Commercial Offering for Installers & EPCs
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About SolarEdge

About us
In 2006, SolarEdge revolutionized the solar industry by inventing a better way to collect and manage energy in PV systems. Today, we are a global leader in smart energy technology. By deploying world-class engineering capabilities and with a relentless focus on innovation, we create smart energy products and solutions that power our lives and drive future progress.

Vision
We believe that continuous improvement in the ways we produce and manage the energy we consume will lead to a better future for us all.

Bankability
- Approved by major banks and financial institutions worldwide
- SolarEdge (SEDG) is traded on NASDAQ
- Our financial strength and stability, combined with our cutting-edge technology, has propelled us to become one of the largest inverter manufacturers in the world.

Shipping since 2010
- 3.5 million inverters and over 80 million Power Optimizers shipped worldwide
- SolarEdge’s Monitoring Platform continuously tracks over 2.45 million installations across the globe

Global reach
- Systems installed in over 130 countries across five continents
- Sales via leading integrators and distributors
- Follow the sun call centers
- Local teams of sales, service, marketing, and training experts
- Global manufacturing capabilities with tier 1 electronic manufacturing service companies

Corporate social responsibility
As a global leader in smart energy technologies, SolarEdge is committed to a sustainable world and is in full compliance with international standards on quality and control, ethical conduct, and environmental protection.

Award-winning technology

Bankability

Shipping since 2010

Global reach

Corporate social responsibility

Patents
SolarEdge has a vast portfolio of intellectual property, with hundreds of awarded patents and patent applications

Product reliability
- 25-year Power Optimizer warranty and 12-year inverter warranty, extendable to 20 years
- SolarEdge products and components undergo rigorous testing, and have been evaluated in accelerated life chambers
- Reliability strategy includes proprietary application specific ICs (ASIC)
The Importance of Inverter Selection

Commercial rooftop installation cost breakdown*

Inverters account for less than 10% of the system cost but,
- Manage 100% of system production
- Influence up to 20% of system cost
- Control O&M expenses through PV asset management solutions

Therefore, the inverter selection is critical for the long term financial performance of a PV system as it can maximize energy production and reduce lifetime costs.

* Based on SolarEdge market analysis, assuming total cost of ~€1/Wp

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SolarEdge Commercial Offering

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Inverter | EPC margin | Electrical BOS | PV modules | Structural BOS | Other
---|---|---|---|---|---
7% | 10% | 14% | 60% | 1% | 7%
Maximum Energy Yield in Commercial Installations

Unavoidable in commercial installations, module-level mismatch occurs when modules in a string have different Maximum Power Points (MPPs). Arising from a variety of sources, the mismatch decreases the energy yield of the entire string.

Examples of power mismatch in commercial installations:

Manufacturing tolerance mismatch
The module manufacturer-warranted output power range may vary greatly. A standard deviation of 3% is sufficient to result in ~2% energy loss.

Soiling, shading & leaves
Module soiling, from dirt, bird droppings or snow, contributes to mismatch between modules and strings.

While there may be no obstructions during site design, throughout a system’s lifetime, a tree may grow or a structure may be erected that creates uneven shading.

Uneven module aging
Module performance can degrade up to 20% over 20 years, however, each module ages at a different rate, which causes aging mismatch.

The SolarEdge DC optimized inverter solution mitigates power losses caused by module mismatch for maximum power generation from each module. With SolarEdge, strong modules are not affected by the weaker ones.

Traditional string inverter
- MPPT per string - all modules operate at same current, regardless of their individual MPP
- Weak modules reduce the performance of all modules in the string or are bypassed
- Power losses due to module mismatch

SolarEdge DC optimized inverter solution
- Module-level MPPT - current & voltage adjusted at the module level
- Maximum power produced and tracked from each module individually
- 2%-10% more energy from the PV system

Guaranteed power output from module manufacturers 0–+3%

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Design Flexibility

More power
With module-level power optimization and maximum design flexibility, more modules can be installed on the roof enabling a shorter project payback period. SolarEdge Power Optimizers enable installation of:

- Modules in partially shaded areas
- Strings of uneven lengths
- Strings in multiple orientations and different roof facets

Reduced BoS cost
Up to 15kW per string allows for more modules per string. This leads to fewer strings per inverter and therefore less wiring, combiner boxes, and fuses.
As equipment prices drop and system sizes trend upward, PV projects are increasingly seen as secure long-term investment opportunities. Like any financial asset, PV systems must be monitored and managed to realize their full potential.

