# SG3125HV-30 Product Solution



Lecturer: Sungrow Date: 2020/07





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# **Applications**







- High DC/AC Ratio, Large Capacity
- High Efficiency , High yielding
- All-in-one , Low O&M Cost



Strong

**Grid Support** 

- Larger inverter capacity, Less equipment quantity
- Centralized layout, faster schedule
- PV & ESS, Support Grid



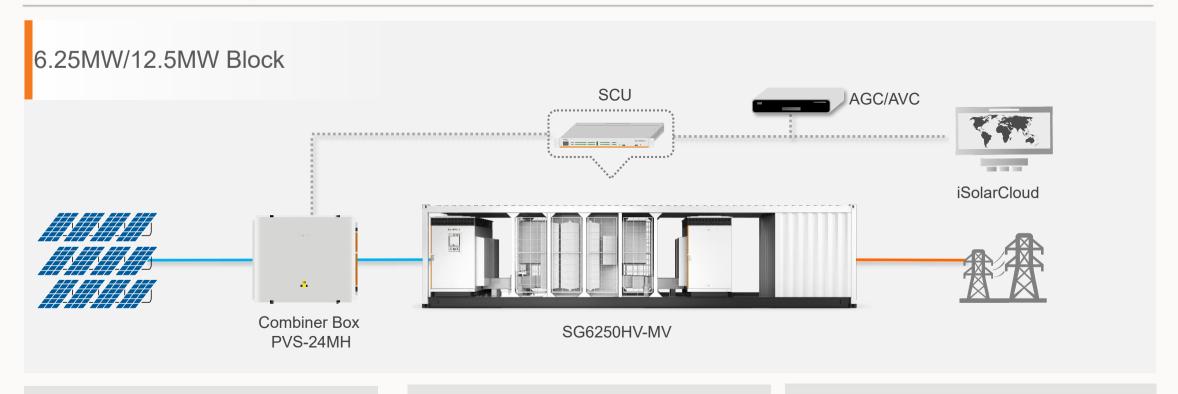
# New Upgrade ,for Lower LCOE and Stronger Grid Support



- Max. Efficiency 99%, Euro. efficiency 98.7%
- DC/AC ratio up to 1.8
- 24h online AC insulation monitoring
- Reactive power response time <30ms</li>
- SCR≥1.2 stable operation in extremely weak grid
- Built-in ESS interface, support PCS operating mode
- Remote upgrade , digital management, easy
   O&M



# SG3125HV-30 System Solution



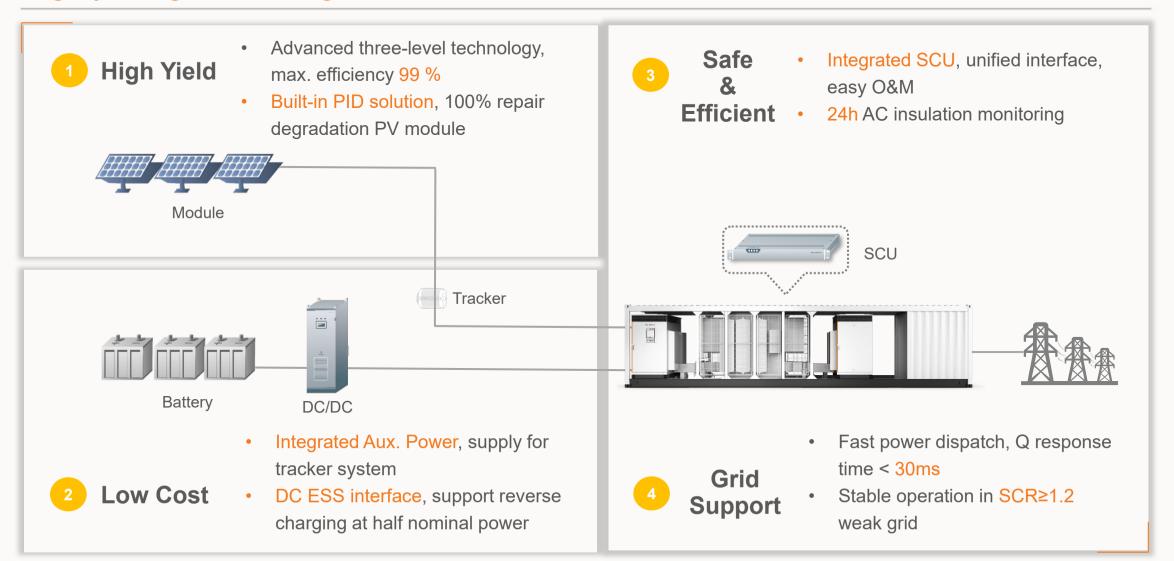
- 15A/string, compatible with bifacial panel
- 24 inputs, positive & negative fuse
- SMC enclosure, C5 & IP67 protection

