

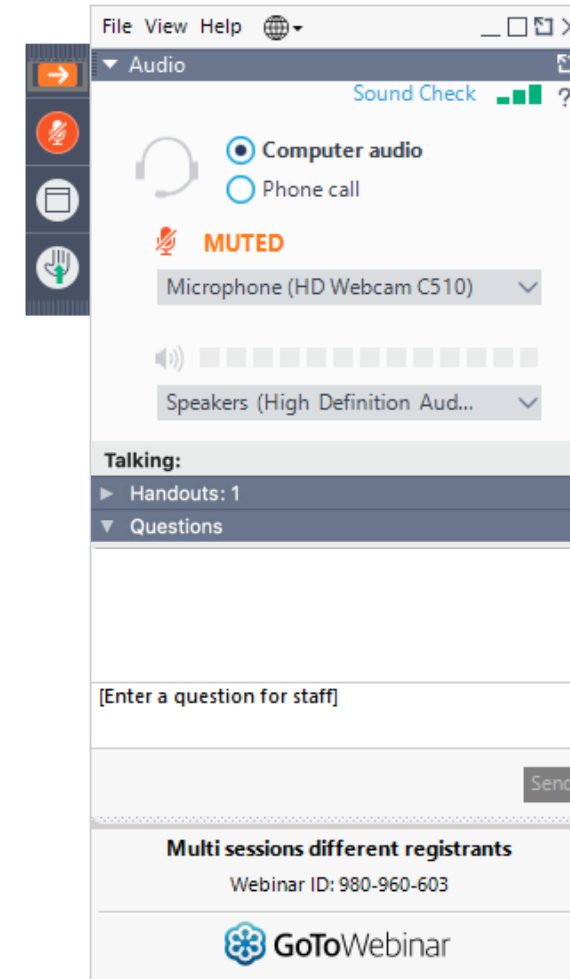


Fundamental Updates for 2021

February 2021

Webinar Information

- Audio: PC or phone
- Participants on **mute**
- Submit questions
- Follow-up & Recording



Presenters



Doug Meldrum

Strategic Accounts Manager
Australia and NZ



Peter Edmonds

Technical Account
Manager

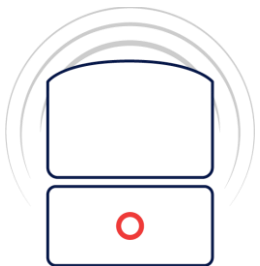
What Are We Going to Talk About?



Single String Design Rules



The New Smart Alerts System



Genesis Inverter Launch



SolarEdge Wireless Gateway



Addendum



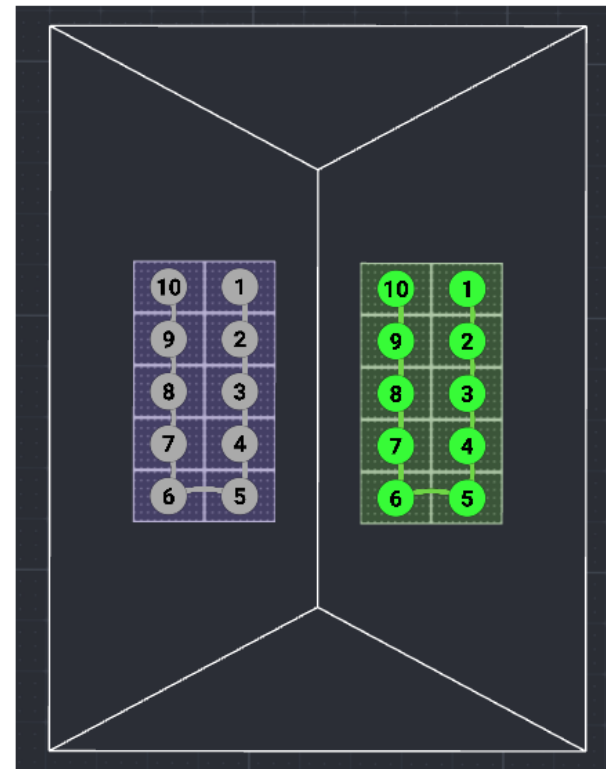
Single String Design Rules

Single String Design Benefits

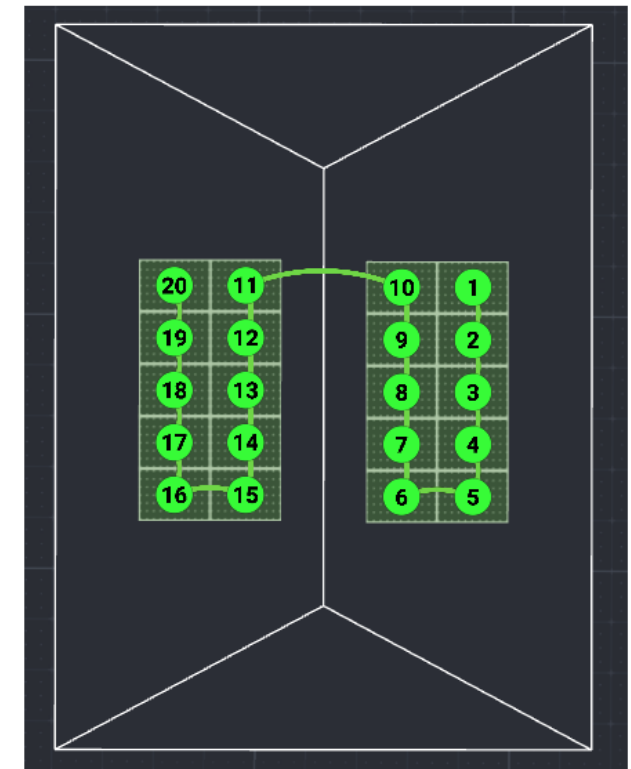
Maximum Flexibility

- Single string up to 5.7kW
- Easier, simpler design
- Simpler, less expensive installation
- Decreased yield factors - shade

