

SUNGROW

Clean power for all

Europe Product Portfolio Q2 2022

Product Portfolio Overview

PRODUCT OVERVIEW: UTILITY-SCALE PV SOLUTIONS

UTILITY (1500V)

CENTRAL INVERTERS



SG3125HV-30



1x MODULAR INVERTER
1.1-8.8MVA

Q3 2022

TURNKEY SOLUTION



SG3125HV-MV-30

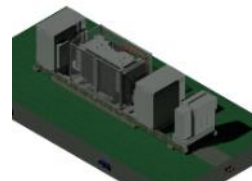


SG6250HV-MV



SG8800UD-MV
SG6600UD-MV
SG4400UD-MV
SG3300UD-MV
SG1100UD-MV

Q3 2022



CPS-6900-30A MV Station
for SG3125HV-30**

STRING INVERTERS

Q3 2022



SG350HX



SG250HX-V117 (30A)
SG250HX-V113 (30A)



SG125HX



SG125HV-20

MV STATIONS FOR STRING INVERTERS



MV Turnkey Station
MVS3200/4480-LV

Q3 2022



MV Turnkey Station
MVS6400-LV

Q3 2022



MV Turnkey Station
MVS8960-LV

Q3 2022



SPS MV Station for
SG250HX**



MV Turnkey Station
MVS6300LV



MV Turnkey Station
MVS3150LV



MV Turnkey Station
MVS6750LV

No SG MVS stations are available for SG125HV-20.

MONITORING



COM100A



EMU200
(350HX)

NEW



Logger3000



Logger4000

PARTNER MONITORING



Power Plant Controller



PRODUCT OVERVIEW: C&I PV SOLUTIONS

C&I (1000V)

3-PHASE STRING INVERTERS – MULTI MPPT – CX SERIES



SG110CX V11

SG110CX V112
(with AFCI and DC SPD
Type I+II)



SG33/40/50CX V112
(with AFCI and DC SPD
Type I+II)

SG30CX (Ukraine only)

3-PHASE STRING INVERTERS – MULTI MPPT



SG3.0-12RT
Natural cooling



SG15.-20RT
Smart forced air cooling

MONITORING



WiNet



EyeM4*

COM100E always includes Logger1000



COM100E



Logger1000



iSolarCloud

* EyeM4 not compatible with RT series



PRODUCT OVERVIEW: RESIDENTIAL PV SOLUTIONS

RESIDENTIAL (600 / 1000 V)

3-PHASE STRING INVERTERS



SG3.0-4.0RT

SG5.0-12RT

3-PHASE HYBRIDS + BATTERY



SH5.0-10RT



SBR096/128/160/192/224/256
(up to 8 modules max)

1-PHASE STRING INVERTERS



SG2.0/2.5/3.0RS-S



SG3.0/3.6/4.0/5.0/6.0RS

1-PHASE HYBRIDS



SH3.0/3.6/4.0/5.0/6.0RS



SBR096/128/160/192
(up to 6 modules max)

MONITORING



WiNet



iSolarCloud



AVAILABILITY: Q3 2022



1.500V THREE PHASE STRING INVERTER SG350HX (MPPT 40A/30A)



PID protection integrated
Fully compatible with
500Wp+ modules



Q@Night
DC 2 in 1 connection



Fuse free design
Smart I/V Scan*
MPLC communication



IP66 and C5
Type II SPD for both
DC and AC.

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* Only in combination with SolarCloud



(Preliminary)

AVAILABILITY: Q3 2022

ELECTRICAL DATA

SG350HX (40A/30A)

| | |
|--------------------------------|---|
| Max. input voltage | 1500 V |
| MPPT voltage range | 500...1500 V |
| No. of MPPTs | 12 (optional 14/16) |
| No. of strings per MPPT | 2 |
| Max. PV input current per MPPT | 40A (optional: 30A for 14/16 MPPTs) |
| AC output power | 352 kVA @30°C 320 kVA @40°C 295 kVA @50°C |
| Nominal grid voltage | 800 V |
| Nominal grid frequency | 50 / 60 Hz |
| Power factor | -0,8 ... +0,8 |
| Max. / European efficiency | 99.0% / 98.8% |

GENERAL DATA

| | |
|------------------------------|---------------------------|
| Dimensions (W × H × D) in mm | 1136 x 870 x 361 |
| Weight | <110 kg |
| Operating temperature range | -30...60°C |
| Cooling concept | Smart forced air cooling |
| Degree of protection | IP66 |
| Relative humidity range | 0...100% |
| Max. operating altitude | 4000 m (>3000 m derating) |
| Communication port/protocols | RS485 / PLC |
| Display | LED, Bluetooth + App |



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VIDEO

[ENG](#) (Intersolar 2021 launch)

[SPA](#) (presentation)

PRELIMINARY DATA





1.500V THREE PHASE STRING INVERTER SG250HX (MPPT 30A)



PID recovery function
Bifacial modules ready



Q@Night
DC 2 in 1 connection



Fuse free design
Smart I/V Scan*
SG250HX V117 with
MPLC communication



IP66 and C5
Type II SPD for both
DC and AC.