- All-in-one , highly integrated design
- Max. 48 inputs, DC/AC ratio up to 1.8
- 4 MPPT, independent operation

- Device level management, active O&M
- Unified communication interface, easy O&M
- remote monitoring-iSolarCloud,

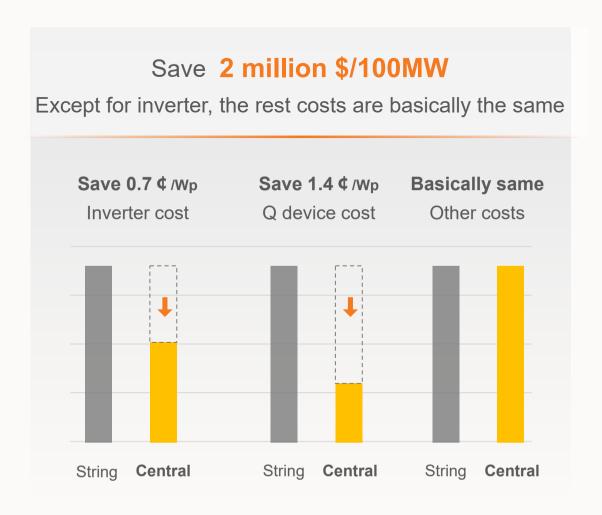


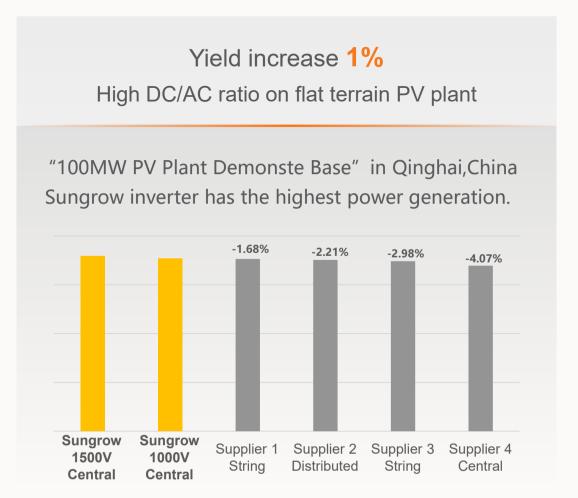
# **Highly Integrated Design**





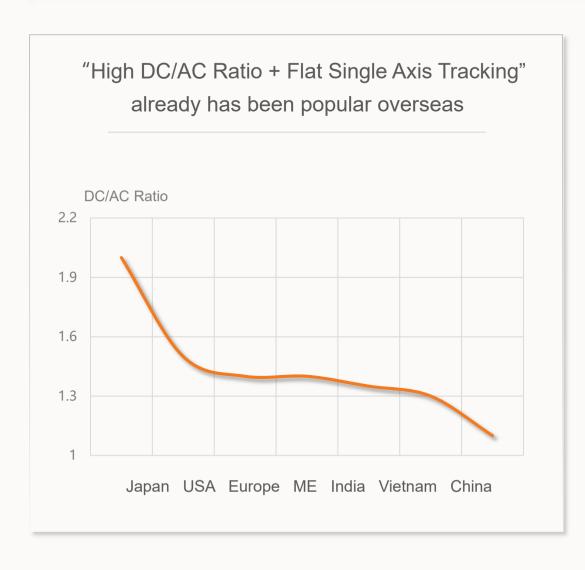
# Save 2 million \$/100MW, Yield Increase 1%