Regular Design



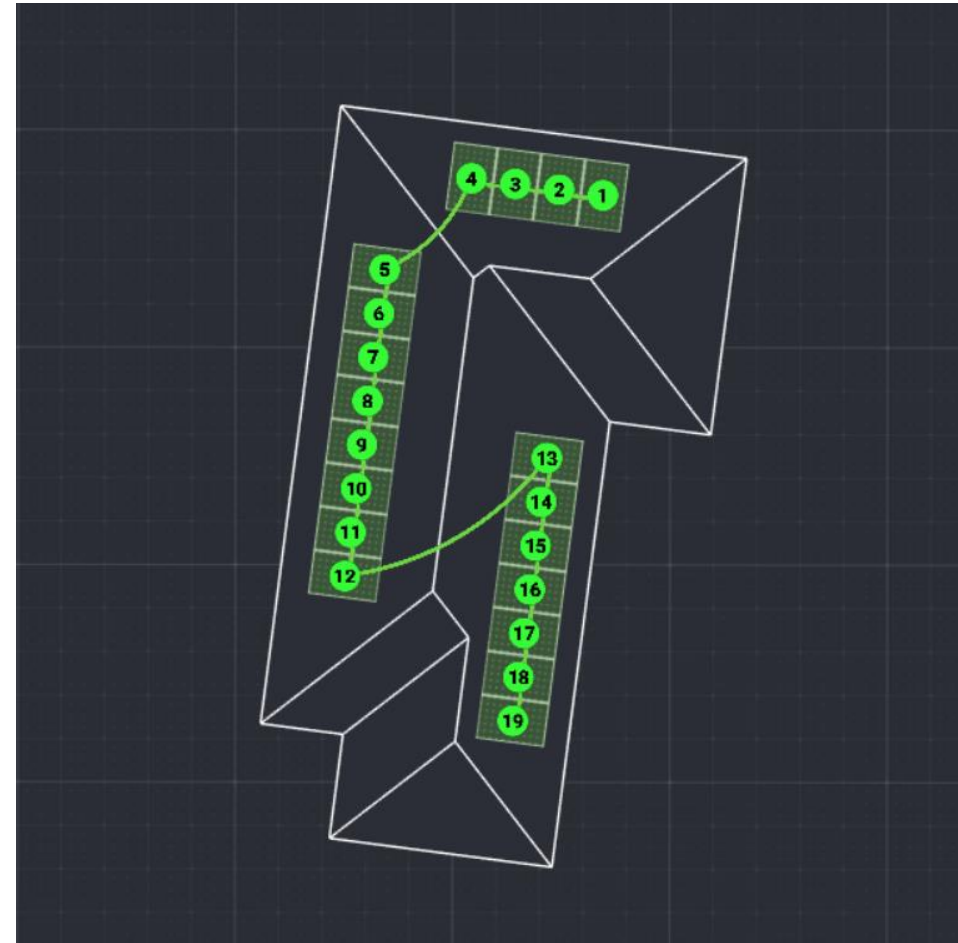
Single String Design



Single String Design Benefits

Maximum Flexibility

- Single string up to 5.7kW
- Easier, simpler design
- Simpler, less expensive installation
- Decreased yield factors - shade



When can I apply Single String Designs?

Single Phase

- Is your inverter AC nameplate power \leq **5700W***?
- String power allowed up to the regional approved DC/AC oversizing, or;
- Up to 25 Power Optimisers per string

*5700W with 15A Power Optimisers

* \leq 5250W with none HD-wave single phase inverters



When can I apply Single String Designs?

Three Phase

- Is your inverter AC nameplate power \leq **5625W***?
- String power allowed up to the regional approved DC/AC oversizing, or;
- Up to 25 Power Optimisers per string

*5700W with 15A Power Optimisers

* \leq 5250W with none HD-wave single phase inverters



When can I apply Single String Designs?

Extension of Single String Designs

Following design guidelines;

- String power allowed up to the regional approved DC/AC oversizing, or;
- Up to 25 optimizers per string

Single Phase SE10000H Inverter

- 2 * Strings of 6.67kW is permitted

3-Phase SE10K Inverter

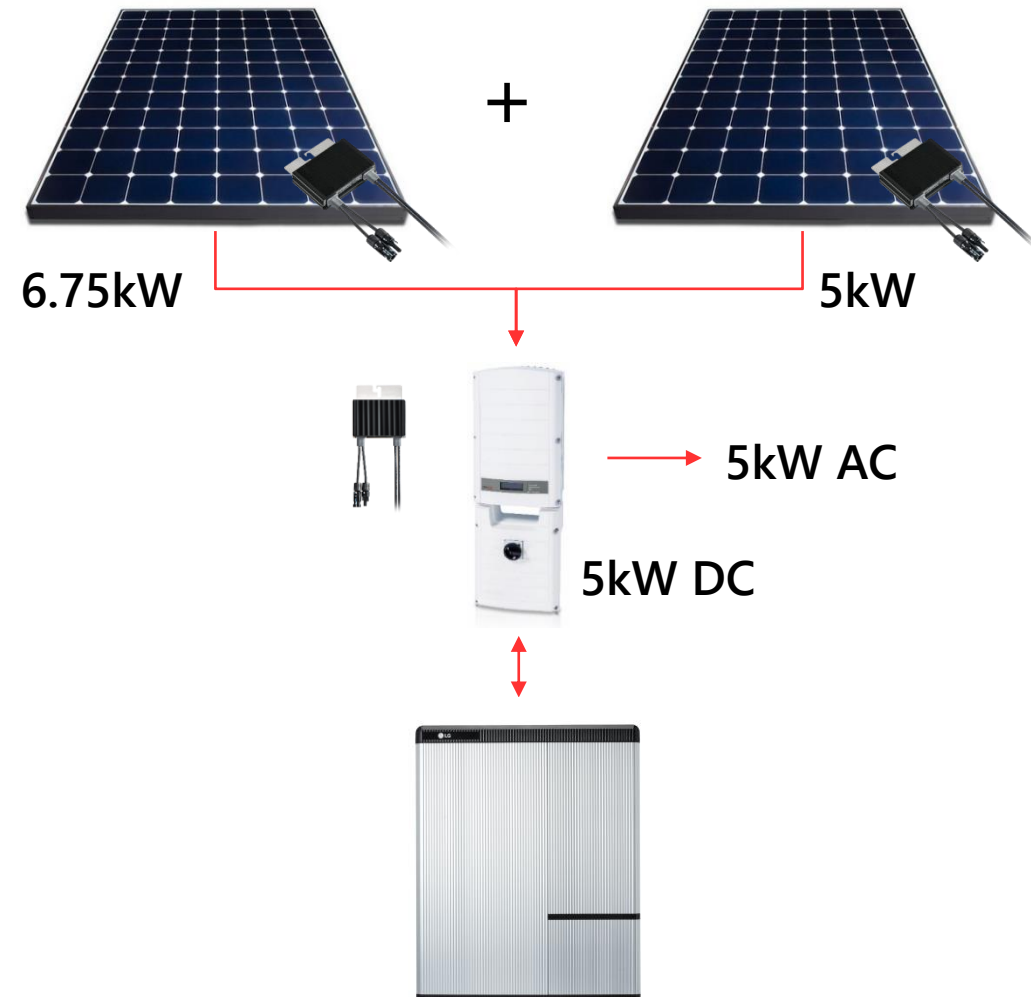
- 2 * Strings of 6.67kW is permitted

*5700W with 15A Power Optimizers * ≤5250W with none HD-wave single phase inverters

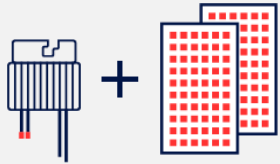
Battery Installations

Single & Three Phase

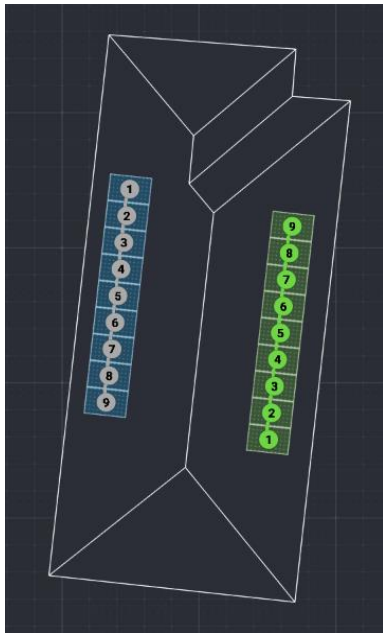
- Install 2 strings when a battery is connected
- Inverter supplies loads
- Inverter charges battery(s)
- Avoid DC clipping to ensure battery charging



Example 1 | Single Phase



SE5000H inverter with 133%
oversizing



Max allowed string power:

- $380\text{Vdc} \times 15\text{A} = 5700\text{W}$

Installed DC Power:

- Total of 6.66KW

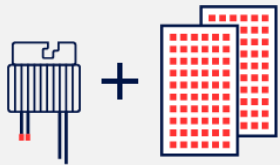
Installed strings:

- 2 Strings

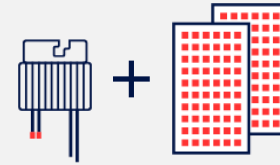
Optimizer per string

- 9x P401

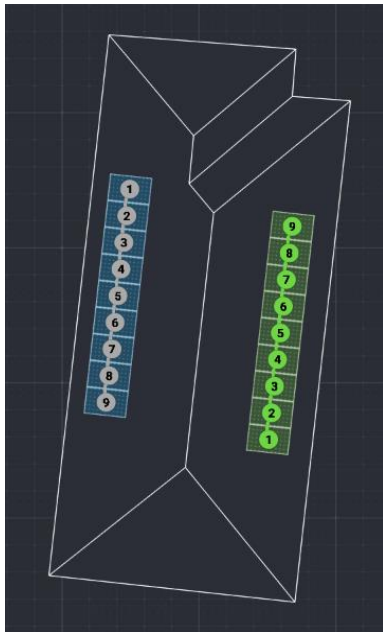
Example 1 | Single Phase



SE5000H inverter with 133%
oversizing



SE5000H inverter with 133%
oversizing and single string



Max allowed string power:

- $380\text{Vdc} \times 15\text{A} = 5700\text{W}$

Installed DC Power:

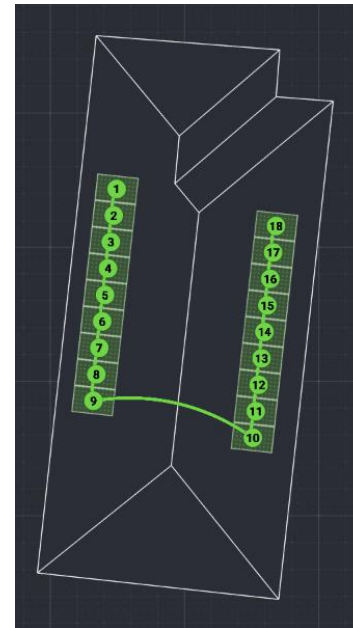
- Total of 6.66KW

Installed strings:

- 2 Strings

Optimizer per string

- 9x P401



Max allowed string power:

- Up to allowed DC/AC
oversizing or 25 optimizers
per string

Installed DC Power

- Total of 6.66W

Installed strings:

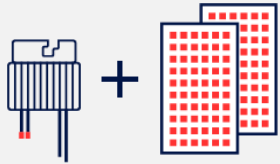
- **1 String***

Optimizer per string

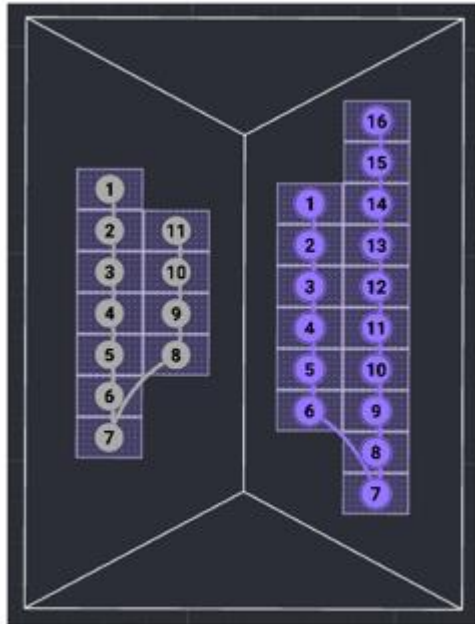
- 18x P401

* With the installation of a battery its advised to install 2 strings

Example 2 | Single Phase + Battery



SE5000H inverter with 200%
oversizing



Max allowed string power:

- $380\text{Vdc} \times 15\text{A} = 5700\text{W}$

Installed DC Power:

- Total of 10KW

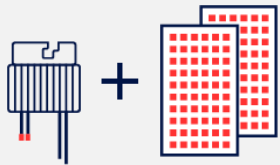
Installed strings:

- 2 Strings

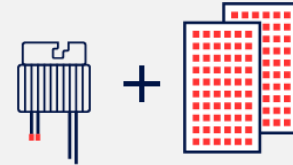
Optimizer per string

- 16x P401 + 11x P401

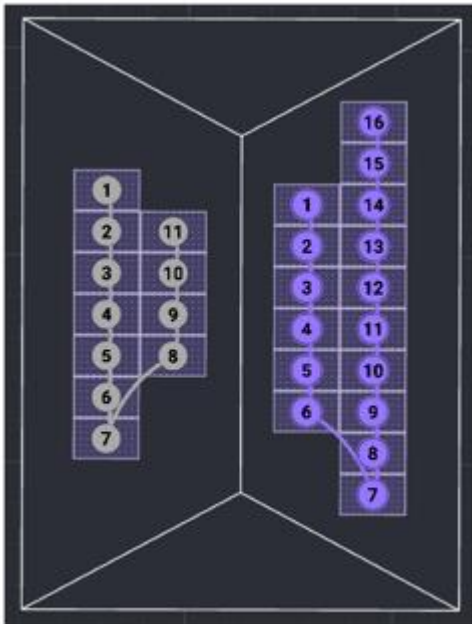
Example 2 | Single Phase + Battery



SE5000H inverter with 200% oversizing



SE5000H inverter with 200% oversizing and single string
NOT ALLOWED + DC CLIPPING



Max allowed string power:

- 380Vdc x 15A = 5700W

Installed DC Power:

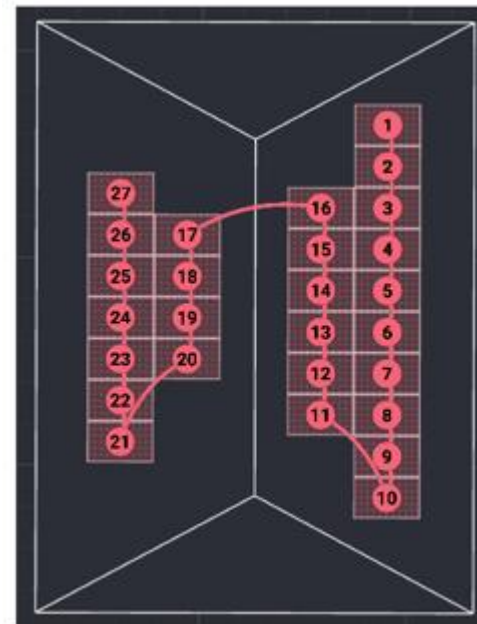
- Total of 10KW

Installed strings:

- 2 Strings

Optimizer per string

- 16x P401 + 11x P401



Max allowed string power:

- **Up to allowed DC/AC oversizing or 25 optimizers per string**

Installed DC Power

- Total of 10KW

Installed strings:

- 1 String

Optimizer per string

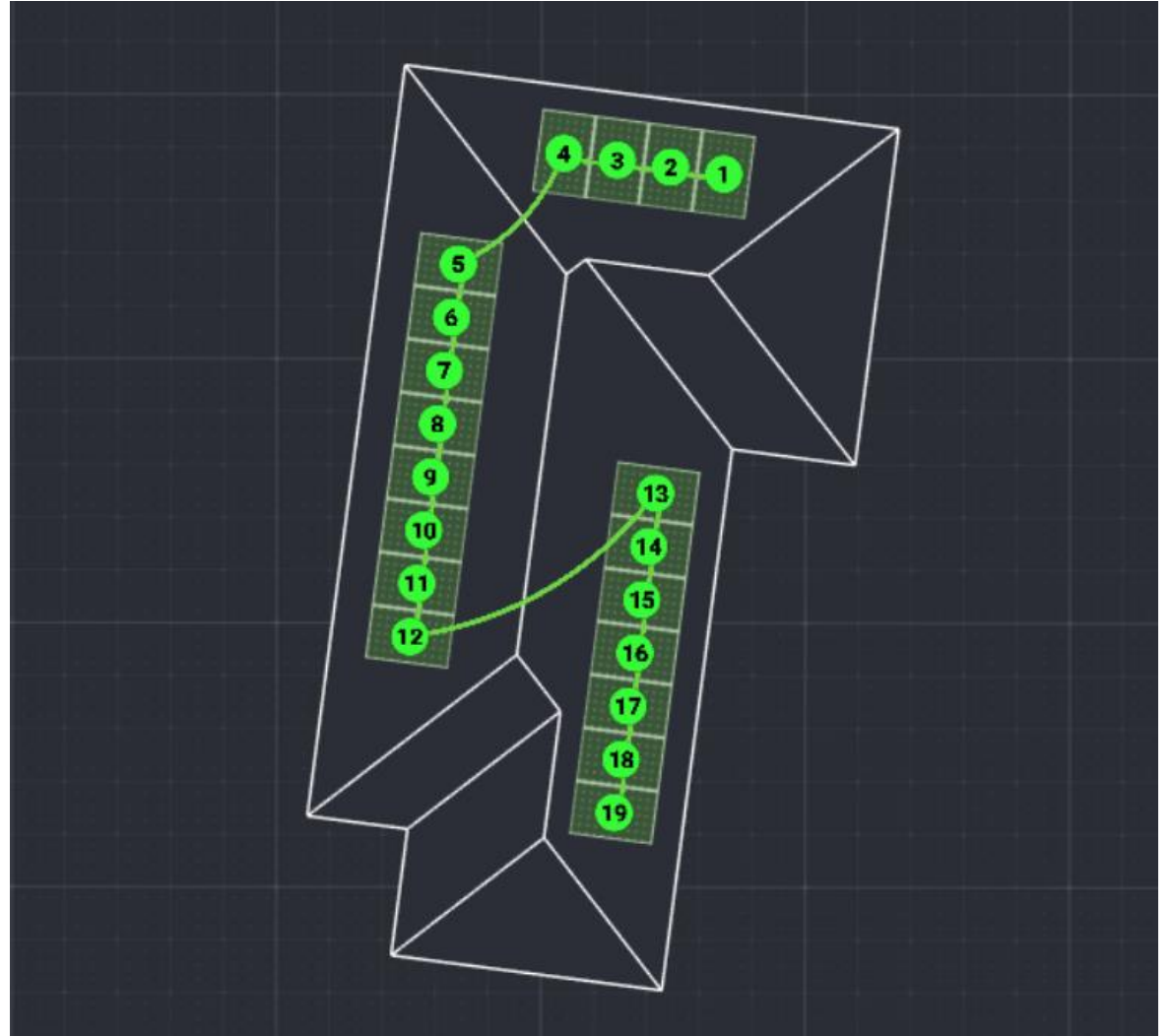
- **27x 401**

* With the installation of a battery its advised to install 2 strings

Design Rules

Design Validation

- // Use SolarEdge Designer
- // Assess string clipping
- // Get a recommended design
- // Test 2 vs 3 strings



Single String Suitability

HD Wave + Genesis
SE3000H – SE5000H
SE3000H + SE5000H EV



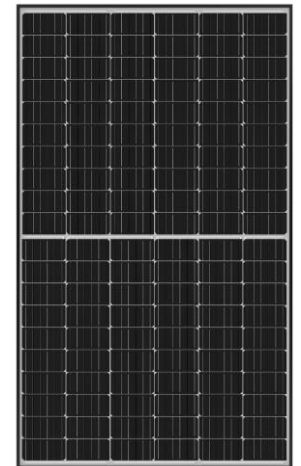
StorEdge + Energy Hub
SE3000-AUS + SE5000-AUS
SE3000H-AUS – SE5000H-AUS



Three Phase Hybrid
SE5K-AUB Residential



Smart Panel
360W – 370W



Simplified Power Optimiser Offering



P401 for panels < 400W




P505 for all other panels & short strings

A photograph of a solar farm at sunset. The sun is low on the horizon, creating a bright orange and yellow glow. The solar panels are arranged in rows, and their surfaces are reflecting the sunlight. Three warning icons are overlaid on the panels: two blue triangles and one red triangle, each containing a red exclamation mark. The right side of the image is a solid red background.

The New Smart Alerts System

Transition to The New Alerts System

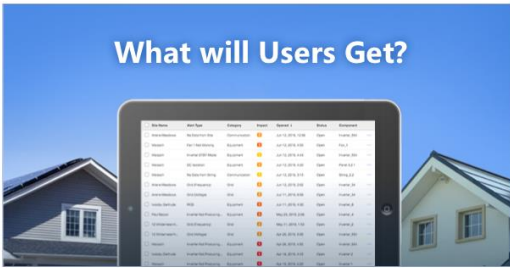


Experience our revamped alerts before everyone else!

We are thrilled to offer you the opportunity to be amongst the firsts who benefit from SolarEdge's new easy-to-use smart alerts system.

Improve your O&M efficiency with visibility to issues across your PV sites, to quickly and reliably diagnose and troubleshoot faults.


1/4 Cancel Next



What will Users Get?

- Advanced fleet management capabilities to save significant time
- Alerts prioritization for easy alerts handling
- Customization options to see only what you need
- Troubleshooting steps recommendations to quickly solve issues

2/4 Back Next




Transition to New System

Transition to the new alerts system will take effect on your account and all its sub-accounts. Note that once your account is transitioned to the new alerts system, access to the old alerts will be de-activated and configurations and data of old alerts cannot be restored. This will not affect any other monitoring platform data.

I agree to make a transition to the new alert system

3/4 Not Now Go To The New Alert System



Welcome to the NEW Smart Alerts System!

Your account has successfully transitioned to the new alerts system!

To get you up to speed with the enhanced and improved system, here are some relevant resources:

- [Step-by-step tutorial videos](#)
- [Application note – alerts in the monitoring platform](#)

4/4 Close

SolarEdge Alerts System At-a-Glance



Efficient fleet
management



Save valuable
time



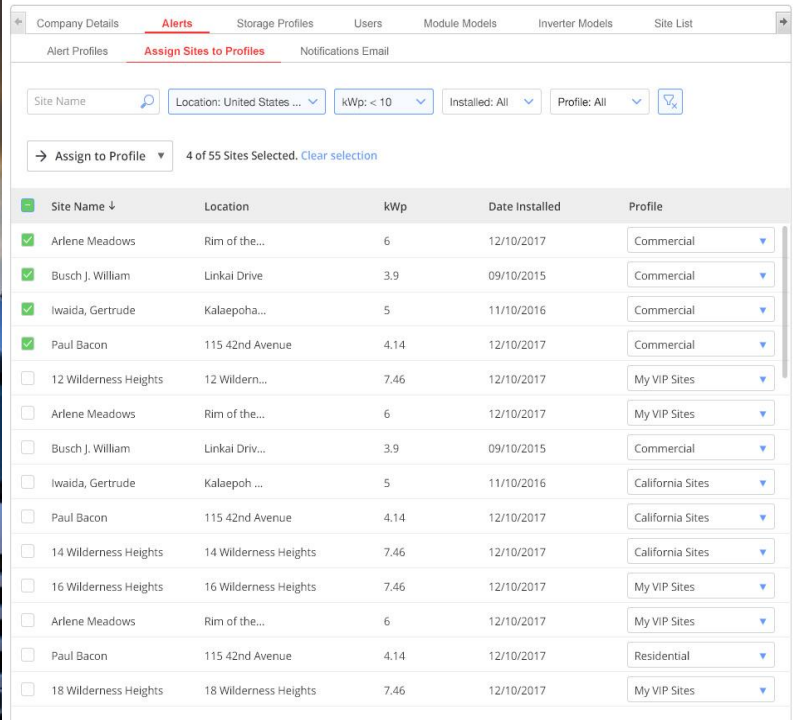
Easily spot
issues



Resolve issues
Independently

Efficiently Manage Your Fleet

- Review entire fleet alerts
- All alerts are displayed in one screen
- Filter and sort alerts
- Save time with automated alerts
- Configure alerts profiles
- Define email notifications
- Close multiple alerts in one click