V117: available

V113: available

V112: discontinued

PHASED OUT*

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* Only in combination with SolarCloud

ELECTRICAL DATA**SG250HX (30A)**

| | |
|--------------------------------|---------------|
| Max. input voltage | 1500 V |
| MPPT voltage range | 500...1500 V |
| No. of MPPTs | 12 |
| No. of strings | 24 |
| Max. PV input current per MPPT | 30A |
| AC output power | 250 kVA @30°C |
| | 225 kVA @40°C |
| | 200 kVA @50°C |
| Nominal grid voltage | 800 V |
| Nominal grid frequency | 50 / 60 Hz |
| Power factor | -0,8 ... +0,8 |
| Max. / European efficiency | 99.0% / 98.8% |

GENERAL DATA

| | |
|------------------------------|---------------------------|
| Dimensions (W × H × D) in mm | 1051 x 660 x 363 |
| Weight | 99 kg |
| Operating temperature range | -30...60°C |
| Cooling concept | Smart forced air cooling |
| Degree of protection | IP66 |
| Relative humidity range | 0...100% |
| Max. operating altitude | 5000 m (>4000 m derating) |
| Communication port/protocols | RS485 / PLC |
| Display | LED, Bluetooth + App |

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**VIDEO**

[ENG](#) (presentation)

[ENG](#) (how to install)

**MAIN CASE STUDIES**

1MW Alessandria (Italy) | [ENG](#) | [ITA](#)





1500V THREE PHASE STRING INVERTER SG125HX



PID recovery function
Bifacial modules ready



Q@Night
DC 2 in 1 connection



Fuse free design
Smart I/V Scan*
MPLC communication



IP66 and C5
DC type II SPD and
AC type I + II SPD

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ELECTRICAL DATA**SG125HX**

| | |
|--------------------------------|----------------------------------|
| Max. input voltage | 1500 V |
| MPPT voltage range | 500...1500 V |
| No. of MPPTs | 6 |
| No. of strings | 12 |
| Max. PV input current per MPPT | 30A |
| AC output | 125 kVA @40°C 113.6 kVA @50°C |
| Nominal grid voltage | 800 V |
| Nominal grid frequency | 50 / 60 Hz |
| Power factor | -0,8 ... +0,8 |
| Max. / European efficiency | 99.0% / 98.7 % |

GENERAL DATA

| | |
|------------------------------|------------------------------|
| Dimensions (W × H × D) in mm | 799 x 695 x 350 mm |
| Weight | 70 kg |
| Operating temperature range | -35...60°C (> 50°C derating) |
| Cooling concept | Smart forced air cooling |
| Degree of protection | IP66 |
| Relative humidity range | 0...100% |
| Max. operating altitude | 5000 m (>4000 m derating) |
| Communication port/protocols | RS485 / PLC |
| Display | LED, Bluetooth + App |

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**VIDEO**

[ENG](#) (Webinar)



1000V C&I String Inverters

CX INVERTER SERIES

Product versions and availability

| | SG33-40-50CX | | SG110CX | |
|---------------------|---|-----------|---------|-----------|
| | V11 | V112 | V11 | V112 |
| AFCI | No | Yes | No | Yes |
| DC SPD | Type II | Type I+II | Type II | Type I+II |
| AC SPD | Type II | Type II | Type II | Type II |
| Availability | Phase out as soon as stocked is cleared | Yes | Yes | Yes |





1000V THREE PHASE STRING INVERTER SG110CX



PID recovery function
Bifacial modules ready



Q@Night
DC 2 in 1 connection



Fuse free design
Smart I/V Scan*



IP66 and C5
DC Type I+II SPD, AC Type
II SPD standard for V112
AFCI standard for V112

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* Only in combination with SolarCloud



| ELECTRICAL DATA | SG110CX V11 | SG110CX V112 |
|----------------------------|-------------------------|------------------------------|
| Max. input voltage | 1100 V | |
| MPPT voltage range | 200...1000 V | |
| No. of MPPTs | 9 | |
| No. of strings | 18 | |
| AC output power @ 50°C | 100 kVA | |
| AC output power @ 45°C | 110 kVA | |
| Nominal grid voltage | 400 V | |
| Nominal grid frequency | 50 / 60 Hz | |
| Power factor | -0,8 ... +0,8 | |
| Max. / European efficiency | 98.7% / 98.5 % | |
| Surge protection | DC Type II / AC Type II | DC Type I + II / A C Type II |
| AFCI | No | Yes (standard) |

GENERAL DATA

| | | |
|--------------------------------|----------------------------------|--|
| Dimensions (W × H × D) in mm | 1051 x 660 x 362.5 mm | |
| Weight | 85 kg | |
| Operating temperature range | -35...60°C (> 50°C derating) | |
| Cooling concept | Active | |
| Degree of protection | IP66 | |
| Relative humidity range | 0...100% | |
| Max. altitude without derating | 3000 m | |
| Maximum operating altitude | 4000 m | |
| Communication port/protocols | RS485 / Optional: WiFi, Ethernet | |
| Display | LED, Bluetooth + App | |