Traditional inverters offer limited information, such as string-level or system-level monitoring that can indicate underperformance of the array, but little else. It then becomes costly and time consuming to send skilled technicians to perform on site troubleshooting.

The SolarEdge DC optimized inverter solution offers advanced PV monitoring and asset management. Power Optimizers constantly track MPP and report high-resolution data on module performance.

The SolarEdge Monitoring Platform transforms O&M from a manual, resource-intensive process to an automated, at-a-glance service, ensuring that every plant is performing to the best of its ability at all times.
PV Asset Management with Module-Level Monitoring (cont.)

SolarEdge’s Monitoring Platform features:

1. Real-time remote monitoring at the module, string, and system levels

2. Comprehensive analytics tracking and reports of energy yield, system uptime, performance ratio, and financial performance

3. Pinpointed and automatic alerts for immediate fault detection, accurate maintenance, and rapid response. The alerts show the specific fault location, fault description, and fault status. Energy thresholds alerts can be set to detect underperforming modules. Custom settings available for time of day and offset from sunrise and sunset.

4. The time-of-use feature allows system owners to define peak and off-peak rates in order to track expected PV revenue. This may be used as an indication of the system’s ROI.
PV Asset Management with Module-Level Monitoring (cont.)

5. Accurate and remote troubleshooting for fast and efficient resolution with minimal and shortened onsite visits. Examples of identifying underperforming modules:

Soiling

It is easy to identify the bypass diode failure with the module-level voltage graphs. The faulty module outputs at only 2/3 of the voltage (5/6 in this case of Power Optimizer connected to two modules).

Potential induced degradation (PID)

Looking at the modules within one string, it is possible to see the power degradation increasing towards the negative pole.

No need to send technicians to the roof – module voltage is measured remotely.

6. The consumption monitoring feature shows data about electricity consumption, PV production, and self-consumption. This feature is integrated into all SolarEdge inverters and requires only a connection of a SolarEdge energy meter.
Advanced Safety

With millions of photovoltaic (PV) systems installed worldwide, this technology is designed to be relatively safe and reliable. However, as traditional PV installations can reach voltages as high as 1,500VDC, precautions should be taken to ensure the safety of people and assets. With traditional inverters, shutting down the inverter or the grid connection will terminate current flow, but DC voltage in the string cables will stay high for as long as the sun is shining. In addition, electrical arcs, which can result in a fire, create a threat to people and assets in the vicinity of the PV system.

The SolarEdge system provides a superior safety solution for both electrocution and fire risks.

**SafeDC™**
SafeDC™ is a built-in module-level safety feature which minimizes electrocution risk. To maintain string voltage below risk levels, Power Optimizers are designed to automatically switch into safety mode, in which the output voltage of each module will be reduced to 1V in either of these cases:
- During installation, when string is disconnected from the inverter, or the inverter is turned off
- During maintenance or emergency, when the inverter or AC connection is shut down

The SolarEdge SafeDC™ feature is certified in Europe as a DC disconnect according to IEC/EN 60947-1 and IEC/EN 60947-3 and to the safety standards VDE AR 2100-712 and OVE R-11-1.

**Rapid shutdown capabilities**
SolarEdge’s optional rapid shutdown feature supports fast DC discharge to safe voltage levels within just 30 seconds, for even greater protection.

**Arc fault detection and interruption**
SolarEdge inverters have a built-in protection designed to mitigate the effects of some arcing faults that may pose a risk of fire, in compliance with the UL1699B arc detection standard. Currently there is no comparable arc detection standard in the EU and therefore non-US SolarEdge inverters can detect and interrupt arcs as defined by the UL1699B standard. In addition to manual restart, a mechanism for auto-reconnect can be enabled during system commissioning.