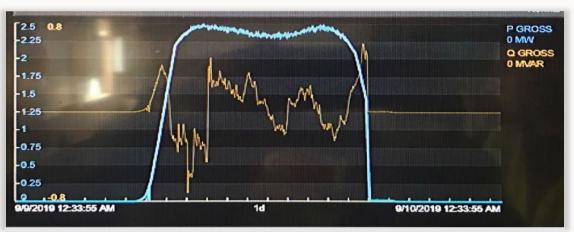




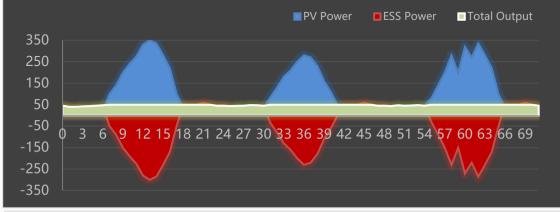


# Support 1.8 DC/AC Ratio, AC Output More Smooth, Easy for Integrating ESS Interface



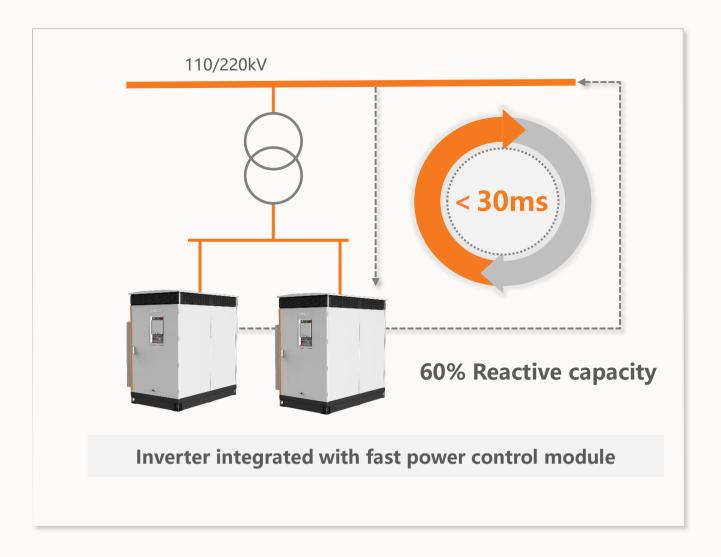


California 205MW PV plant, DC/AC Ratio 1.42, AC output more smooth



Japan 1.1MWh Battery+350kWp Module+50kW Inverter, 24h continuous generate power

# Q at night Function & Fast Power Response, Grid Support



# **Unique**, Verified by Third-part

- Reactive power response time <30ms
- Active power response time <140ms</li>

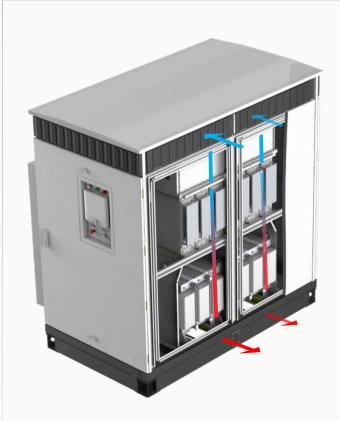
## SCR≥1.2 stable operation

- Precise control algorithm and advanced technology
- Stable operation in extremely weak grid

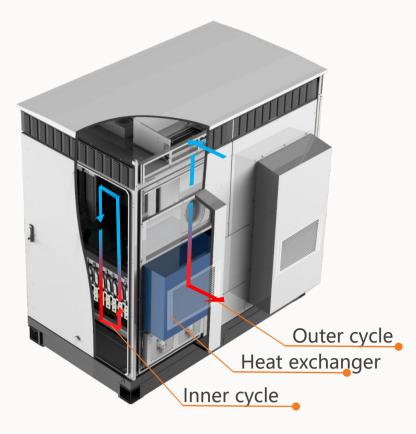
# **Q** at night function

- Integrated Q at night function
- Save Q compensation device cost

# C5 & IP65 Protection, Independent Cabinet for Heat Dissipation



Speed controlled fans for power module cooling



Heat exchanger for electronic components cooling

### Device work in cold area

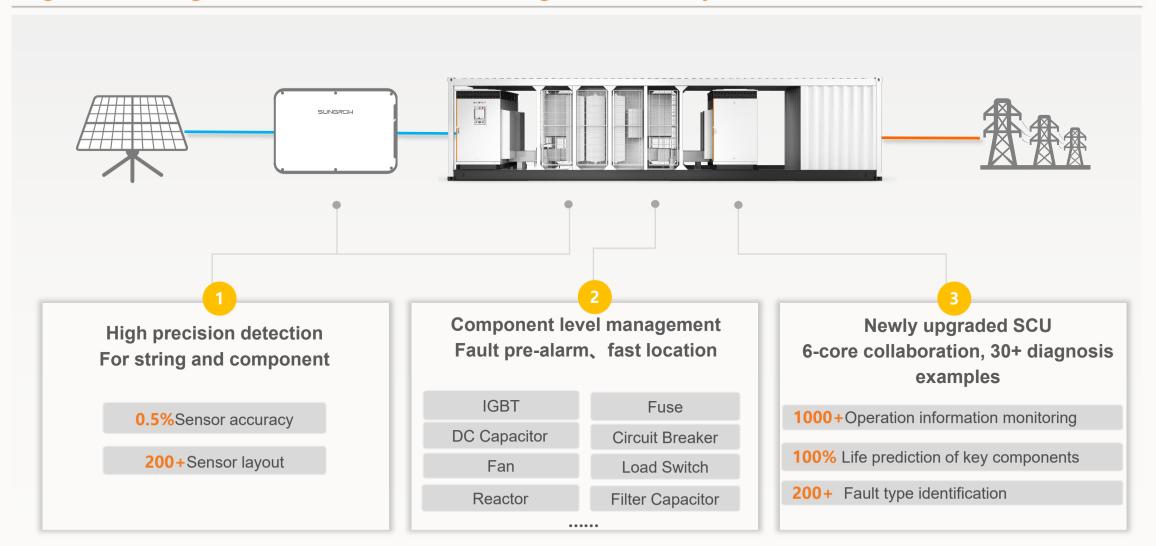
The max. Temp. rise of IGBT and other core components is 45 °C,low temp extend component life.