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VIDEO

[ENG](#) (commercial solutions)

[ENG](#) (installation video)



MAIN CASE STUDIES

4,5MW Piedmont (Italy) | [ENG](#) | [ITA](#)

1,2MW Córdoba (Spain) | [ENG](#) | [SPA](#)

600kW Ingolstadt (Germany) | [ENG](#)





1000V THREE PHASE STRING INVERTER

SG33CX, SG40CX, SG50CX



PID recovery function
Bifacial modules ready



Q@Night
DC 2 in 1 connection



Fuse free design
Smart I/V Scan*



IP66 and C5
DC Type I+II SPD, AC Type
II SPD standard for V112
AFCI standard for V112

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| ELECTRICAL DATA | SG33CX V112 | SG40CX V112 | SG50CX V112 |
|----------------------------|----------------|------------------------------|----------------|
| Max. input voltage | | 1100 V | |
| MPPT voltage range | | 200...1000 V | |
| No. of MPPTs | 3 | 4 | 5 |
| No. of strings | 6 | 8 | 10 |
| AC output power @ 45 °C | 33000 VA | 40000 VA | 50000 VA |
| AC output power @ 40 °C | 36300 VA | 44000 VA | 55000 VA |
| Nominal grid voltage | | 400 V | |
| Nominal grid frequency | | 50 / 60 Hz | |
| Power factor | | -0,8 ... +0,8 | |
| Max. / European efficiency | 98.7% / 98.5 % | | 98.7% / 98.4% |
| Surge protection | | DC Type I + II / A C Type II | |
| AFCI | | Yes (standard) | |

GENERAL DATA

| | | | |
|--------------------------------|----------------------------------|-----------------|-------|
| Dimensions (W × H × D) in mm | 702 x 595 x 310 | 782 x 645 x 310 | |
| Weight | 50 kg | 58 kg | 62 kg |
| Operating temperature range | -30...60°C (> 45°C derating) | | |
| Cooling concept | Active | | |
| Degree of protection | IP66 | | |
| Relative humidity range | 0...100% | | |
| Max. altitude without derating | 3000 m | | |
| Maximum operating altitude | 4000 m | | |
| Communication port/protocols | RS485 / Optional: WiFi, Ethernet | | |
| Display | LED, Bluetooth + App | | |



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VIDEO

[ENG](#) (commercial solutions)

[ENG](#) (installation video SG110CX)



MAIN CASE STUDIES

150kW Città di Castello (Italy) | [ITA](#)





1000V THREE PHASE STRING INVERTER SG5.0-12RT



Compatible with bifacial
modules



Built-in PID recovery function
24 / 7 Live monitoring



18 kg compact design
Unique push-in
connectors
Natural cooling



Quick arc fault circuit
interrupter
Build-in Type II DC & AC SPD
High anti-corrosion rating C5

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ELECTRICAL DATA

| | SG5.0RT | SG6.0RT | SG7.0RT | SG8.0RT | SG10RT | SG12RT |
|-----------------------------|---|------------------|-------------------------|------------------|-------------------------|------------------|
| Max. input voltage | 1100 V | | | | | |
| MPPT voltage range | 160...1000 V | | | | | |
| No. of MPPTs | 2 | | | | | |
| Inputs per MPPT | 1/1 | 1/1 | 2/1 | 2/1 | 2/1 | 2/1 |
| Nominal AC output power | 5000 W | 6000 W | 7000 W | 8000 W | 10000 W | 12000 W |
| Max. AC output appar. power | 5500 VA | 6600 VA | 7700 VA | 88000 VA | 11000 VA | 12000 VA |
| Nominal AC voltage | 3 / N / PE, 220 / 380 V; 230 / 400 V; 240 / 415 V | | | | | |
| Nominal grid frequency | 50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz | | | | | |
| Power factor | >0.99 / 0.8 leading to 0.8 lagging | | | | | |
| Max. / European efficiency | 98.40% / 97.4% | 98.4% / 97.4% | 98.4% / 97.7% | 98.5% / 97.8% | 98.5% / 97.9% | 98.5% / 97.9% |
| Surge protection | DC Type II / AC Type II | | DC Type II / AC Type II | | DC Type II / AC Type II | |
| AFCI | Yes (standard) | | Yes (standard) | | Yes (standard) | |

GENERAL DATA

| | | | | | | |
|--------------------------------|-------------------------------|--|--|--|--|--|
| Dimensions (W × H × D) mm | 370 x 480 x 195 | | | | | |
| Weight | 18 kg | | | | | |
| Operating temperature range | -25...60°C | | | | | |
| Cooling concept | Natural cooling | | | | | |
| Degree of protection | IP65 | | | | | |
| Relative humidity range | 0...100% | | | | | |
| Max. altitude without derating | 2000 m | | | | | |
| Maximum operating altitude | 4000 m | | | | | |
| Communication port/protocols | WLAN, Ethernet, RS485, DI, DO | | | | | |
| Display | LED | | | | | |