**Built-in temperature monitoring**
Thermal sensors integrated into the system detect faulty wiring that can potentially cause electric arcs.

**Favored by global solar insurance companies**
SolarEdge’s multi-layered, holistic safety approach make it a favored PV solution of worldwide solar insurance companies. It also meets leading property insurance company FM Global’s DS 1-15 engineering requirements.

Note: Safety functionalities described above may vary between different inverter models and firmware versions, and are applicable when inverter is turned on.
Future Compatibility & Warranty

As part of PV asset management planning, it is important to account for future costs that can impact the return on investment of a PV system. The SolarEdge DC optimized inverter solution effectively minimizes these potential costs.

Forward compatibility eliminates expensive stock of spare module inventory.
- Replacement: SolarEdge allows modules of different power classes and brands in the same string.
- Expansion: New Power Optimizers can be utilized in the same string with older models.

SolarEdge offers 25-year Power Optimizer warranty, 12-year inverter warranty, and free monitoring for 25 years. SolarEdge offers extended warranties at attractive prices.

SolarEdge provides low-cost inverter replacement out of warranty
- ~40% less than traditional inverters

Products are certified for ammonia resistance - suitable for agricultural areas
The SolarEdge DC optimized inverter solution offers a better LCOE for a system’s lifetime by maximizing yield and reducing costs. The SolarEdge DC optimized inverter solution maximizes power generation at the individual module level, which leads to a higher lifetime revenue from PV systems. While the initial cost of the SolarEdge solution is generally slightly higher than the equivalent traditional inverter system, the total installation cost as well as the lifetime maintenance cost is lower. This makes the SolarEdge solution more economically attractive.

**Lifetime PV system cost and revenue**

- **System lifetime value**
  - **Lifetime revenue**
  - **BoS cost**
  - **Inverter replacement cost**
  - **Lifetime O&M cost**

1.3MW SolarEdge system, Arizona, USA
Developed by AES Distributed Energy, Inc. (formerly Main Street Power)
Installed by Rosendin Electric
The SolarEdge solution consists of inverters, Power Optimizers, and a Monitoring Platform. The technology provides superior power harvesting and module management by connecting Power Optimizers at the module level. The ability to connect two modules to one optimizer, combined with DC to AC conversion and grid interaction being centralized at a simplified PV inverter maintains a competitive cost structure.

### Commercial System Diagram

**2-to-1 Power Optimizer configuration**
- Module-level MPPT - no mismatch power losses
- Strings of uneven lengths, modules on multiple azimuths & tilts
- Compatible with SolarEdge inverters SE15K & larger
- SafeDC™ - automatic module-level safety shutdown

**15kVA-120kVA inverters**
- Specifically designed to work with Power Optimizers
- Easy installation, including 2-person install for large capacity models
- Innovative pre-commissioning tool for validating each stage of the install process (on selected models)
- Step-by-step inverter activation and commissioning with SetApp
- Built-in communication hardware
- Advanced safety features, including built-in arc fault protection and optional rapid shutdown
- Embedded export limitation
- Built-in (optional) AC, DC, and RS485 surge protection (on selected models)

**Monitoring Platform**
- Full visibility of system performance
- Remote troubleshooting
- Access via browser or any Android, iOS smart phone or tablet
- Communication with the Power Optimizers over existing DC power lines (PLC)

**Commercial gateway**
- Connection of multiple environmental sensors to analyze system performance

**Performance monitoring**
- Calculate site performance ratio and measure environmental conditions, using environmental sensors or a satellite-based service.

**Grid interaction**
- Supports power control, e.g. zero export limitation, local and remote active/reactive power control, inverter AC relay control for secondary grid protection; low voltage and frequency ride through.
1.96MW Rooftop System Comparison

Comparison of a 1.96MWp SolarEdge system to an identical system with a traditional string inverter

The system comprises 1,000 x 480Wp modules. One system was designed with 14 x SE100K SolarEdge Synergy technology inverters and 2,040 x P1100 Power Optimizers in a 2:1 configuration. The second system was designed with 28 x 75kW traditional string inverters.

