

# SolarEdge Commercial Product Guide



## Three Phase Inverters

Maximizes energy production and safety for small-medium size commercial PV projects

- 10kW-40kW models, with up to 175% DC oversizing
- Fixed voltage inverters for superior efficiency and longer strings
- Integrated arc fault protection and rapid shutdown



## Three Phase Inverters with Synergy Technology

Ideal for commercial and industrial rooftops, community solar, carports, and more

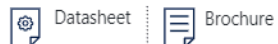
- 50kW-120kW models, with up to 175% DC oversizing
- Combines large capacity with ease of installation
- Reduces time onsite with pre-commissioning before grid connection



## SolarEdge TerraMax™ 330kW Inverter & H1300 Power Optimizer

Specifically designed for ground mount solar projects

- Unique single DC input architecture with virtual central topology and module-level MPPT for lower BoS costs and more energy
- Reduced O&M costs with unmatched system visibility due to continuous and granular monitoring
- Up to 50% reduction in Balance of System (BoS) costs with longer and fewer strings compared to traditional string systems
- More energy for longer periods with up to 200% DC oversizing



## S-Series Power Optimizers

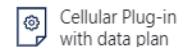
Maximizes PV module production and lowers DC BoS costs while providing module-level preemptive safety and visibility

- S-Series models include: S1200, S1201
- Advanced safety features for maximum protection of people and property
- Includes SolarEdge Sense Connect technology which avoids thermal issues via early detection of improper connector issues or malfunctions
- Compatible with all module types including high power and bi-facial
- Module-level optimization with 2:1 PV module to Power Optimizer ratio



## Cellular Communications

Wireless connection to the SolarEdge monitoring server via cellular network



## Energy Meter & Current Transformers

Supports high accuracy production/consumption monitoring, and export limitation



## Environmental Sensors

Measures environmental conditions such as irradiance, temperature and wind, which can be used to calculate site performance ratio



## Surge Protection Devices

Protects the AC/DC power lines and RS485 communication buses of SolarEdge Three Phase Inverters from electrical surges, such as lightning



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## SolarEdge ONE for C&I (coming soon)

Monitor and control all PV, EV charging and building loads in one comprehensive platform, maximizing energy efficiency & savings

- Overview of the entire fleet with robust site analysis and real-time insights
- Maximize uptime and minimize trucks rolls with remote troubleshooting
- 3D Digital Twin to help refine energy efficiency & performance through AI simulations
- Automated alerts ensure proactive maintenance and fast resolution



SolarEdge ONE Controller device



Weatherproof enclosure

## SolarEdge ONE Controller (coming soon)

The onsite hardware component that integrates all energy assets across the portfolio

- Links to SolarEdge ONE for C&I for optimal energy control
- Integrates onsite devices, such as inverters, meters, sensors, EV chargers and building loads
- Gathers data and conducts in-depth analysis for professional operations and maintenance (O&M) purposes
- Integrated with digital weather sensors and energy meter, and housed in an outdoor, weatherproof enclosure



## SolarEdge Designer

Plan and design C&I PV projects for maximizing and optimizing energy production

- AI-assisted roof detection, auto-stringing and 3D roof modeling
- AutoCAD import/export support
- Smart DC & AC cabling calculation provides accurate yield to costs



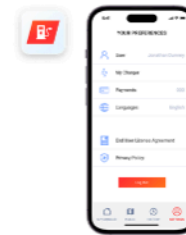
Designer Overview



Commercial System Design



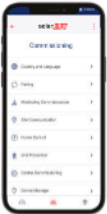
Designer webpage



## EV Management and Driver App (powered by Wevo, coming soon)

Designed to ensure optimization across EV charging stations (supports SolarEdge and all third-party EV chargers)

- EV Charger Monitoring & Control: Real-time visibility of charging sessions, availability, usage statistics, rates and permissions
- Solar Powered Charging: Ensure optimal efficiency by accessing excess solar for charging during peak pricing
- Load Balancing Management: Regulate charging based on grid conditions to help ensure peak demand reduction and stability
- EV Charging Payment Processing: Facilitate billing, invoicing, and subscription management
- Driver App: Features a charging stations map, charging histories, usage stats, rates, billing information and more



## Installation and Commissioning Tools

**SetApp:** Quick PV system commissioning via a mobile app

- Step-by-step visual tutorials for installation verification, commissioning, remote configuration and firmware upgrade
- Wireless connectivity among all system devices, and device auto discovery



**Mapper:** Quick creation of new PV sites via a mobile app

- Scanning and assigning Power Optimizer and inverter bar codes to the right location in the system physical layout
- Automatic transfer of system layout from SolarEdge Designer
- Parallel site mapping: scan different sections of the site simultaneously using multiple devices



SetApp webpage



SetApp Learning Lab playlist



Mapper webpage



How to map a site



## Load Management and Optimization (powered by HARK, coming soon)

Optimizes building load management for efficiency and maximum savings

- Monitor all sites, pinpoint and resolve issues fast & remote
- Control all assets to ensure efficient energy usage
- Reduce energy usage, time on site and costly truck rolls



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