### IP65 & C5

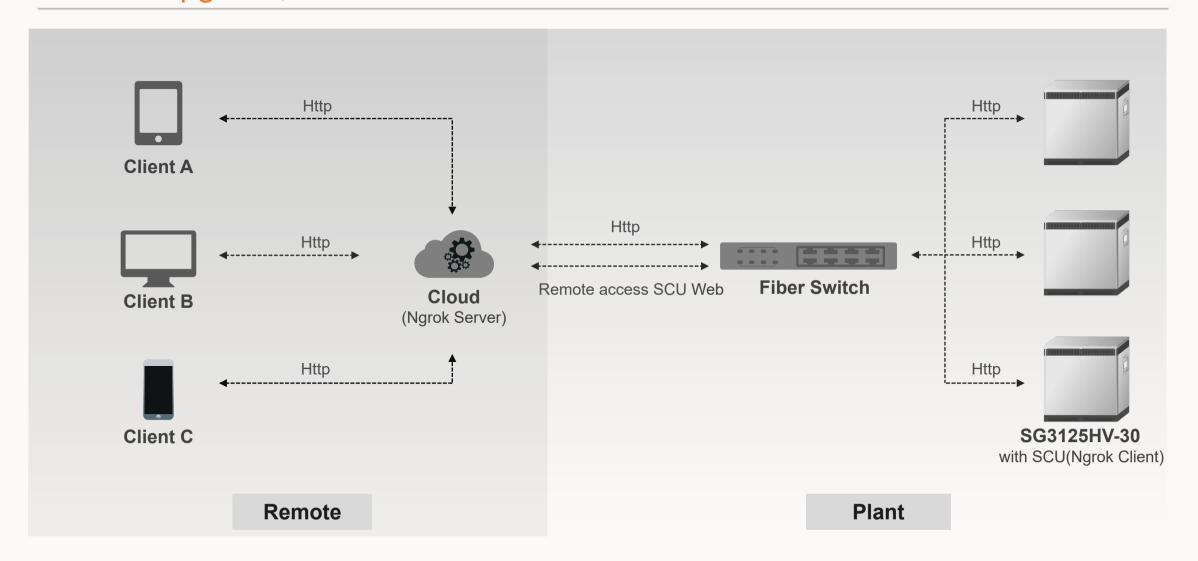
**Case**: hot galvanized steel , painting thickness> 120um

**Fastener**: Q235 carbon steel surface passivation & galvanizing

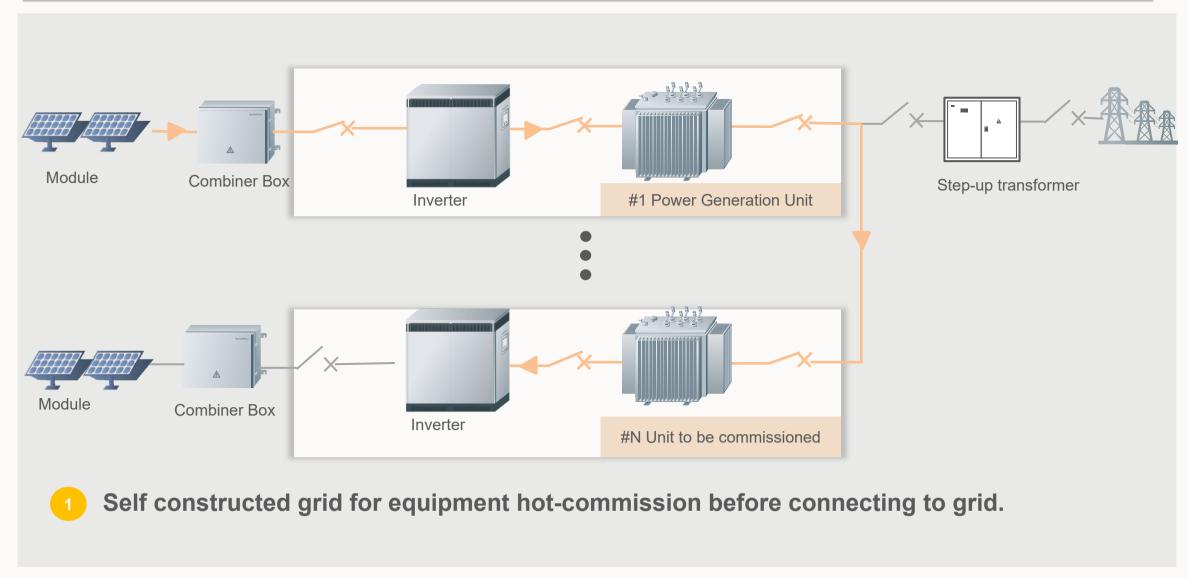
# Digital Management, Active O&M, High Efficiency



