



3ph New Synergy Inverters

Product Information

April 2021

(Public)

Solution Rationale

The new synergy inverter was introduced to support:

- ▀ Larger capacity
- ▀ Simplified installation and commissioning process
- ▀ Improved O&M
- ▀ Enhanced safety and protection
- ▀ Introduce new features



Three Phase Inverter with Synergy Technology up to 120kW

Providing in-depth system visibility that streamlines the installation and commissioning processes for commercial and industrial PV installations.

- 1 Less time onsite, lower costs**
 - Innovative installation and commissioning process
 - Automated validation and reporting
- 2 Simple installation and servicing**
 - Modular and lightweight units managed by a single point of control
- 3 Maximize system performance**
 - Larger capacity:
Up to 100kW @400Vac
Up to 120kW @480Vac grid,
150% oversizing
 - PID rectifier
- 4 Provide extra protection with an additional safety layer**
 - Thermal sensors on DC, AC terminal blocks
 - Monitored* and field replaceable surge protection devices

* Applicable only for DC and AC SPDs



Three Phase New Synergy Inverters up to 120K

- ▀ Larger capacity with
 - ▀ 50kW to 100kW @400Vac
 - ▀ 120kW @480Vac



Synergy Manager

- ▀ Contains communication board, AC and DC connection: no need to open the inverter units during installation
- ▀ Reduced BoS with support for single DC input and cost-effective aluminum cables
- ▀ Separation of AC and DC connections

Synergy Units (2-3)

- ▀ Inverter Unit only 32 kg each
- ▀ Same dimension, identical units for easy operation and logistics

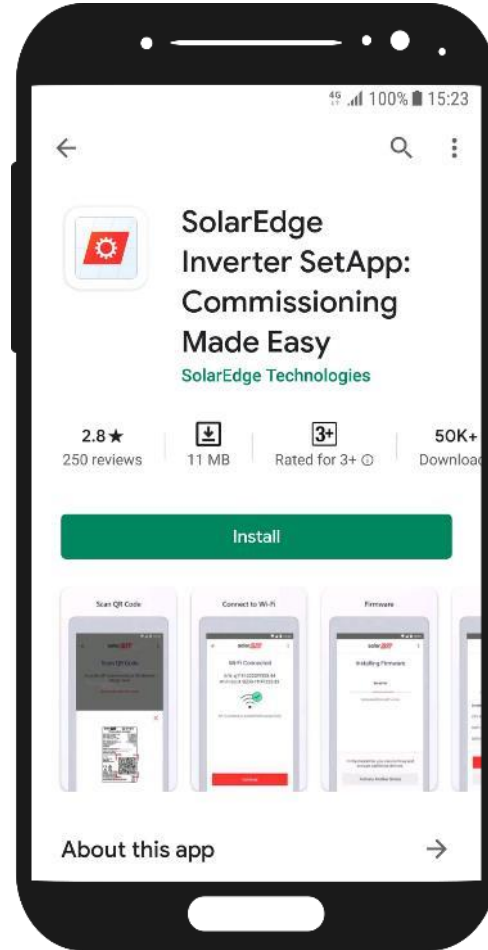
Pre-commissioning: What is it About?

Early-stage inspection and validation of:

Critical components

Pairing

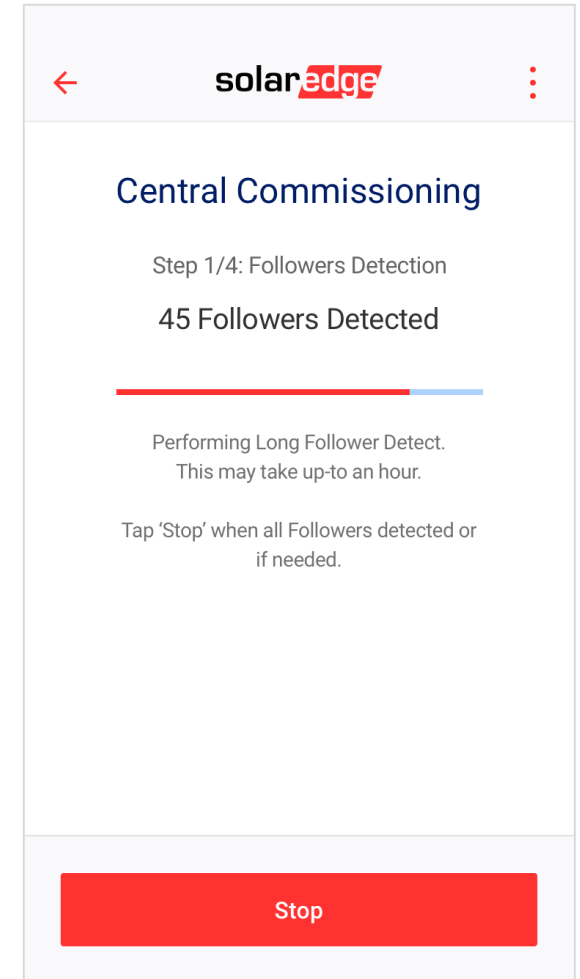
Wiring & communication



- / Streamline the commissioning process
- / Provide EPC clear progress report of the installation
- / Early-stage fault detection and resolution
- / Minimize time to revenue – faster deployments, less time between projects

SetApp: Central Commissioning for Multi-Inverter Sites

- Simplifies commissioning process for multi-inverter installations
- Enables the configuration of a single inverter and applies the settings to all follower inverters** connected to it
- Rapid commissioning time
- Reduces configuration errors and ensures all inverters are aligned to the same settings



Synergy Manager – Configurations

Product	PN
Configuration: EU Base No DC Switch, MC4, DC SPD	SE50K-RW00IBNM4 (only PL+UK)
	SE66.6K-RW00IBNM4
	SE90K-RW00IBNM4
	SE100K-RW00IBNM4
	SE120K-RW08IBNM4
Configuration: EU Switch DC Switch, MC4, DC SPD	SE50K-RW00IBNQ4 (only PL+UK)
	SE66.6K-RW00IBNQ4
	SE90K-RW00IBNQ4
	SE100K-RW00IBNQ4
	SE120K-RW08IBNQ4
Configuration: EU Fuse DC Switch, MC4, DC SPD, Fuses	SE50K-RW00IBNC4 (only PL+UK)
	SE66.6K-RW00IBNC4
	SE90K-RW00IBNC4
	SE100K-RW00IBNC4
	SE120K-RW08IBNC4
Configuration Single Gland No DC Switch, DC Gland, DC SPD	SE50K-RW00IBNK4 (only PL+UK)
	SE66.6K-RW00IBNK4
	SE90K-RW00IBNK4
	SE100K-RW00IBNK4
	SE120K-RW08IBNK4
Synergy Unit	SESUK-RW00INNN4 (w/o RSD)
	SESUK-RWR0INNN4 (w/ RSD)

- ▄ Fuses: required for 4-string configurations
- ▄ Rapid Shutdown (RSD): Synergy Unit available with and without RSD
- ▄ Delta Grid (Belgium/Norway): Separate PNs

Contact

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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.