Company Details Alerts Storage Profiles Users Module Models Inverter Models Site List

Alert Profiles Assign Sites to Profiles Notifications Email

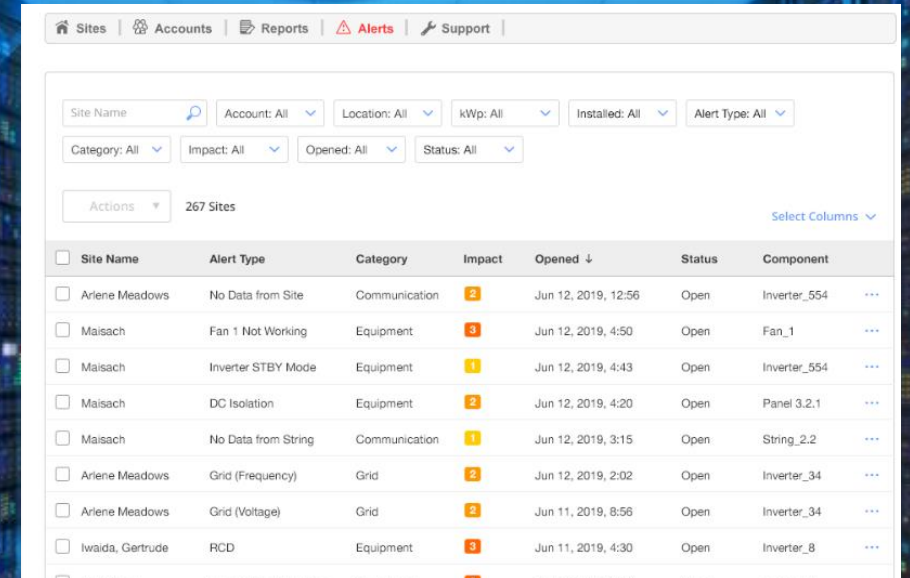
Site Name Location: United States ... kWp: < 10 Installed: All Profile: All

→ Assign to Profile 4 of 55 Sites Selected. Clear selection

Site Name ↓	Location	kWp	Date Installed	Profile
<input checked="" type="checkbox"/> Arlene Meadows	Rim of the...	6	12/10/2017	Commercial
<input checked="" type="checkbox"/> Busch J. William	Linkai Drive	3.9	09/10/2015	Commercial
<input checked="" type="checkbox"/> Iwaida, Gertrude	Kalaepoha...	5	11/10/2016	Commercial
<input checked="" type="checkbox"/> Paul Bacon	115 42nd Avenue	4.14	12/10/2017	Commercial
<input type="checkbox"/> 12 Wilderness Heights	12 Wildern...	7.46	12/10/2017	My VIP Sites
<input type="checkbox"/> Arlene Meadows	Rim of the...	6	12/10/2017	My VIP Sites
<input type="checkbox"/> Busch J. William	Linkai Driv...	3.9	09/10/2015	Commercial
<input type="checkbox"/> Iwaida, Gertrude	Kalaepoh ...	5	11/10/2016	California Sites
<input type="checkbox"/> Paul Bacon	115 42nd Avenue	4.14	12/10/2017	California Sites
<input type="checkbox"/> 14 Wilderness Heights	14 Wilderness Heights	7.46	12/10/2017	California Sites
<input type="checkbox"/> 16 Wilderness Heights	16 Wilderness Heights	7.46	12/10/2017	My VIP Sites
<input type="checkbox"/> Arlene Meadows	Rim of the...	6	12/10/2017	My VIP Sites
<input type="checkbox"/> Paul Bacon	115 42nd Avenue	4.14	12/10/2017	Residential
<input type="checkbox"/> 18 Wilderness Heights	18 Wilderness Heights	7.46	12/10/2017	My VIP Sites

Prioritise Alerts Using the Impact Indicator

- Get severity indication
- Prioritise alerts based on their impact
- Prioritise your workflow
- Calculate risk
- Indicate possible energy loss
- Benefit from Troubleshooting Recommendations



The screenshot shows a software interface for managing alerts. At the top, there are navigation tabs: Sites, Accounts, Reports, Alerts, and Support. Below the tabs are several filter dropdowns: Site Name, Account: All, Location: All, kWp: All, Installed: All, Alert Type: All, Category: All, Impact: All, Opened: All, and Status: All. Below the filters, there is an 'Actions' dropdown and a '267 Sites' indicator. A 'Select Columns' dropdown is also visible. The main part of the interface is a table with the following columns: Site Name, Alert Type, Category, Impact, Opened, Status, and Component. The Impact column uses colored indicators (1, 2, 3) to show severity. The table contains several rows of alert data.

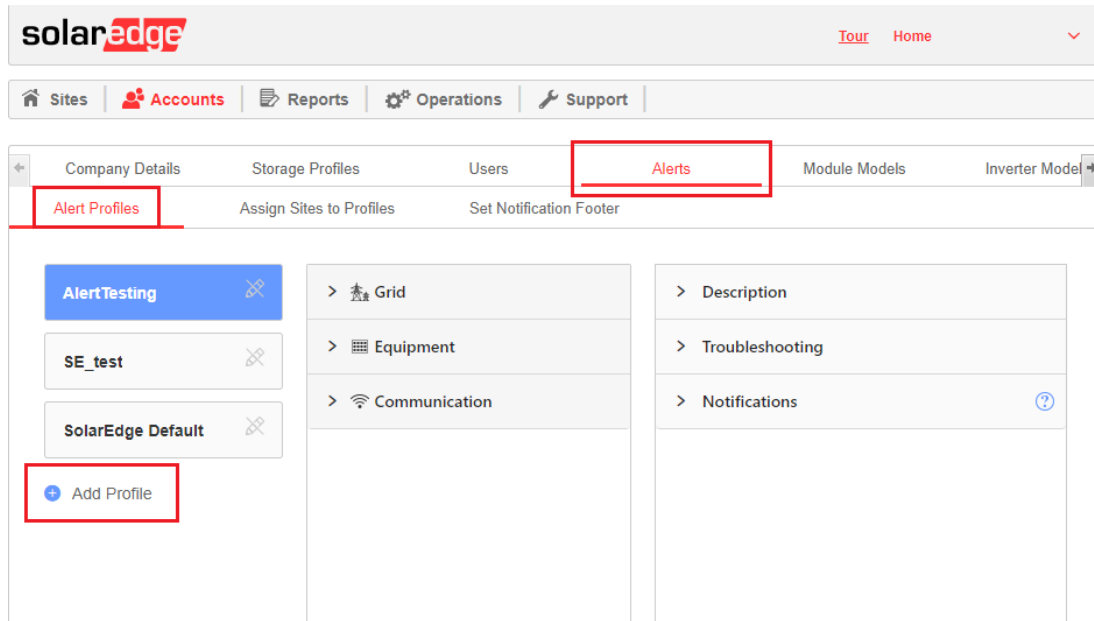
<input type="checkbox"/>	Site Name	Alert Type	Category	Impact	Opened ↓	Status	Component	
<input type="checkbox"/>	Arlene Meadows	No Data from Site	Communication	2	Jun 12, 2019, 12:56	Open	Inverter_554	...
<input type="checkbox"/>	Maisach	Fan 1 Not Working	Equipment	3	Jun 12, 2019, 4:50	Open	Fan_1	...
<input type="checkbox"/>	Maisach	Inverter STBY Mode	Equipment	1	Jun 12, 2019, 4:43	Open	Inverter_554	...
<input type="checkbox"/>	Maisach	DC Isolation	Equipment	2	Jun 12, 2019, 4:20	Open	Panel 3.2.1	...
<input type="checkbox"/>	Maisach	No Data from String	Communication	1	Jun 12, 2019, 3:15	Open	String_2.2	...
<input type="checkbox"/>	Arlene Meadows	Grid (Frequency)	Grid	2	Jun 12, 2019, 2:02	Open	Inverter_34	...
<input type="checkbox"/>	Arlene Meadows	Grid (Voltage)	Grid	2	Jun 11, 2019, 8:56	Open	Inverter_34	...
<input type="checkbox"/>	Iwaids, Gertrude	RCD	Equipment	3	Jun 11, 2019, 4:30	Open	Inverter_8	...