Energy comparison

PVsyst was used to simulate the yield of both systems in year 1 and year 20. The SolarEdge advantage grows with time due to uneven panel aging which increases mismatch between panels.

<table>
<thead>
<tr>
<th></th>
<th>Traditional String Inverter</th>
<th>SolarEdge System</th>
<th>SolarEdge Advantage</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVsyst year 1 yield (MWh)</td>
<td>3,237</td>
<td>3,318</td>
<td>2.5%</td>
</tr>
<tr>
<td>PVsyst year 20 yield (MWh)</td>
<td>2,789</td>
<td>3,018</td>
<td>8.2%</td>
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</table>

BoS comparison

<table>
<thead>
<tr>
<th></th>
<th>Traditional String Inverter</th>
<th>SolarEdge DC Optimized Inverter</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC power (MWp)</td>
<td>1.96</td>
<td>1.96</td>
</tr>
<tr>
<td>AC power (MVA)</td>
<td>1.5</td>
<td>1.5</td>
</tr>
<tr>
<td>Modules (480Wp)</td>
<td>4,080</td>
<td>4,080</td>
</tr>
<tr>
<td>Inverters</td>
<td>28</td>
<td>14</td>
</tr>
<tr>
<td>No. of strings</td>
<td>194</td>
<td>126</td>
</tr>
<tr>
<td>Modules per string</td>
<td>21</td>
<td>32/33</td>
</tr>
<tr>
<td>DC cable CU 1 x 6mm² (m)</td>
<td>11,782</td>
<td>24,030</td>
</tr>
<tr>
<td>DC AL Cable 1 x 95mm²</td>
<td>6,768</td>
<td></td>
</tr>
<tr>
<td>DC Combiner Box</td>
<td>28</td>
<td></td>
</tr>
<tr>
<td>AC cable N2XY 4 x 70mm²</td>
<td>140</td>
<td></td>
</tr>
<tr>
<td>AC cable N2XY 4 x 90mm²</td>
<td>-</td>
<td>70</td>
</tr>
<tr>
<td>AC Combiner Box</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>MC4 connectors (1 pair)</td>
<td>388</td>
<td>252</td>
</tr>
<tr>
<td>Datalogger</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>BoS cost</td>
<td>100%</td>
<td>42%</td>
</tr>
<tr>
<td>BoS cost saving*</td>
<td>2.6 c/w</td>
<td></td>
</tr>
</tbody>
</table>

* Estimated saving on BoS components based on typical market prices in €

Cabling comparison

- **Traditional inverter cabling diagram | Total of 194 strings**
- **SolarEdge inverter cabling diagram | Total of 126 strings**
- **String wiring**
- **Homerun DC cabling**
- **Main homerun DC cabling**
1.96MWP Rooftop System —
Electrical Diagram Comparison

Traditional string inverter system

SolarEdge DC optimized inverter solution
2.44MW Ground Mount System Comparison

Comparison of a 2.44MWP SolarEdge system to an identical system with a traditional string inverter

The system comprises 5,544 x 440Wp modules. One system was designed with 17 x SE120K SolarEdge Synergy technology inverters and 2,772 x P950 Power Optimizers in a 2:1 configuration. The second system was designed with 14 x 150kW traditional string inverters.

Energy comparison and potential risk of MPPT range exit

PVsyst was used to simulate the yield of both systems in year 1 and year 20. The SolarEdge advantage grows over time due to its ability to mitigate the module mismatch caused by uneven PV module aging. Otherwise, there is the risk that eventually, the module voltage levels will decrease and exit the required voltage range needed for the inverter to perform MPP tracking.

