



COMPACT RESIDENTIAL SOLUTIONS FOR SMALL PV SYSTEMS

Powering home installations of 4 to 8 solar modules using SolarEdge's cost-effective, DC-optimised inverter solution

solaredge

Affordable, Green Electricity for Small Rooftops

SolarEdge, a global leader in the solar inverter industry, has developed a residential DC-optimised inverter solution ideally suited for homes with limited roof space, social housing projects, or for meeting minimum sustainability requirements. The Compact Residential Solution is easily installed on either existing rooftops or new builds, and delivers clean energy, which is affordable, efficient, and safe.

A Compact Solution Packed with Benefits



GENERATE MORE POWER AND MORE REVENUE

With SolarEdge, maximum power is produced from each solar module individually. Underperforming modules do not affect the performance of neighbouring modules, enabling more energy to be harvested from the PV system.

PROTECT YOUR INVESTMENT WITH LONG-TERM WARRANTIES

SolarEdge products are field proven and built for lasting performance. Enjoy peace of mind with long-term warranties of 25 years for power optimisers, 12 years for inverters, and free monitoring for the system lifetime. Affordable extended inverter warranties of up to 25 years are also available.

ENJOY PEACE OF MIND WITH EXCEPTIONAL SAFETY

As with all SolarEdge systems, the Compact Residential Solution includes the SafeDC™ feature for increased PV safety.

SafeDC is designed to reduce the PV system's high voltage to a touch safe level, whenever the grid or inverter is shut down. This reduces the risks to maintenance personnel, firefighters, homeowners, and property.



MONITOR AND CONTROL SYSTEM PERFORMANCE IN REAL-TIME

Ensure your PV systems are always performing at their peak ability by connecting them to SolarEdge's free cloud-based monitoring platform, providing module-level visibility of system performance at all times. Rapid, remote troubleshooting is possible with pinpointed and automatic alerts on system issues. Lower O&M costs are achieved through minimal and shortened onsite visits, and higher system uptime.

Monitor individual or multiple PV systems:

- > User-friendly interface for module-level performance monitoring
- > Comprehensive reporting tools, including one report for multiple systems
- > Comparison of PV site production across the fleet
- > Multiple filtering options for organising key performance data



Includes Multiple Communication Options

For maximum cost-effectiveness, choose either the **Basic** or **Extended** communication options depending on your specific project requirements. These options range from no monitoring connection at all, to the full selection of monitoring connectivity, including wireless.

	ENERGY METER CONNECTION	CONNECTIVITY OPTIONS TO SOLAREEDGE MONITORING				HOME ENERGY MANAGEMENT SUPPORT*
		ETHERNET	WI-FI*	ZIGBEE WIRELESS*	CELLULAR GSM*	
BASIC	●	●	●	●	●	
EXTENDED	●	●	●	●	●	

* Required components must be purchased separately



The Ideal Solution for Small PV Systems



SPECIFICALLY DESIGNED FOR ROOFTOP SYSTEMS OF 4 TO 8 MODULES

The SolarEdge solution includes a single power optimiser with four Maximum Power Point Trackers (MPPT) for harvesting more energy from each module. Each MPPT connects to one or two 60-cell PV modules installed on the roof and works exclusively with the new SolarEdge IP65-rated single phase inverter. The wall-mounted inverter is extremely compact, very lightweight, easy to install, and is available in 1kW, 1.5kW, and 2kW sizes.



Power Optimiser

Connects to 4-8 modules on the roof, creating intelligent modules

- > More energy from each module due to module-level Maximum Power Point Tracking
- > Flexible design by installing modules on multiple azimuths and tilts for optimal roof utilisation
- > Exceptional safety with SafeDC—designed to shut down system voltage for each module



Solar Inverter

A simple and reliable inverter

- > Responsible for DC to AC conversion only, as all other functions are handled separately for each module by the power optimiser
- > Extremely compact, very lightweight, and easy to install
- > Wall mounted, suitable for indoor or outdoor installation



Monitoring Platform

Real-time monitoring at module, string, and system levels

- > Full visibility of PV system performance
- > Pinpointed and automatic alerts on system issues
- > Accurate and remote troubleshooting for higher system uptime
- > Effective fleet management



A GLOBAL LEADER IN THE SOLAR INVERTER INDUSTRY

Contact your local SolarEdge sales team for more information on SolarEdge's Compact Residential Solution for small PV systems.