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(commissioning)





1000V THREE PHASE STRING INVERTER SG15-20RT



Compatible with bifacial
modules



Built-in PID recovery function
24 / 7 Live monitoring



21 kg compact design
Unique push-in
connectors
Smart forced air cooling



Quick arc fault circuit
interrupter
Build-in Type II DC & AC SPD
High anti-corrosion rating C5

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| ELECTRICAL DATA | SG15RT | SG17RT | SG20RT |
|----------------------------------|---|--------------|----------|
| Max. input voltage | | 1100 V | |
| MPPT voltage range | | 160...1000 V | |
| No. of MPPTs | | 2 | |
| No. of strings | | 4 | |
| Nominal AC power (@230 V, 50 Hz) | 15000 VA | 17000 VA | 20000 VA |
| AC output power @ 40 °C | 16500 VA | 18700 VA | 22000 VA |
| Nominal grid voltage | 3 / N / PE, 220 / 380 V; 230 / 400 V; 240 / 415 V | | |
| Nominal grid frequency | 50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz | | |
| Power factor | >0.99 / 0.8 leading to 0.8 lagging | | |
| Max. / European efficiency | 98.5% / 98.1 % | | |
| Surge protection | DC Type II / AC Type II | | |
| AFCI | Yes (standard) | | |

GENERAL DATA

| | |
|--------------------------------|-------------------------------|
| Dimensions (W × H × D) in mm | 370 x 480 x 195 |
| Weight | 21 kg |
| Operating temperature range | -30...60°C |
| Cooling concept | Smart forced air cooling |
| Degree of protection | IP65 |
| Relative humidity range | 0...100% |
| Max. altitude without derating | 2000 m |
| Maximum operating altitude | 4000 m |
| Communication port/protocols | WLAN, Ethernet, RS485, DI, DO |
| Display | LED |



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 (commissioning)



Residential String Inverters



600V ONE PHASE STRING INVERTER

SG2.0/2.5/3.0RS-S

SG3.0/3.6/4.0/5.0/6.0RS



Compatible with high power PV modules and bifacial modules



Plug and play installation
Lightweight and compact



Real time data
Online IV curve scan and diagnosis
Free online monitoring



Lockable switch
Integrated AFCI (optional)
Anti-corrosion rating at C5

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| ELECTRICAL DATA | SG2.0RS-S | SG2.5RS-S | SG3.0RS-S |
|-------------------------------|--------------------|--------------------|--------------------|
| Max. PV input volt. | | 600 | |
| No. of MPPTs | 1 | 1 | 1 |
| No. of strings per MPPT | 1 | 1 | 1 |
| MPP range | | 40 – 560 V | |
| Max. current per connector | | 16 A | |
| Max. DC short-circuit current | | 20 A | |
| Nominal AC voltage | | 230 V | |
| Max. AC power (PF=1) | 2000 VA | 2500 VA | 3000 VA |
| Peak / Euro efficiency | 98.2 % / 97.2 % | 98.2 % / 97.5 % | 98.2 % / 97.7 % |

GENERAL DATA

| | |
|----------------------|-------------------------------------|
| Display | LED digital display & LED indicator |
| Communication | WLAN, Ethernet, RS485, DI |
| Cooling method | Natural cooling |
| Degree of protection | IP65 |
| DC terminal | MC4 |
| SPD | DC Type II / AC Type II |
| Dimensions (W*H*D) | 320*225*123 mm |
| Weight | 6 kg |



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(installation)

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(commissioning)



ELECTRICAL DATA

| | SG3.0RS | SG3.6RS | SG4.0RS | SG5.0RS | SG6.0RS |
|-------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Max. PV input volt. | 600 V | | | | |
| No. of MPPTs | 2 | 2 | 2 | 2 | 2 |
| No. of strings per MPPT | 1 | 1 | 1 | 1 | 1 |
| MPP range | 40 V – 560 V | | | | |
| Max. current per connector | 32 A (16 A / 16 A) | | | | |
| Max. DC short-circuit current | 40 A (20 A / 20 A) | | | | |
| Nominal AC voltage | 230 V | | | | |
| Max. AC power (PF=1) | 3000 VA | 4000 VA | 4000 VA | 5000 VA | 6000 VA |
| Peak / Euro efficiency | 98.4 % / 97.7 % | 98.4 % / 97.7 % | 98.4 % / 98.0 % | 98.4 % / 98.0 % | 98.4 % / 98.0 % |

GENERAL DATA

| | |
|----------------------|-------------------------------------|
| Display | LED digital display & LED indicator |
| Communication | WLAN, Ethernet, RS485, DI |
| Cooling method | Natural cooling |
| Degree of protection | IP65 |
| DC terminal | MC4 |
| SPD | Type II |
| Dimensions (W*H*D) | 410*270*149 mm |
| Weight | 10 kg |



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(installation)

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(commissioning)