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<tr>
<td>PVsyst year 1 yield (MWh)</td>
<td>3,187</td>
<td>3,249</td>
<td>1.9%</td>
</tr>
<tr>
<td>PVsyst year 20 yield (MWh)</td>
<td>2,834</td>
<td>3,005</td>
<td>6%</td>
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</table>

BoS comparison

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<th>Traditional String Inverter</th>
<th>SolarEdge DC Optimized Inverter</th>
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<tbody>
<tr>
<td>DC power (MWp)</td>
<td>2.44</td>
<td>2.44</td>
</tr>
<tr>
<td>AC power (MVAr)</td>
<td>2.0</td>
<td>2.0</td>
</tr>
<tr>
<td>Modules (480Wp)</td>
<td>5,544</td>
<td>5,544</td>
</tr>
<tr>
<td>Inverters</td>
<td>14</td>
<td>17</td>
</tr>
<tr>
<td>No. of Strings</td>
<td>225</td>
<td>153</td>
</tr>
<tr>
<td>Modules per string</td>
<td>25</td>
<td>36</td>
</tr>
<tr>
<td>DC cable CU 1 x 6mm² (m)</td>
<td>13,787</td>
<td>6,424</td>
</tr>
<tr>
<td>DC AL Cable 1 x 120mm²</td>
<td>140</td>
<td>-</td>
</tr>
<tr>
<td>DC Combiner Box</td>
<td>14</td>
<td>-</td>
</tr>
<tr>
<td>AC cable N2XY 2 x (3 x 120mm²) + 120mm²</td>
<td>529</td>
<td>733</td>
</tr>
<tr>
<td>AC cable N2XY 4 x 120mm²</td>
<td>1,156</td>
<td>1,375</td>
</tr>
<tr>
<td>AC Combiner Box</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>MC4 connectors (1 pair)</td>
<td>225</td>
<td>153</td>
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<tr>
<td>Datalogger</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>BoS cost</td>
<td>100%</td>
<td>85%</td>
</tr>
<tr>
<td>BoS cost saving*</td>
<td>0.57 c/w</td>
<td></td>
</tr>
</tbody>
</table>

* Estimated saving on BoS components based on typical market prices in €

Cabling comparison

Traditional inverter cabling diagram
Total of 225 strings

SolarEdge cabling diagram
Total of 153 strings
2.44MW Ground Mount System — Electrical Diagram Comparison

Traditional string inverter system

SolarEdge DC optimized inverter solution
Commercial Product Offering

Three Phase Inverters
- 12.5kW-40kW models
- Fixed voltage inverters for superior efficiency and longer strings
- Integrated arc fault protection and optional rapid shutdown

Three Phase Inverters with Synergy Technology
- 66.6kW-120kW models
- Combines large capacity with ease of installation
- Reduces time onsite with automatic system validation before grid connection

Power Optimizers
- P605-P1100 and S1200 models for module outputs up to 600W
- Module-level optimization with 1:1 or 2:1 PV module to Power Optimizer ratio
- Advanced safety features for maximum protection of people and property
- Supports all module types including high power and bi-facial

Monitoring Platform
- Free, real-time system visibility at the module level, anytime, anywhere
- Pinpointed alerts for faster maintenance and higher system uptime
- Dedicated Monitoring installer app and mySolarEdge app for system owners

SolarEdge Designer
Online tool to plan, build and validate your SolarEdge systems from inception to installation

Installation and Commissioning Tools
- SetApp: Easy inverter commissioning direct from the installer’s smartphone
- Mapper: Quick creation of virtual site maps in the Monitoring Platform via a mobile app

Communications Devices
Multiple options for wireless connection of inverters to the SolarEdge monitoring server, such as Wi-Fi, cellular and ZigBee

Energy Meter & Current Transformers
Supports high accuracy production/consumption monitoring, and export limitation

Performance Monitoring
Calculate site performance ratio and measure environmental conditions

Surge Protection Devices
Protect the AC/DC power lines and RS485 communication buses of SolarEdge Three Phase Inverters from electrical surges, such as lightning.
<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
</tr>
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<tbody>
<tr>
<td>SE15K-RW0T0BN4</td>
<td>Three Phase Inverter, 15.0kW</td>
</tr>
<tr>
<td>SE16K-RW0T0BN4</td>
<td>Three Phase Inverter, 16.0kW</td>
</tr>
<tr>
<td>SE17K-RW0T0BN4</td>
<td>Three Phase Inverter, 17.0kW</td>
</tr>
<tr>
<td>SE25K-RW00IBNN4</td>
<td>Three Phase Inverter, 25kW</td>
</tr>
<tr>
<td>SE33K-RW00IBNN4</td>
<td>Three Phase Inverter, 33.3kW</td>
</tr>
<tr>
<td>SE40K-RW01IBNN4</td>
<td>Three Phase Inverter, 40kW for 277V/480V Grid</td>
</tr>
</tbody>
</table>

Three Phase Inverters: with SetApp inverter configuration, DC Safety Switch, DC Surge Protection (Type II) and Fuses. 12-year warranty included.