# Remote Upgrade, Convenient O&M



# Self-Constructed Grid for Pre-Commission



# Advantages-SG3125HV-30 Series



All-in-one, easy O&M

Advanced 3-level technology, max. inverter efficiency 99%

Max. 24 inputs, DC/AC ratio up to 1.8





Q response time< 30ms, save SVG device cost

Built-in ESS interface, support PCS mode

Stable operation in SCR ≥ 1.2 weak grid

Grid Support

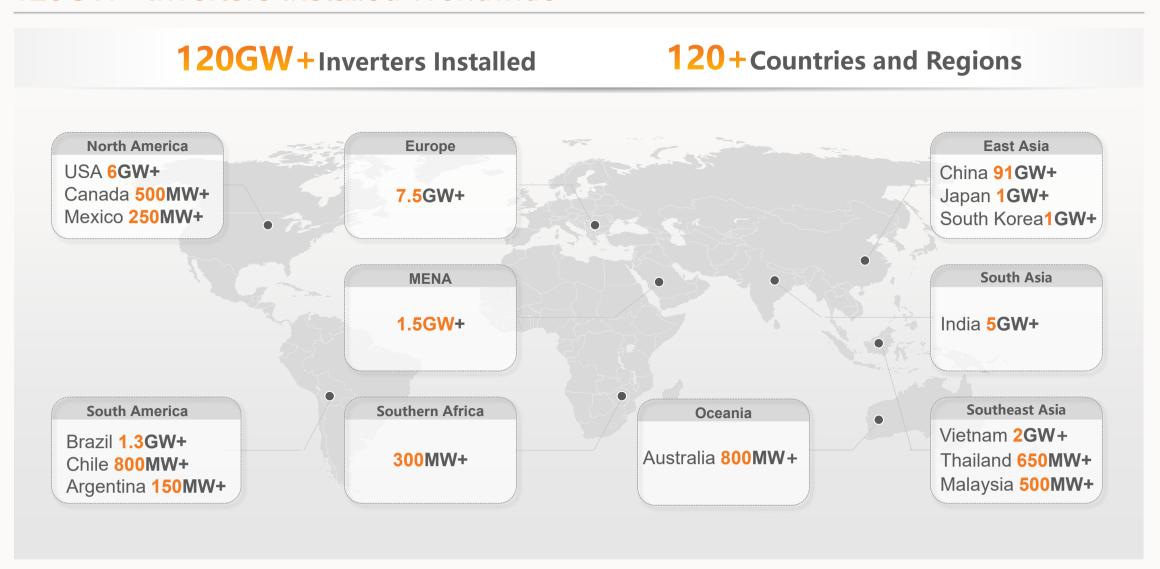


24h online AC insulation monitoring
IP65 protection, C5 anti-corrosion
High efficient heat dissipation, low temperature rise and long component lifetime

Safe & Reliable

Confidential

### 120GW+ Inverters Installed Worldwide





# References List of SG3125HV Series Products

Capacity	Client	Location
201MW	Bouygues	Vietnam
205MW	Sempra Renewable	U.S.A
400MW	Solaria	Spain
131MW	Sterling & Wilson	Vietnam
90MW	Aktor	Brazil
400MW	Softbank	India
250MW	TATA	India
100MW	Azure Power	India
97MW	Guizhou Power Construction	Argentina
130MW	China Power Construction	Belarus
32MW	Engie Fabricom	Belgium



# Typical Domestic Reference of Sungrow Central Inverter









# Typical Overseas Reference of Sungrow Central Inverter









# THANK YOU!