1000V THREE PHASE STRING INVERTER SG3.0-4.0RT



Compatible with bifacial
modules



Built-in PID recovery function
24 / 7 Live monitoring



18 kg compact design
Unique push-in
connectors
Natural cooling



Quick arc fault circuit
interrupter
Build-in Type II DC & AC SPD
High anti-corrosion rating C5

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ELECTRICAL DATA

| | SG3.0RT | SG4.0RT |
|-----------------------------|---|---------------|
| Max. input voltage | 1100 V | |
| MPPT voltage range | 160...1000 V | |
| No. of MPPTs | 2 | |
| Inputs per MPPT | 1/1 | 1/1 |
| Nominal AC output power | 3000 W | 4000 W |
| Max. AC output appar. power | 3300 VA | 4400 VA |
| Nominal AC voltage | 3 / N / PE, 220 / 380 V; 230 / 400 V; 240 / 415 V | |
| Nominal grid frequency | 50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz | |
| Power factor | >0.99 / 0.8 leading to 0.8 lagging | |
| Max. / European efficiency | 98.2% / 96.5% | 98.2% / 97.0% |
| Surge protection | DC Type II / AC Type II | |
| AFCI | Yes (standard) | |

GENERAL DATA

| | |
|--------------------------------|-------------------------------|
| Dimensions (W × H × D) mm | 370 x 480 x 195 |
| Weight | 18 kg |
| Operating temperature range | -25...60°C |
| Cooling concept | Natural cooling |
| Degree of protection | IP65 |
| Relative humidity range | 0...100% |
| Max. altitude without derating | 2000 m |
| Maximum operating altitude | 4000 m |
| Communication port/protocols | WLAN, Ethernet, RS485, DI, DO |
| Display | LED |

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(commissioning)





1000V THREE PHASE STRING INVERTER SG5.0-12RT



Compatible with bifacial
modules



Built-in PID recovery function
24 / 7 Live monitoring



18 kg compact design
Unique push-in
connectors
Natural cooling



Quick arc fault circuit
interrupter
Build-in Type II DC & AC SPD
High anti-corrosion rating C5

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ELECTRICAL DATA

| | SG5.0RT | SG6.0RT | SG7.0RT | SG8.0RT | SG10RT | SG12RT |
|-----------------------------|---|------------------|-------------------------|------------------|-------------------------|------------------|
| Max. input voltage | 1100 V | | | | | |
| MPPT voltage range | 160...1000 V | | | | | |
| No. of MPPTs | 2 | | | | | |
| Inputs per MPPT | 1/1 | 1/1 | 2/1 | 2/1 | 2/1 | 2/1 |
| Nominal AC output power | 5000 W | 6000 W | 7000 W | 8000 W | 10000 W | 12000 W |
| Max. AC output appar. power | 5500 VA | 6600 VA | 7700 VA | 88000 VA | 11000 VA | 12000 VA |
| Nominal AC voltage | 3 / N / PE, 220 / 380 V; 230 / 400 V; 240 / 415 V | | | | | |
| Nominal grid frequency | 50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz | | | | | |
| Power factor | >0.99 / 0.8 leading to 0.8 lagging | | | | | |
| Max. / European efficiency | 98.40% / 97.4% | 98.4% / 97.4% | 98.4% / 97.7% | 98.5% / 97.8% | 98.5% / 97.9% | 98.5% / 97.9% |
| Surge protection | DC Type II / AC Type II | | DC Type II / AC Type II | | DC Type II / AC Type II | |
| AFCI | Yes (standard) | | Yes (standard) | | Yes (standard) | |

GENERAL DATA

| | | | | | | |
|--------------------------------|-------------------------------|--|--|--|--|--|
| Dimensions (W × H × D) mm | 370 x 480 x 195 | | | | | |
| Weight | 18 kg | | | | | |
| Operating temperature range | -25...60°C | | | | | |
| Cooling concept | Natural cooling | | | | | |
| Degree of protection | IP65 | | | | | |
| Relative humidity range | 0...100% | | | | | |
| Max. altitude without derating | 2000 m | | | | | |
| Maximum operating altitude | 4000 m | | | | | |
| Communication port/protocols | WLAN, Ethernet, RS485, DI, DO | | | | | |
| Display | LED | | | | | |



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(commissioning)





600V ONE PHASE STRING HYBRID INVERTER

SH3.0RS | SH3.6RS | SH4.0RS
SH5.0RS | SH6.0RS



2 MPP Trackers
1 String per MPPT



80~460 V wide battery
voltage range
Built-in smart PID recovery



Seamless transition to
backup mode
Optional WiFi and
Ethernet



Real time data (10 s)
Online IV curve scan
Sealed housing, IP65
Anti-corrosion rating at C5

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ELECTRICAL DATA SH3.0RS SH3.6RS SH4.0RS SH5.0RS SH6.0RS

| | | | | | |
|----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Max. PV input volt. | 600 V | | | | |
| No. of MPPTs | 2 | | | | |
| No. of strings | 1 | | | | |
| Max. current per connector | 32 A (16 A /16 A) | | | | |
| MPP range | 40 V – 560 V | | | | |
| Max. DC/AC ratio | 1.5 | | | | |
| Nominal AC voltage | 230 V | | | | |
| Max. AC power (PF=1) | 3000 VA | 3680 VA | 4000 VA | 5000 VA | 6000 VA |
| Peak / Euro efficiency | 97.4 % / 97.0 % | 97.5 % / 97.1 % | 97.6 % / 97.2 % | 97.7 % / 97.3 % | 97.7 % / 97.3 % |