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<td>SE25K-RW01IBNN4</td>
<td>Three Phase Inverter, 25kW</td>
</tr>
<tr>
<td>SE33K-RW01IBNN4</td>
<td>Three Phase Inverter, 33.3kW</td>
</tr>
<tr>
<td>SE40K-RW01IBNN4</td>
<td>Three Phase Inverter, 40kW for 277V/480V Grid</td>
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</table>

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<th>Part Number</th>
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<tr>
<td>SE66.6K-RW00IBNC4</td>
<td>Synergy Manager, 66.6kW, MC4 connectors, DC Safety Switch and SPD, Fuses</td>
</tr>
<tr>
<td>SE90K-RW00IBNC4</td>
<td>Synergy Manager, 90kW, MC4 connectors, DC Safety Switch and SPD, Fuses</td>
</tr>
<tr>
<td>SE100K-RW00IBNC4</td>
<td>Synergy Manager, 100kW, MC4 connectors, DC Safety Switch and SPD, Fuses</td>
</tr>
<tr>
<td>SE120K-RW00IBNC4</td>
<td>Synergy Manager, 120kW for 277V/480V Grid, MC4 connectors, DC Safety Switch and SPD, Fuses</td>
</tr>
</tbody>
</table>

Three Phase Inverters with Synergy Technology - Synergy Manager, with SetApp inverter configuration, DC Surge Protection (Type II), 12-year warranty included.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SESUK-RW01INNN4</td>
<td>Synergy Unit</td>
</tr>
<tr>
<td>SESUK-RW01INNN4</td>
<td>Synergy Unit, with Automatic Rapid Shutdown</td>
</tr>
</tbody>
</table>

Three Phase Inverters with Synergy Technology - Synergy Unit: 12-year warranty included.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P601-4RM4MBN</td>
<td>Designed for 1 x high current modules, up to 14A, with max Vin (@ min temp) 65V, output cable length 1.4m</td>
</tr>
<tr>
<td>P605-4RM4MBN</td>
<td>Designed for 1 x high power/bi-facial, 65V, output cable length 1.1m</td>
</tr>
<tr>
<td>P801-4RM4MBM</td>
<td>Designed for 72 cells, 2 in series (portrait), with max Vin (@ min temp) 125V, output cable length 1.2m</td>
</tr>
<tr>
<td>P801-4RM4MBY</td>
<td>Designed for 72 cells, 2 in series (landscape), with max Vin (@ min temp) 125V, output cable length 2.2m</td>
</tr>
</tbody>
</table>

Power Optimizers: 25-year warranty included.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P850-4RM4MBM</td>
<td>Designed for high power/bi-facial, 2 in series, max input voltage (@ min temp) 125V, output cable length 1.2m</td>
</tr>
<tr>
<td>P850-4RM4MBY</td>
<td>Designed for high power/bi-facial, 2 in series, max input voltage (@ min temp) 125V, output cable length 2.2m, input 0.9m</td>
</tr>
</tbody>
</table>

Power Optimizer Accessories

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE-20MF-MC4-SEAL</td>
<td>20 Pairs of MC4 Seals for Power Optimizer Connectors</td>
</tr>
</tbody>
</table>
### Commercial Offering Ordering

**Information** Contact your local SolarEdge distributor for more details

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE1000-CGG-G-S1</td>
<td>Commercial Gateway</td>
</tr>
<tr>
<td>SE1000-CGG-F-S1</td>
<td>Firefighter Gateway</td>
</tr>
<tr>
<td>SE-WFGW-B-S1-RW</td>
<td>Wireless Gateway for Inverters with SetApp</td>
</tr>
<tr>
<td>SE-WFRRT-B-S1-RW</td>
<td>Wireless Repeater for Inverters with SetApp</td>
</tr>
<tr>
<td>SE-ANT-ZBWIFI-KIT</td>
<td>Antenna Kit for Wi-Fi Communication (5 pcs) for Inverters with SetApp Configuration</td>
</tr>
</tbody>
</table>