Preview: How to Create a New Profile

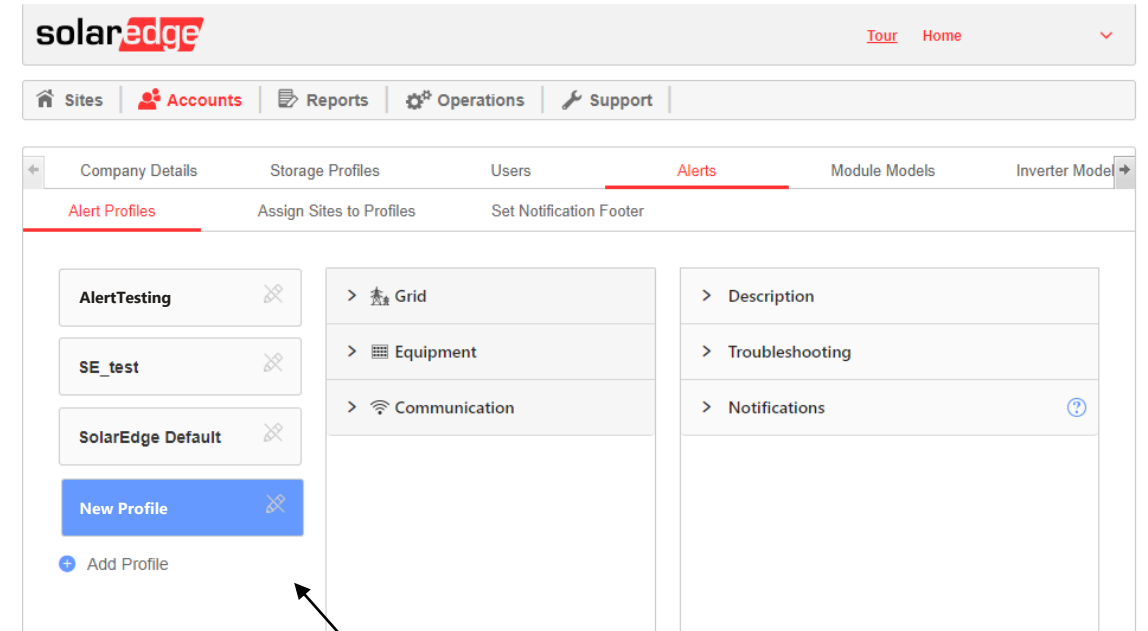
The screenshot displays the SolarEdge web interface. At the top left is the 'solar_{edge}' logo. To its right are links for 'Tour' and 'Home'. Below the logo is a navigation bar with icons and labels for 'Sites', 'Accounts', 'Reports', 'Operations', and 'Support'. A secondary navigation bar contains tabs for 'Company Details', 'Storage Profiles', 'Users', 'Alerts', 'Module Models', and 'Inverter Model'. The 'Alerts' tab is selected and highlighted with a red box. Underneath, there are sub-tabs: 'Alert Profiles' (highlighted with a red box), 'Assign Sites to Profiles', and 'Set Notification Footer'. The main content area is divided into three columns. The left column lists existing alert profiles: 'AlertTesting', 'SE_test', and 'SolarEdge Default', each with a delete icon. At the bottom of this list is a button labeled '+ Add Profile', which is highlighted with a red box. The middle column has expandable sections for 'Grid', 'Equipment', and 'Communication'. The right column has expandable sections for 'Description', 'Troubleshooting', and 'Notifications'.

Add New Profile

Preview: How to Create a New Profile



The screenshot shows the SolarEdge web interface. At the top, the 'solar_{edge}' logo is on the left, and 'Tour Home' with a dropdown arrow is on the right. Below the logo is a navigation bar with 'Sites', 'Accounts', 'Reports', 'Operations', and 'Support'. A secondary navigation bar contains 'Company Details', 'Storage Profiles', 'Users', 'Alerts', 'Module Models', and 'Inverter Model'. The 'Alerts' tab is highlighted with a red box. Underneath, there are sub-tabs: 'Alert Profiles', 'Assign Sites to Profiles', and 'Set Notification Footer'. The 'Alert Profiles' sub-tab is also highlighted with a red box. On the left side of the main content area, there is a list of profile cards: 'AlertTesting', 'SE_test', and 'SolarEdge Default'. Below these is a blue button with a plus sign and the text 'Add Profile', which is highlighted with a red box. To the right of the profile list are three expandable sections: 'Grid', 'Equipment', and 'Communication'. Further right are three sections: 'Description', 'Troubleshooting', and 'Notifications'.



This screenshot is identical to the previous one, but with the 'New Profile' button highlighted in blue. An arrow points from a text box below to this button.

New Profile Added

Preview: Configuring & Setting Email Notifications

The screenshot displays the SolarEdge Alerts configuration interface. The top navigation bar includes the SolarEdge logo, a 'Tour Home' dropdown, and main menu items: Sites, Accounts, Reports, Operations, and Support. Below this is a secondary navigation bar with tabs for Company Details, Storage Profiles, Users, Alerts (selected), Module Models, and Inverter Model. Under the Alerts tab, there are sub-tabs for Alert Profiles, Assign Sites to Profiles, and Set Notification Footer. The main content area is divided into three sections:

- Alert Profiles:** A list of profiles including AlertTesting, SE_test, SolarEdge Default, and a highlighted New Profile button. An 'Add Profile' link is at the bottom.
- Equipment:** A list of rules with toggle switches:
 - Inverter - Production iss... (checked)
 - Battery CB tripped (checked)
 - Fan fault (checked)
 - Battery below min SOE (checked)
- Communication:** A list of rules with toggle switches:
 - Site - No comm (checked)
 - Power Optimizer - No c... (checked)
 - Inverter - No comm (checked)
 - Battery - No comm (unchecked)
 - Meter - No comm (unchecked)
 - String - No comm (unchecked)
- Grid:** A section with a collapsed toggle switch.

On the right side, there are expandable sections for Description, Troubleshooting, and Notifications. A callout box with the text 'Enable Relevant Rules' has an arrow pointing to the 'Inverter - Production iss...' rule's toggle switch.