BATTERY

| | |
|-----------------|----------------|
| Battery type | Li-ion battery |
| Battery voltage | 80 V – 460 V |

GENERAL DATA

| | |
|----------------------|------------------------------|
| Display | LED + LCD + APP |
| Communication | Wi-Fi / Ethernet / RS485 |
| Degree of protection | IP65 |
| DC terminal | MC4 (PV) / Sunclix (Battery) |
| AC SPD | Type II |
| Weight | 18.5 kg |



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VIDEO

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RESIDENTIAL HYBRID THREE PHASE INVERTER SH5.0/6.0/8.0/10RT



2 MPP TRACKER
1 / 1 string for 4 - 8 kVA,
1 / 2 strings for 10 kVA



HV storage compatible
BYD, Pylontech, BMZ



Separate external
battery connector



Seamless transition to
backup mode

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ELECTRICAL DATA

| | SH5.0RT | SH6.0RT | SH8.0RT | SH10RT |
|-----------------------------|---|---------------|---------------|---------------|
| Max. input voltage | 1000 V | | | |
| MPPT voltage range | 150...950 V | 200...950 V | 200...950 V | 200...950 V |
| No. of MPPTs | 2 | 2 | 2 | 2 |
| Inputs per MPPT | 1/1 | 1/1 | 1/1 | 1/2 |
| Nominal AC output power | 5000 W | 6000 W | 8000 W | 10000 W |
| Max. AC output appar. power | 5000 VA | 6000 VA | 8000 VA | 10000 VA |
| Nominal AC voltage | 3 / N / PE, 220 / 380 V; 230 / 400 V; 240 / 415 V | | | |
| Nominal grid frequency | 50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz | | | |
| Power factor | >0.99 / 0.8 leading to 0.8 lagging | | | |
| Max. / European efficiency | 98.0% / 97.2% | 98.2% / 97.5% | 98.4% / 97.9% | 98.4% / 97.9% |

GENERAL DATA

| | | | | |
|--------------------------------|--|--|--|--|
| Dimensions (W × H × D) in mm | 460 x 540 x 170 | | | |
| Weight | 27 kg | | | |
| Operating temperature range | -25...60°C | | | |
| Cooling concept | Natural convection | | | |
| Degree of protection | IP65 | | | |
| Relative humidity range | 0...100% | | | |
| Max. altitude without derating | 3000 m | | | |
| Maximum operating altitude | 4000 m | | | |
| Communication port/protocols | RS485, WLAN, Ethernet, CAN, 4×DI, 1×DO | | | |
| Display | LED, Bluetooth + App | | | |

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(installation)

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(3-phase solution, battery installation)





High Voltage LFP Battery

SBR096/128/160/192/224/256



100% usable energy
30 A continuous
charge/discharge current



Support 3–8 modules
per unit, max. 4 units in
parallel



Single person installation
Wiring-less connection
between modules



Lithium iron phosphate
battery
Multi-stages protection
design

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ELECTRICAL

| DATA | SBR096 | SBR128 | SBR160 | SBR192 | SBR224 | SBR256 |
|---|------------------------|-------------|-------------|-------------|-------------|-------------|
| Battery type | LiFePO4 Prismatic Cell | | | | | |
| Battery Module | 3.2 kWh, 33 kg | | | | | |
| Nominal capacity | 9.6 kWh | 12.8 kWh | 16 kWh | 19.2 kWh | 22.4 kWh | 25.6 kWh |
| Nominal voltage | 192 V | 256 V | 320 V | 384 V | 448 V | 512 V |
| Operatin voltage | 150 – 219 V | 200 – 292 V | 250 – 365 V | 300 – 438 V | 350 – 511 V | 400 – 584 V |
| Max. charging/discharging current: continuous | 30 A | | | | | |
| Max. charging/discharging current: 10s pulse | 42 A | | | | | |
| Depth of Discharge | 100% | | | | | |
| Short circuit current | 1700 A | | | | | |

GENERAL DATA

| Module numbers | 3 | 4 | 5 | 6 | 7 | 8 |
|-----------------------------|--|----------------|----------------|----------------|-----------------|-----------------|
| Dimensions (W × H × D) | 625*545*330 mm | 625*675*330 mm | 625*805*330 mm | 625*935*330 mm | 625*1065*330 mm | 625*1195*330 mm |
| Weight | 114 kg | 147 kg | 180 kg | 213 kg | 246 kg | 279 kg |
| Operating temperature range | Charge: 0 to 50 °C / Discharge: -30 to 50 °C | | | | | |
| Cooling concept | Natural convection | | | | | |
| Degree of protection | IP55 | | | | | |
| Relative humidity range | 0% to 95% (non-condensing) | | | | | |
| Installation location | Indoor / Outdoor | | | | | |
| Maximum operating altitude | 2000 m | | | | | |
| Communication interface | CAN | | | | | |
| Display | SOC indicator, status indicator | | | | | |