### Communication Products

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### Surge Protection Kits

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE-RS485-SPD3-B-K4</td>
<td>RS485 Surge Protection Kit for SE15K-SE40K and SE66.6K-120K</td>
</tr>
<tr>
<td>SE-DC-SPD-I</td>
<td>DC Surge Protection upgrade kit, SE2S-40K-<em>IBN</em>4</td>
</tr>
<tr>
<td>SE-AC-SPD-I</td>
<td>AC Surge Protection upgrade kit, SE2S-40K-<em>IBN</em>4</td>
</tr>
</tbody>
</table>

### Environmental Sensors

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE1000-SEN-TAMB-S2</td>
<td>Ambient Temperature Sensor 0-10V</td>
</tr>
<tr>
<td>SE1000-SEN-TMOD-S2</td>
<td>Module Temperature Sensor 4-20mA</td>
</tr>
<tr>
<td>SE1000-SEN-IRR-S1</td>
<td>Irradiance Sensor 0-1.4V</td>
</tr>
<tr>
<td>SE1000-SEN-WIND-S1</td>
<td>Wind Velocity Sensor 4-20mA</td>
</tr>
</tbody>
</table>

Warranty and service for these products is provided directly by Ingenieurbüro Mencke & Tegtmeyer GmbH.

For more details, go to: http://www.imt-solar.com/products.htm

### Metering Solutions, with 5-year warranty

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE-WND-3Y400-MB-K2</td>
<td>1ph/3ph 230/400V, Energy Meter with Modbus Connection, DIN-Rail for Thailand, MEA</td>
</tr>
<tr>
<td>SE-RGMTR-3Y-208V-A</td>
<td>3ph 4-Wire Delta, 208V Energy Meter, ANSI CLASS 05</td>
</tr>
<tr>
<td>SE-RGMTR-3Y-480V-A</td>
<td>3ph 4-Wire Delta, 480V Energy Meter, ANSI CLASS 05</td>
</tr>
<tr>
<td>SECT-SPL-100A-A</td>
<td>100A Split-Core Current Transformer, for 50/60Hz</td>
</tr>
<tr>
<td>SECT-SPL-250A-A</td>
<td>250A Split-Core Current Transformer, for 50/60Hz</td>
</tr>
<tr>
<td>SECT-SPL-1000A-A</td>
<td>1000A Split-Core Current Transformer, for 50/60Hz</td>
</tr>
<tr>
<td>SEACT1250-400NA-20</td>
<td>400A CT, for Split or Delta Grid 230V for 60Hz, Box of 20</td>
</tr>
<tr>
<td>SE-CTB-4X4-1200</td>
<td>Bus-Bar CT, 4.0” x 4.0”, 1200A, 1.5% acc.</td>
</tr>
<tr>
<td>SE-CTB-4X4-2000</td>
<td>Bus-Bar CT, 4.0” x 4.0”, 2000A, 1.5% acc.</td>
</tr>
<tr>
<td>SE1000-30IF01</td>
<td>50 meter adapter cable</td>
</tr>
</tbody>
</table>

### Professional Services

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE2000-PFSV-MSCD-48PC</td>
<td>Site power controller: dynamic control of site power, active power &amp; reactive power *</td>
</tr>
<tr>
<td>SE2000-PFSV-MSCD-DG</td>
<td>Alternative power source hybrid solution: controller that integrates an alternative power source with a PV production system *</td>
</tr>
<tr>
<td>WE-PFSV-MSCD-5</td>
<td>Warranty Extension, 5 years, Site Power Controller</td>
</tr>
<tr>
<td>SEFP-PFSV-10Y</td>
<td>Site data FTP: Web FTP site for monitoring data</td>
</tr>
</tbody>
</table>