Preview: Configuring & Setting Email Notifications

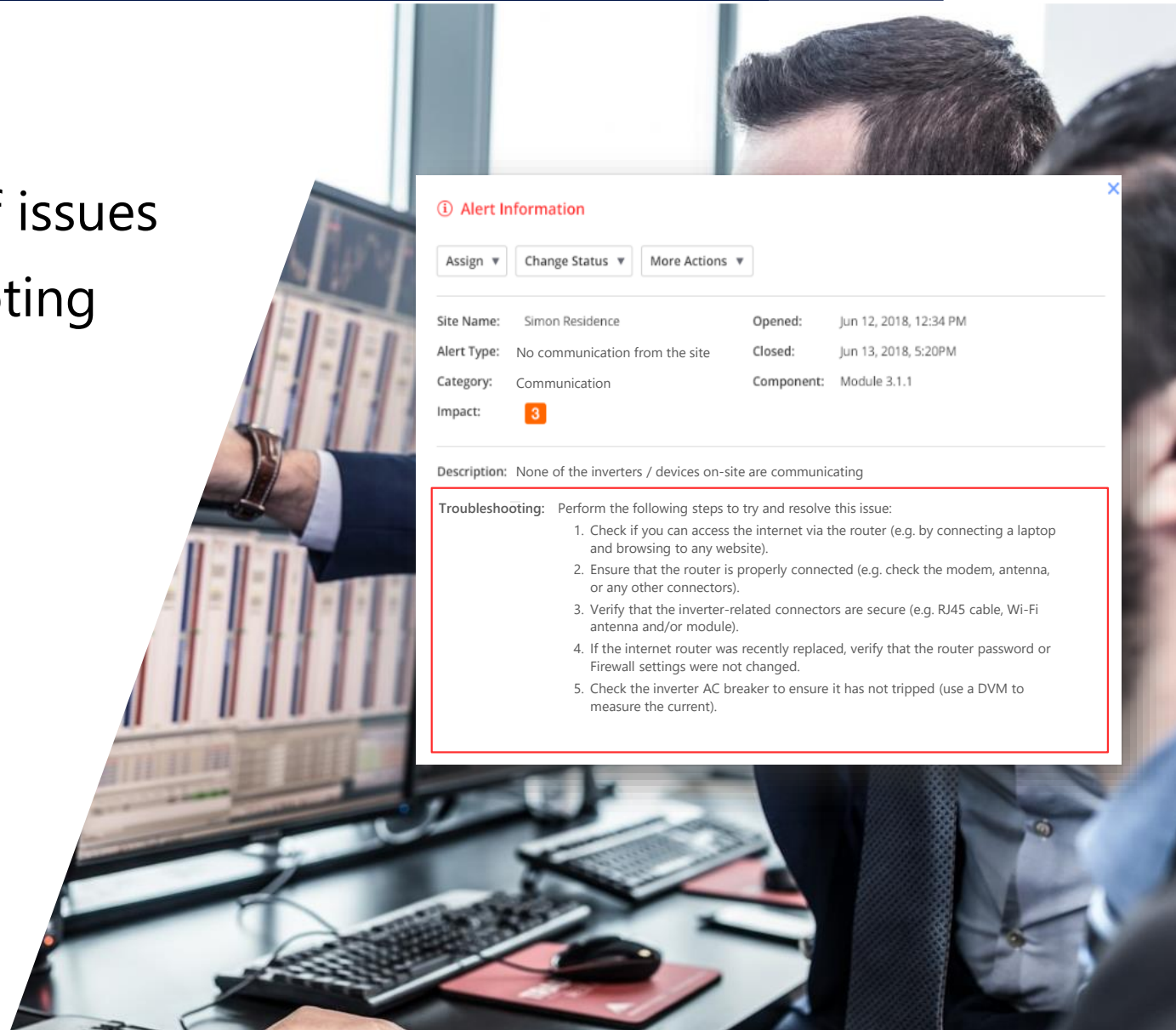
The screenshot shows the SolarEdge Alerts configuration page. The 'Alert Profiles' section is active, displaying a list of profiles: AlertTesting, SE_test, SolarEdge Default, and New Profile. The 'New Profile' button is highlighted. Below the profiles, there are sections for 'Equipment' and 'Communication' with various alert types and their corresponding toggle switches. The 'Equipment' section includes 'Inverter - Production iss...', 'Battery CB tripped', 'Fan fault', and 'Battery below min SOE'. The 'Communication' section includes 'Site - No comm', 'Power Optimizer - No c...', 'Inverter - No comm', 'Battery - No comm', 'Meter - No comm', and 'String - No comm'. The 'Grid' section is also visible at the bottom.

The screenshot shows the SolarEdge Alerts configuration page, focusing on the 'Notifications' section. The 'Alert Profiles' section is active, displaying a list of profiles: AlertTesting, SE_test, SolarEdge Default, and New Profile. The 'New Profile' button is highlighted. Below the profiles, there are sections for 'Equipment' and 'Communication' with various alert types and their corresponding toggle switches. The 'Equipment' section includes 'Inverter - Production iss...', 'Battery CB tripped', 'Fan fault', and 'Battery below min SOE'. The 'Communication' section includes 'Site - No comm', 'Power Optimizer - No c...', 'Inverter - No comm', 'Battery - No comm', 'Meter - No comm', and 'String - No comm'. The 'Grid' section is also visible at the bottom. The 'Notifications' section is expanded, showing options to send email notifications about alerts triggered by this rule to the following users: 'Click to select account users', 'System owners', and 'And/or to the following recipients: Email addresses'. An arrow points from the 'Set Email Notification to Optional Recipients' text box to the 'Notifications' section.

Set Email Notification
to Optional Recipients

Benefit from Troubleshooting Recommendations

- ▮ Enables independent resolution of issues
- ▮ Step-by-step detailed troubleshooting
- ▮ Automatic recommendations



Alert Information

Assign ▾ Change Status ▾ More Actions ▾

Site Name: Simon Residence Opened: Jun 12, 2018, 12:34 PM
Alert Type: No communication from the site Closed: Jun 13, 2018, 5:20PM
Category: Communication Component: Module 3.1.1
Impact: **3**

Description: None of the inverters / devices on-site are communicating

Troubleshooting: Perform the following steps to try and resolve this issue:

1. Check if you can access the internet via the router (e.g. by connecting a laptop and browsing to any website).
2. Ensure that the router is properly connected (e.g. check the modem, antenna, or any other connectors).
3. Verify that the inverter-related connectors are secure (e.g. RJ45 cable, Wi-Fi antenna and/or module).
4. If the internet router was recently replaced, verify that the router password or Firewall settings were not changed.
5. Check the inverter AC breaker to ensure it has not tripped (use a DVM to measure the current).

SolarEdge Monitoring Platform's Alerts System



Quick & accurate
troubleshooting
by installers



Minimal system
downtime



Enhanced
serviceability



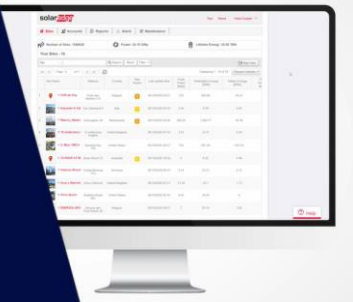
Peace of mind



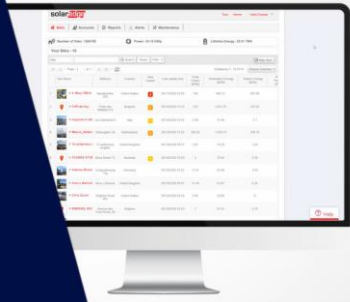
Free service
for 25 years

What Do I Do Next?