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(3-phase solution, battery installation)

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(1-phase solution, battery installation)



Monitoring

SUNGROW MONITORING PRODUCTS FOR RS, RT AND CX INVERTER SERIES



WINET-S



EYEM4*



COM100E*



LOGGER1000*

COM100E always includes Logger1000

| | WINET-S | EYEM4* | COM100E* | LOGGER1000* |
|--|---------|--------|----------|-------------|
| Supported device number | 1 | 10 | 30 | 30 |
| Automatic device search and assign addresses | ■ | ■ | ■ | ■ |
| Automatic connect cloud by scanning QR code | ■ | ■ | ■ | ■ |
| O&M remotely / locally | ■ | ■ | ■ | ■ |
| Inverter parameter setting | ■ | ■ | ■ | ■ |
| Inverter firmware updating | ■ | ■ | ■ | ■ |
| Built-in WEB pages | ■ | ■ | ■ | ■ |
| Third party extension | | | | ■ |
| Power control | | | ■ | ■ |
| Virtual Meteo stations | | | ■ | ■ |
| Remote Web operation | | | ■ | ■ |



WINET-S | LAN+WIFI COMMUNICATION MODULE



Automatic network configuration with DHCP



WLAN or Ethernet, flexible compatibility
Remote maintenance



IP65
Support of Smart IV Curve Diagnosis*



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TECHNICAL DATA

E-NET

| | |
|-------------------------|---|
| Supported device number | 1 |
| Display | LED x 3 |
| WLAN communication | 802.11 b/g IEEE802.11n HT20@2.4GHz IEEE802.11n HT40@2.4GHz 2.4 GHz |
| Internet communication | Channel x 1, 10/100Mbps self-adaption |
| Operating temperature | -30 °C to 60 °C |
| Power consumption | < 5 W |
| Dimensions (W * H * D) | 48 mm * 132 mm * 36 mm |
| Installation | Plug and Play |



EYEM4 | COMMUNICATION MODULE



Supporting
mainstream WLAN
networking
protocols



Plug&Play
Remote
maintenance



IP65
high quality signal



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TECHNICAL DATA

EYEM4

| | |
|-------------------------|--|
| Supported device number | 10 |
| Display | LED x 3 |
| Configuration | APP |
| RS485 | 1 port |
| WLAN | 802.11 b/g/n/ac HT20/40/80 MHz 2.4 GHz / 5 GHz |
| Operating temperature | -25 °C to 60 °C |
| Power consumption | < 4 W |
| Dimensions (W * H * D) | 48 mm * 130 mm * 36 mm |
| Installation | Plug-in type |



COM100E | SMART COMMUNICATION BOX



Support of energy meter, meteo station, sensors and other equipment



PV-Plant maintenance via remote Web access
Local monitoring



Robust enclosure, easy to install



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TECHNICAL DATA

COM100E

| | |
|-------------------------|---|
| Supported device number | 30 |
| Digital input | 5, Max. 24 VDC |
| Ethernet | 1 * RJ45, 10 / 100 / 1000 Mbps |
| RS485 | 3 port |
| Analog input | 4, support 4 ~ 20 mA or 0~10 VDC |
| WLAN | 802.11 b / g / n / ac HT20 / 40 / 80 MHz 2.4GHz / 5GHz |
| Operating temperature | -30 °C to 60 °C |
| Power consumption | Typ. 20 W, Max. 30 W |
| Dimensions (W * H * D) | 460 mm * 315 mm * 126 mm |
| Installation | Wall mounted, outdoor and indoor |



LOGGER1000 | SMART COMMUNICATION BOX



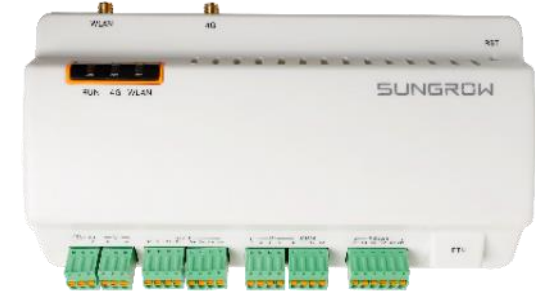
Support of energy meter, meteo station, sensors and other equipment



PV-Plant maintenance via remote Web access
Local monitoring



Built-in Web server for monitoring and configuration



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TECHNICAL DATA

LOGGER1000

| | |
|-------------------------|---|
| Supported device number | 30 |
| Digital input | 5, Max. 24 VDC |
| Ethernet | 1 * RJ45, 10 / 100 / 1000 Mbps |
| RS485 | 3 port |
| Analog input | 4, support 4 ~ 20 mA or 0~10 VDC |
| WLAN | 802.11 b / g / n / ac HT20 / 40 / 80 MHz 2.4GHz / 5GHz |
| Operating temperature | -30 °C to 60 °C |
| Power consumption | < 10W |
| Dimensions (W * H * D) | 200 mm × 110 mm × 60 mm |
| Installation | Top-hat rail mounting / wall mounting |





iSolarCloud

iSolarCloud APP



Flexible data access,
Web portal and App,
remote or local
maintenance
Share plants with
coworkers and friends



