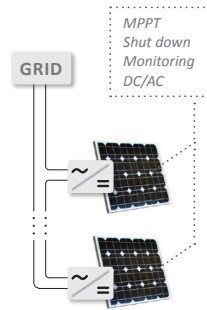


A COMPARISON OF MICROINVERTERS & POWER OPTIMIZERS

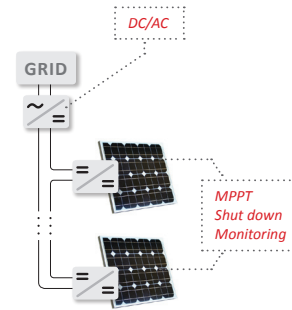
Module level electronics overcome the shortcomings of traditional inverters and enable maximum power, module level monitoring, flexible design and enhanced safety.

However, there is no need to add an inverter to every module if DC power optimizers can achieve all these benefits at lower cost, higher efficiency and higher reliability.

Microinverters



Power Optimizers

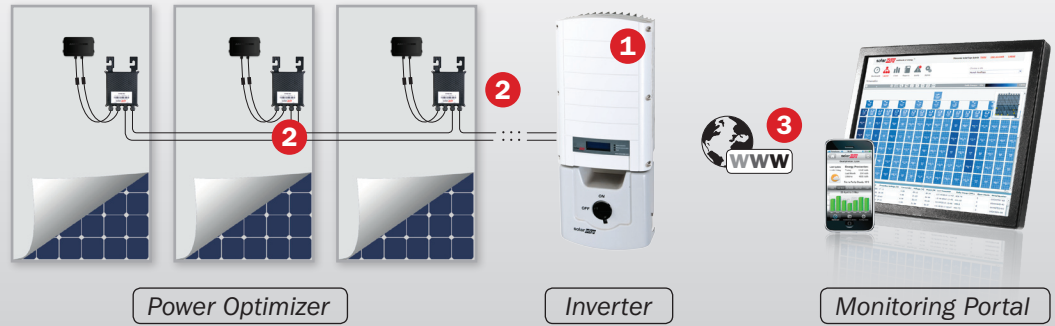


| Benefits | Microinverter Solutions | SolarEdge Solution | Details |
|---|-------------------------|--------------------|--|
| Cost per W Scalability | Higher Not Scalable | Lower Scalable | <ul style="list-style-type: none"> SolarEdge system cost is 20%-50% lower, including inverter and power optimizers, (both with 25 year warranty) built-in ethernet gateway, and 25 years of module level monitoring The cost/watt of a SolarEdge system decreases as the installation size increases |
| Added Energy | Lower | Higher | <ul style="list-style-type: none"> SolarEdge inverters are 97.5% CEC. The best Microinverter is 96% SolarEdge Power Optimizers have a wider MPPT range and track voltage from 5V. Microinverters have a higher minimum voltage requirement equaling a lower shade tolerance SolarEdge Power Optimizers support up to 400W modules with no energy loss due to clipping in any solar conditions |
| Reliability | Lower | Higher | <ul style="list-style-type: none"> SolarEdge Power Optimizers have about 1/3 of the parts count of a typical Microinverter. Fewer parts equals lower failure rates and extended product life time SolarEdge Power Optimizers use ceramic capacitors. Some microinverters use electrolytic capacitors. The lifetime of an electrolytic capacitor will be greatly reduced if it is exposed to high temperatures Microinverters generate more heat due to their lower efficiencies leading to accelerated module degradation and reduced reliability |
| Compatibility | Limited | Broad | <ul style="list-style-type: none"> Power Optimizers are compatible with any c-Si modules, up to 400W / 96 cells. Microinverters are limited by their DC input range to 60 cell Modules |
| Communication and Monitoring | Vulnerable | Robust | <ul style="list-style-type: none"> SolarEdge inverters use Power Line Communications in a controlled DC environment. MicroInverters use AC Power Line Communications which is highly susceptible to interference caused by AC devices SolarEdge inverters have an ethernet gateway built in. Microinverters require an external communication gateway |
| Installation Flexibility and Cabling | Limited | Flexible | <ul style="list-style-type: none"> SolarEdge fixed string voltage allows for fewer strings with up to 25 optimizers per string. Microinverters are limited to 17 modules per branch circuit SolarEdge Power Optimizers and Inverters are wired with standard PV wire. Microinverters require an expensive trunk cable and dedicated AC load center prior to the AC disconnect |

Ordering Guidelines

How to order SolarEdge

- 1 Inverter
- 2 Optimizer & Connectors
- 3 Communication



1 Inverter (UL1741 certified):

Select inverter quantity and model. For example: 1 x "SE5000A-US".

| Max. recommended DC Power (@STC) | 3750 W | 4750 W | 6250 W | 7500 W |
|----------------------------------|------------|------------|------------|------------|
| SolarEdge inverter P/N | SE3000A-US | SE3800A-US | SE5000A-US | SE6000A-US |
| Soligent inverter P/N | 310-0367 | 310-0368 | 310-0369 | 310-0370 |

* Grid compatibility: SE3000A-US/SE3800A-US: 208V/240V. SE5000A-US/SE6000A-US: 208V/240V/277V.

2 Power Optimizer & Connectors:

Select power optimizer P/N from table below.

Quantity: One power optimizer per module.

Optimizer type: Select optimizer type matching the module peak power (STC) and Voc.

Connector: Select power optimizer input connectors matching the module cable connectors.

| Module connectors | Module peak power / Voc | | |
|-------------------|-------------------------|---------------|---------------|
| | 250W / 55 Voc | 300W / 75 Voc | 400W / 75 Voc |
| Multi contact MC4 | 565-0159 | 565-0169 | 565-0173 |
| Amphenol H4 | 565-0161 | 565-0172 | 565-0176 |
| Huber Suhner | 565-0177 | 565-0171 | 565-0175 |
| Tyco | 565-0160 | 565-0170 | 565-0174 |

3 Inverter Connectivity: Each inverter is provided with an Ethernet port for FREE network connectivity

| Optional Wireless Inverter option | Home ZigBee gateway | Slave inverter ZigBee |
|---|---------------------|-------------------------|
| Inverter -> Home wireless (instead of RJ45) | SE1000-ZBDG2X-NA | Soligent P/N (570-0910) |

Included with every SolarEdge system:

- Ethernet/RS485 ports in each inverter for FREE network connectivity.
- 25 years FREE inverter and module-level real time monitoring.
- 25 year power optimizer warranty. 12 year inverter warranty.

Inverter warranty extension from 12 to 20/25 years available at: (<http://www.solaredge.us/groups/us/service/warranty>)

| Extension from 12 to 20 years | 20 years | 25 years |
|---------------------------------|----------|----------|
| Single Phase Inverter <4kW | \$228 | \$370 |
| Single Phase Inverter 4kW - 6kW | \$228 | \$469 |

Contact SolarEdge today: infoNA@solaredge.com | +1 (530) 273 3096 | Support (Toll free) +1 (877) 360 5292