### Professional Services

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<tr>
<th>Part Number</th>
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</thead>
<tbody>
<tr>
<td>SEPS-DEV-CMU-KIOSK</td>
<td>Customized monitoring user interface development. Will be quoted upon demand.</td>
</tr>
<tr>
<td>OSC-PFSV-HS</td>
<td>Professional Services on-site support &amp; integration, hourly service. Minimum 4 hours.</td>
</tr>
<tr>
<td>OSC-PFSV-FD</td>
<td>Professional Services on-site support &amp; integration, full day</td>
</tr>
<tr>
<td>RS-PFSV-005</td>
<td>Professional Services remote support. Annual service. Yearly payment.</td>
</tr>
</tbody>
</table>

### Inverter Warranty Extensions

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WE-3H-20</td>
<td>Purchased within 24 months of shipment date, up to 20 years</td>
</tr>
<tr>
<td>WE-3SH-20</td>
<td>20 years, Three Phase Inverter ≥ 15kW, &lt;25kW</td>
</tr>
</tbody>
</table>

For Three Phase Inverters ≥25kW with DC Safety Unit, purchased within 24 months from shipment date

### Professional Services on-site support & integration, full day

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WE-3SH-20DCD</td>
<td>20 years, Three Phase Inverter 25-40kW</td>
</tr>
</tbody>
</table>

For Three Phase Inverters including Synergy Technology, purchased within 24 months from shipment date

### Monitoring Tools

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE-SAT-PR-S1</td>
<td>Satellite-based Performance Ratio; one site, for one year</td>
</tr>
<tr>
<td>SE-SAT-PR-S2</td>
<td>Satellite-based Performance Ratio; one site, for one year plus one year historical data</td>
</tr>
</tbody>
</table>

For full details about the Monitoring Platform visit: http://www.solaredge.com/products/pv-monitoring#/

### SolarEdge Designer

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>SE2000-PFSV-MSCD-48PC</td>
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<td>SEFP-PFSV-10Y</td>
<td>Site data FTP: Web FTP site for monitoring data</td>
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</tbody>
</table>

For full details about the Designer tool visit: https://www.solaredge.com/products/installer-tools/designer#/

For full details about the Monitoring Platform visit: https://www.solaredge.com/products/pv-monitoring#/

For full details visit: https://www.solaredge.com/products/pv-monitoring/satellite-based-pr
Comprehensive Service Suite

SolarEdge supports you throughout your PV project lifecycle. We provide the tools and services to help you grow your business with us.

Project design and pre-sale

Our dedicated tools and engineering services help you close deals.

Tailor-made design optimization by SolarEdge pre-sale engineers

Training and tools help your sales team convey the added value of the SolarEdge solution

LCOE and ROI analysis

PV simulation and comparative system analysis

Project design & pre-sale

Project execution

Operation & maintenance
Comprehensive Service Suite (Cont.)

Project execution
Our advanced tools and features will assist you to easily and smoothly execute projects.

- Project design validation prior to installation
- Hands-on installation training by local field engineers
- Installation validation checklist
- DC safety protecting installers from high DC voltage
- Easy and flexible string layout
- Remote and on-site installation support by local service teams
- Easy inverter activation and commissioning using the SetApp mobile application
- Remote operations to commission and activate the installation
- Automatic commissioning report

Operation & maintenance
Our advanced Monitoring Platform allows you to guarantee system availability and high performance ratio for system lifetime.

- Performance monitoring
  - Fleet management
  - Pre-scheduled performance and status reports of multiple sites
  - Pinpointed automatic alerts
  - Inter-site and multi-site comparisons
  - Satellite-based performance ratio
- Fault detection
  - Inverter and module-level fault identification
  - Remote troubleshooting tools
- Executive reporting
  - Site specific automated production reports
- Service
  - Rapid RMA process
  - Follow the sun call center
SolarEdge is a global leader in smart energy technology. By leveraging world-class engineering capabilities and with a relentless focus on innovation, SolarEdge creates smart energy solutions that power our lives and drive future progress.

SolarEdge developed an intelligent inverter solution that changed the way power is harvested and managed in photovoltaic (PV) systems. The SolarEdge DC optimized inverter maximizes power generation while lowering the cost of energy produced by the PV system.

Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.