How to assign
an alerts profile
to sites



How to create
and configure
an alerts profile



How to view
account-level alerts



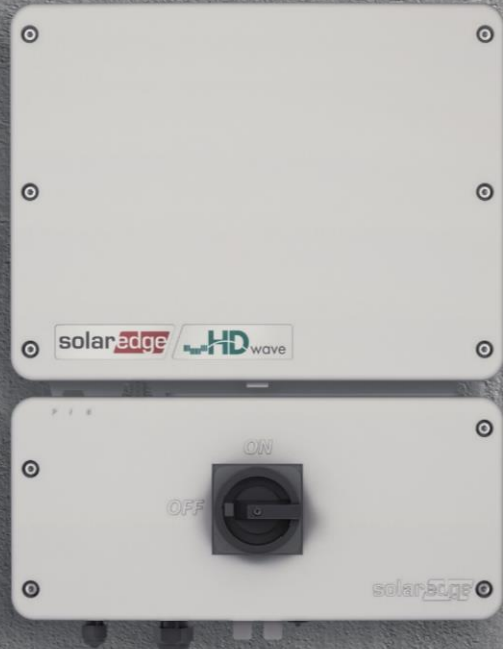
How to view
site-level alerts



How to set
alert notifications



GENESIS



Genesis Inverter Launch

HD Wave Genesis Offers Six Key Features

Improved
Pricing



Wide
Range



Fully
Optimised



Single
String



SolarEdge
Battery
Ready

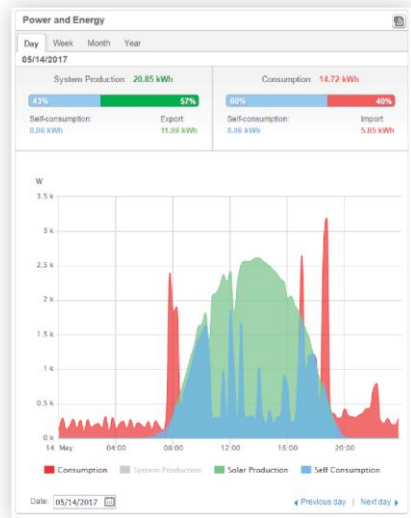


Dashboard
Monitoring
Only



Genesis Monitoring & mySolarEdge App

Homeowner Dashboard View



Installer Layout View & Alerts





SolarEdge Wireless Gateway

Small Yet Powerful

The Wireless Gateway

Walled garden



Small Yet Powerful

Wireless Repeater(s)

Extending the
Wi-Fi range



What's in the Box?



Wireless Gateway/Repeater



Gateway Antenna



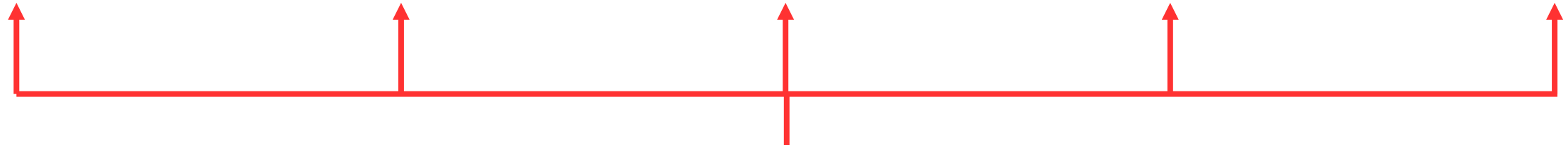
Ethernet Cable



Inverter Antenna



Installation Guide

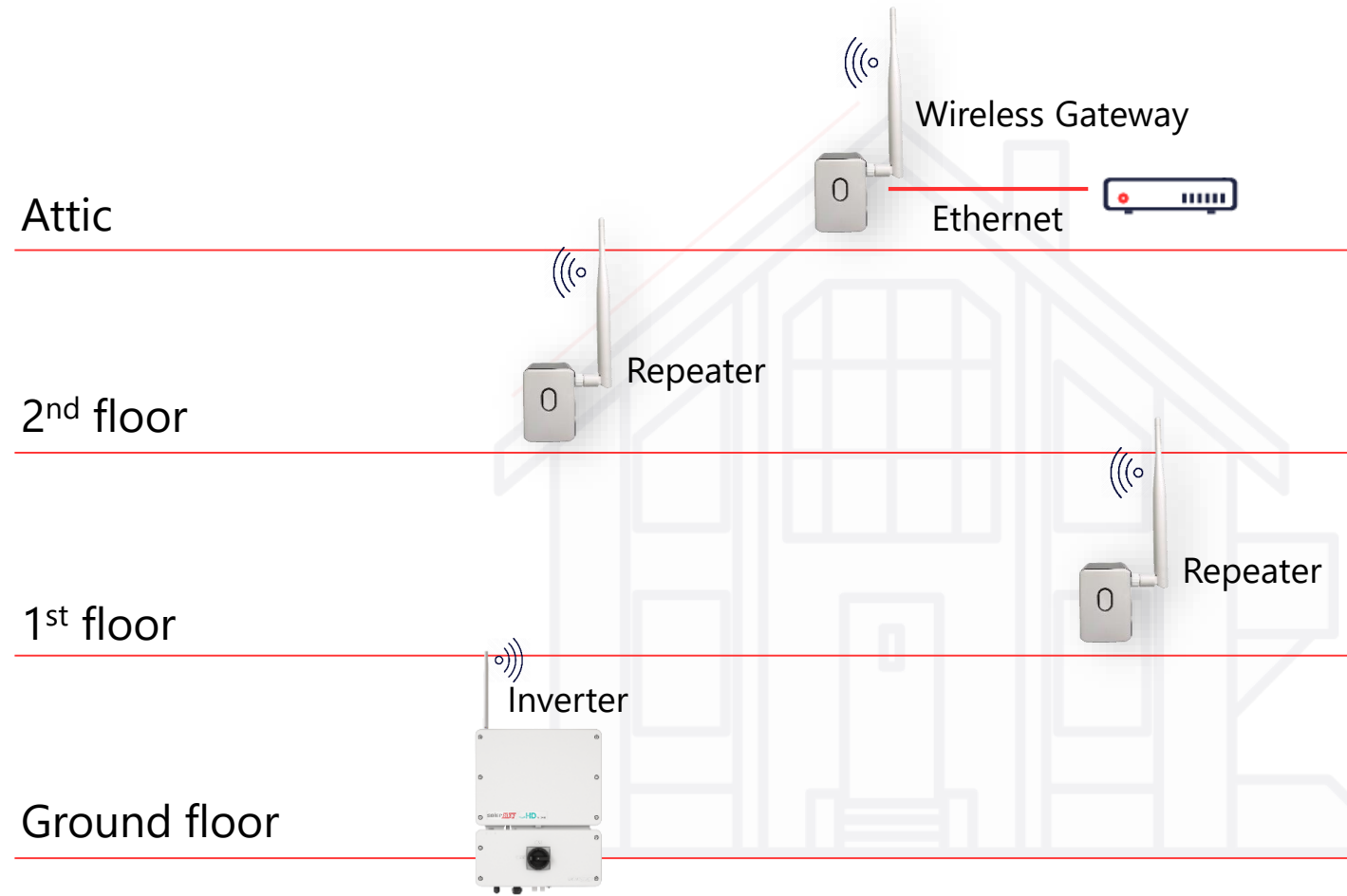


Small Yet Powerful

Wireless Repeater(s)

Extending the Wi-Fi range

Up to two repeater(s)



Three Key Takeaways from This Webinar

- 1 Single String**
Up to 6.7kW of panels on our 5kW residential inverters, using P401 and P505s
- 2 Genesis Inverter**
Offers core fully optimised SolarEdge performance at a price comparable to premium string systems
- 3 Stay in Control With the New Alerts System**
Get real-time visibility into your inverter fleet, helping you to quickly diagnose and troubleshoot system faults and proactively manage your customer's support needs

Questions & Survey





Thank You!

Cautionary Note Regarding Market Data & Industry Forecasts

This power point presentation contains market data and industry forecasts from certain third-party sources. This information is based on industry surveys and the preparer's expertise in the industry and there can be no assurance that any such market data is accurate or that any such industry forecasts will be achieved. Although we have not independently verified the accuracy of such market data and industry forecasts, we believe that the market data is reliable and that the industry forecasts are reasonable.

Version #: V.1.0
11/2018/ENG ROW

solar**edge**