

SolarEdge UL 3141 Power Control System (PCS)

Power Export Limiting at Commercial & Industrial Scale



Improve Interconnection Timelines, Avoid Utility Upgrades, Lower Project Costs

SolarEdge inverters, together with a compatible meter and current transformers (CTs), form a UL 3141 listed PCS for export limitation — a certified solution built for commercial-scale projects.

Simple, verified setup. Configuration via the SolarEdge GO app.

Key Advantages



Lower CapEx

- / No custom relays or programming to buy, commission, or maintain
- / Avoid utility-service and pole/pad transformer upgrades
- / Up to 60% lower balance-of-system cost



Get to Approval Faster

- / Meets utility export requirements
- / Speeds the interconnection permit and approval process
- / Skips the distribution-impact study required of exporting systems



Add PV, Keep NEM Status

- / Add a controlled PV branch without increasing site export
- / Helps preserve Net Energy Metering (NEM) 2.0
- / Works with existing SolarEdge inverters

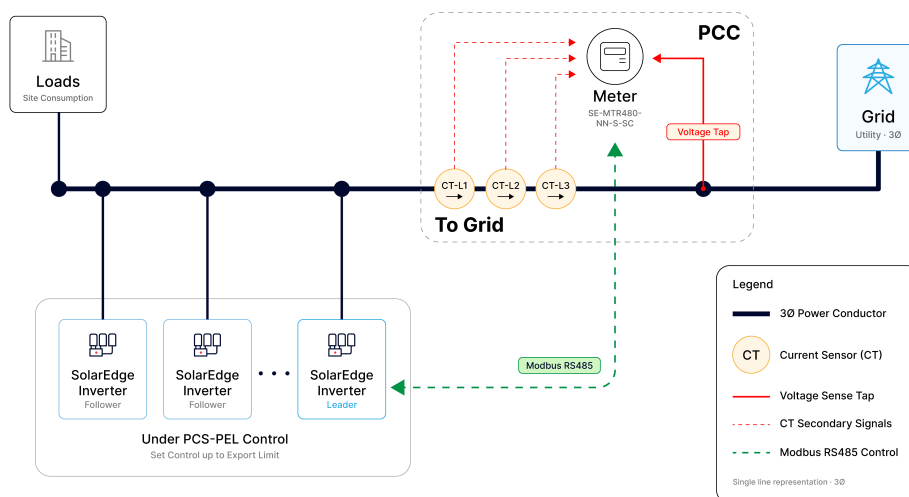
How the SolarEdge UL 3141 PCS Works

- / Meter at the Point of Common Coupling (PCC): A compatible import/export meter and CTs measure net power flow to the grid at the point of common coupling
- / Respond to load: Inverters adjust production in real time to hold the site at or below the export limit
- / Stay compliant: Total or Per-Phase control, automatic, with no manual reclosing or truck rolls
- / Verified setup: Configured and confirmed via the SolarEdge GO app

Configurations for Your Goals

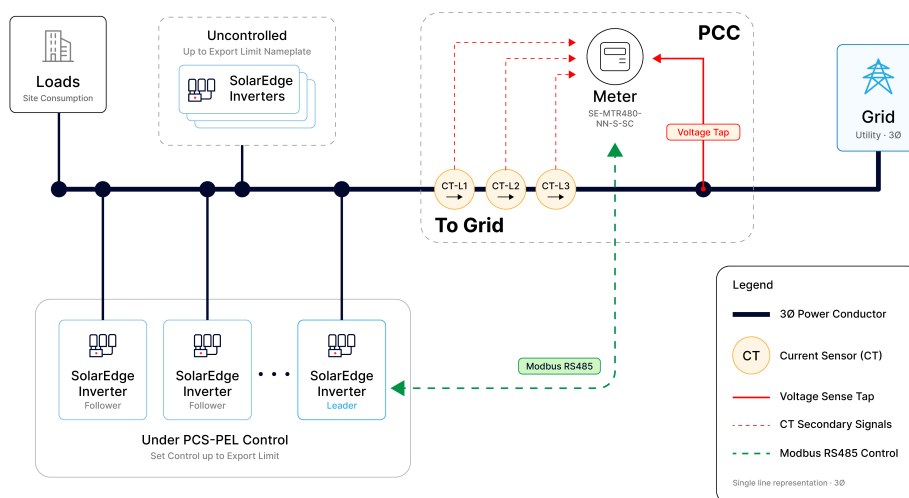
Build New Sites with Flexibility

- / Configuration A: A single branch of inverters under export control



Configuration A — New site, single branch of inverters

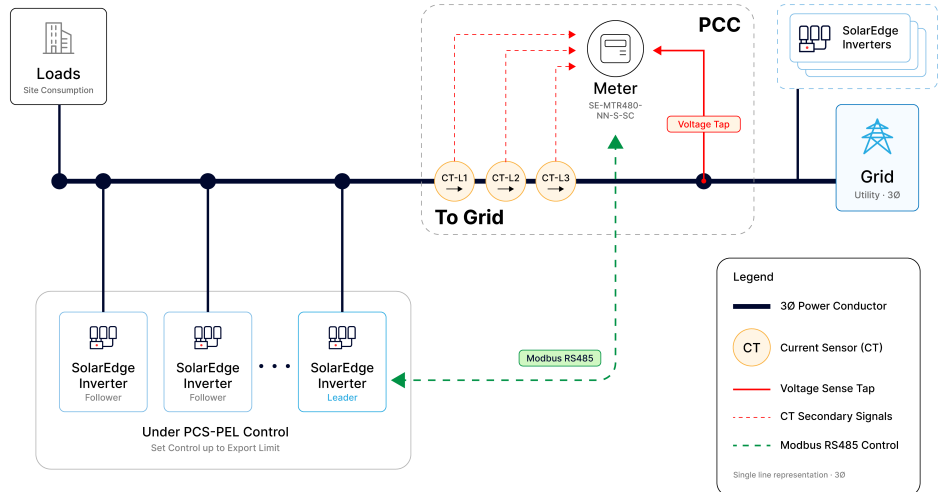
- / Configuration B (larger sites): Multiple branches — one controlled, one uncontrolled branch



Configuration B — New site, multiple branches

Expand to Existing Sites

- / Configuration C: New controlled PV added to an existing site. Existing, uncontrolled PV runs as-is while preserving the original interconnection agreement (including NEM 2.0)

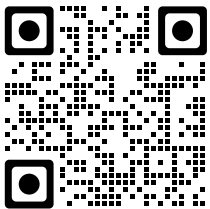


Configuration C — New controlled PV on an existing site

Required Equipment

Listed SolarEdge devices

- / Grid-supported inverter — [SolarEdge Synergy](#) or [Three-Phase](#) (min. 1, qualifying firmware)
- / Energy meter — [SolarEdge SE-MTR480-NN-S-SC](#), configured as Import/Export type
- / Current transformers — [Socomec ACTL-1250-600](#), split-core, UL 2808 listed



Talk to your SolarEdge account team to see how the SolarEdge UL 3141 PCS can optimize your next C&I project.

Diagrams are draft single-line figures from the UL 3141 application note, provided for illustration.