Scan QR to create
plant or get support
Parameter setting,
firmware updates,
automated data
reports

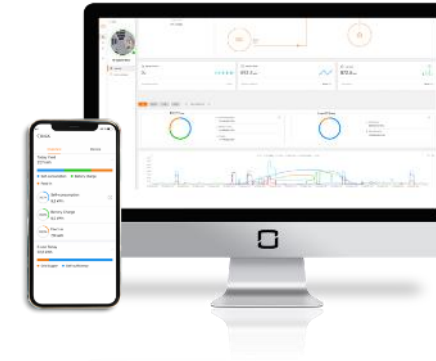


Hierarchical access
management
Cyber security and
redundant data
storage over
the lifecycle of plants,
certified data security

TECHNICAL DATA

iSolarCloud

| | |
|---------------------|--|
| Device type | Inverter, combiner box, meteo station, energy meter, transformer and other plant devices |
| Monitoring Capacity | More than 100 GW (scalable) |
| Time interval | 5 minutes |
| Language | Chinese, English, Japanese, German, French, Spanish, Portuguese, Italian, Dutch, Korean |
| Data storage time | >25 years |
| Storage capability | >100PB |
| Browser | IE11, Chrome 56, Safari 11 |
| Minimum OS | Android 4.4, iOS 9.3 |



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LOGGER3000 | SMART COMMUNICATION BOX



Automatically
Modbus addresses
Remote parameter
setting



Intelligent
communication and
control of the data
collection



Built-in anti-surge
protection for
communication
ports



TECHNICAL DATA

LOGGER3000

| | |
|-------------------------|--|
| Supported device number | 200 |
| Digital input | 16, Max. 24V DC |
| Ethernet | 2 * RJ45, 10 / 100 / 1000 Mbps |
| RS485 | 6 port |
| Analog input | AI 1-AI 2 support 4~20 mA or 0~10 VDC AI 3-AI 4 support 0~100mV |
| Digital outputs | 4 |
| Operating temperature | -30 °C to 60 °C |
| Power consumption | Typ.8 W, Max 15 W |
| Dimensions (W * H * D) | 400 mm × 44 mm × 241 mm |
| Installation | Rack-mounted, Wall mounting |



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LOGGER4000 | SMART COMMUNICATION BOX



Automatically
Modbus addresses
Remote parameter
setting



Intelligent
communication and
control of the data
collection



Built-in anti-surge
protection for
communication
ports



TECHNICAL DATA

LOGGER4000

| | |
|-------------------------|---|
| Supported device number | 300 |
| Digital input | 16, Max. 24V DC |
| Ethernet | 2 * RJ45, 10 / 100 / 1000 Mbps |
| RS485 | 7 port |
| Analog input | 4 (1 Analog Input: 0 – 10 Vdc, 3 Analog Input: 4 – 20 mA) |
| Digital outputs | 4 |
| Operating temperature | -30 °C to 60 °C |
| Power consumption | Typ. 18 W, max. 30 W |
| Dimensions (W * H * D) | 440*44*224 mm |
| Installation | Rack-mounted, Wall mounting |



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COM100A (SG250HX) | SMART COMMUNICATION BOX



Flexible installation with wall-mounted, column-mounted and floor-standing method



Seamless connection to iSolarCloud



Electrical isolation and lightning protection equipped for each terminals



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TECHNICAL DATA

COM100A

| | |
|-------------------------|---|
| Supported device number | 200 |
| Fiber Switch | 2 Fiber ports and 6 Ethernet ports |
| Fiber Splice Box | 2-input and 12-output |
| Operating temperature | -30 °C to 60 °C |
| Power consumption | Typ. 20 W, Max. 30 W |
| Dimensions (W * H * D) | 570 mm * 790 mm * 190 mm |
| Weight | 32 kg |
| Installation | Wall mounting, pole mounting, ground mounting |



EMU200A (SG350HX) | ENERGY MANAGEMENT UNIT



Support of RS485, Ethernet and MPLC communication, support of tracker, meteo-station & sensors



Convenient O&M



Safe and Reliable

TECHNICAL DATA

EMU200A (MPLC / RS485 / Ethernet)

| | |
|-------------------------|---|
| Supported device number | 300 |
| Fiber Switch | 2 Fiber ports and 6 Ethernet ports |
| Fiber Splice Box | 4-input and 24-output SC single mode |
| Operating temperature | -30 °C to 60 °C |
| Power consumption | Max. 900 W |
| Dimensions (W * H * D) | 860 mm * 680 mm * 275 mm |
| Weight | 32 kg |
| Installation | Wall hanging, rack mounting, pole mounting or ground mounting, outdoor and indoor metal |

AVAILABILITY: Q3 2022



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Coming soon



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