
Site Address:
System Size (DC):
AC/DC Oversizing:
Commissioned by:

COMMISSIONING PREREQUISITES:

- Coordinate site access to the array, inverters, AC and communications equipment.
- Verify SolarEdge user access to SetApp and the site in SolarEdge monitoring portal.
- Verify DC strings properly terminated.
- Verify and record all string polarity and correct safety voltages.
- Verify AC conductors properly terminated.
- Verify AC grid voltages within range (measured at the inverters).
- All SolarEdge equipment mounted per specifications.
- Verify communications are established with the SolarEdge monitoring portal.

RECOMMENDED PHOTOS:

- Main service interconnection.
- Inverter & AC equipment Installation.
- Inverter AC & DC wiring.
- Sample of power optimizer mounting
- Communications cabinet or method.
- RS485 terminations at Inverters and gateways.
- Arrays/sub-arrays.

SITE MAPPING:

- | | | |
|--|-----|----|
| <input type="checkbox"/> SolarEdge monitoring portal Site ID: | | |
| <input type="checkbox"/> Inverter (and SolarEdge Gateways if present) placard number is consistent with monitoring portal IDs. | Yes | No |
| <input type="checkbox"/> Monitoring portal's physical layout reflects as-built conditions. | Yes | No |
| <input type="checkbox"/> Power optimizer serial numbers scanned to module locations (Use SolarEdge SiteMapper app). | Yes | No |
| <input type="checkbox"/> Power optimizer stringing completed in the monitoring portal (as built conditions). | Yes | No |

Notes:

POWER OPTIMIZER INSTALLATION & DC WIRING:

- | | | |
|---|-----|----|
| <input type="checkbox"/> Inverter Installation Checklist: | | |
| <input type="checkbox"/> Power optimizers bonded/grounded properly to the mounting structure | Yes | No |
| <input type="checkbox"/> Power optimizers bonded/grounded properly to the mounting structure | Yes | No |
| <input type="checkbox"/> Spot check for correct PV connections at the module, between arrays and in homeruns | | |
| <input type="checkbox"/> All mated connectors are compatible. | Yes | No |
| <input type="checkbox"/> Field-made MC4 connections are installed correctly | Yes | No |
| <input type="checkbox"/> All jumpers and adaptors meet SolarEdge guidelines. Y | Yes | No |
| <input type="checkbox"/> Adequate wire management to ensure long term system integrity & safety. (free from water intrusion, pests, abrasion, or other hazards) | Yes | No |
| <input type="checkbox"/> DC strings terminated at inverter in accordance with installation manual: | Yes | No |
| <input type="checkbox"/> Verify and record all String Polarity and correct Safety Voltages (free air test—not landed on inverter terminals) | | |

Notes:

INVERTER INSTALLATION CHECKLIST:

| | | | |
|--------------------------|---|-----|----|
| <input type="checkbox"/> | Inverters are mounted in accordance with installation manual. | Yes | No |
| <input type="checkbox"/> | Inverter AC voltages are verified to be within range prior to energizing the inverters. | Yes | No |
| <input type="checkbox"/> | Firmware is upgrade via SetApp (verify and record same DSP version on all inverter units) | Yes | No |
| <input type="checkbox"/> | CPU: | | |
| <input type="checkbox"/> | DSP1: | | |
| <input type="checkbox"/> | DSP2: | | |
| <input type="checkbox"/> | Country code configuration verified. | Yes | No |
| <input type="checkbox"/> | Special grid requirement configuration verified (if applicable). (Special grid requirements if applicable). | Yes | No |
| <input type="checkbox"/> | All power optimizers paired. | Yes | No |
| <input type="checkbox"/> | All inverters achieve expected production. | Yes | No |

Notes:

THREE PHASE INVERTER WITH SYNERGY TECHNOLOGY INVERTER INSTALLATION CHECKLIST (IF APPLICABLE):

| | | | |
|--------------------------|--|-----|----|
| <input type="checkbox"/> | AC Terminations are properly completed in accordance with inverter manual. | Yes | No |
| <input type="checkbox"/> | Tongue Lugs are crimped in accordance with lug manufacturer specifications | Yes | No |
| <input type="checkbox"/> | Lugs are compatible with AC conductors and inverter terminals. | Yes | No |
| <input type="checkbox"/> | Lugs are insulated with properly rated heat-shrink or equivalent. | Yes | No |
| <input type="checkbox"/> | Verify all connections to Synergy units are properly connected and safety rings are installed. | Yes | No |
| <input type="checkbox"/> | Verify in SetApp all Synergy unit serial numbers and expected production. | Yes | No |

Notes:

COMMUNICATION CHECKLIST:




| | | | |
|--------------------------|---|-----|----|
| <input type="checkbox"/> | Leader device connected to the SolarEdge server and displays "S_OK" | Yes | No |
| <input type="checkbox"/> | RS485 properly wired. (Strongly recommend shielded three conductor twisted pair plus a drain) | Yes | No |
| <input type="checkbox"/> | All follower inverters detected (if applicable). | Yes | No |
| <input type="checkbox"/> | If a third-party communications setup is being used. | | |
| <input type="checkbox"/> | Verify Modbus ID for each SolarEdge device is set correctly. | Yes | No |
| <input type="checkbox"/> | Verify baud rate is the same between platforms. | Yes | No |
| <input type="checkbox"/> | Sensors (if installed) are reporting expected values. | Yes | No |
| <input type="checkbox"/> | Modbus energy meters (if installed) are reporting expected values. | Yes | No |

Checklist completed by:

Notes/Issues/Concerns/Photos

About SolarEdge

SolarEdge is a global leader in smart energy technology. By deploying world-class engineering capabilities and a relentless focus on innovation, we create smart energy products and solutions that power our lives and drive future progress.

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