RESIDENTIAL PV/ESS PLANT

SYSTEM SOLUTIONS

SUNGROW
Clean power for all

2022 / 2023

ABOUT SUNGROW

Sungrow Power Supply Co., Ltd. ("Sungrow") is the world's most bankable inverter brand with over 224 GW installed worldwide as of 2021. Founded in 1997 by University Professor Cao Renxian, Sungrow is a leader in the research and development of solar inverters with the largest dedicated R&D team in the industry and a broad product portfolio offering PV inverter solutions and energy storage systems for utility-scale, commercial & industrial, and residential applications, as well as internationally recognized floating PV plant solutions, NEV driving solutions, EV charging station solutions. With a strong 25-year track record in the PV space, Sungrow products power installations in over 150 countries.

As a leader of innovation in the solar industry, Sungrow possesses a dynamic technical R&D team which consists of over 2600 employees. The Company has also invested its own in-house testing center approved by SGS, CSA, and TÜV Rheinland. In 2019, Sungrow launched the world's largest inverter factory. The company's global annual production capacity reaches 140 GW, including 20 GW of overseas production.

Offering a wide range of solutions and services, Sungrow is committed to providing clean power for all and is steadfast in its efforts to becoming the global leader of clean power conversion technology. Learn more about Sungrow by visiting www.sungrowpower.com.

The World's Most Bankable Inverter Brand

No.1 bankable for 3 consecutive years
No.1 supplier in financed projects

Source: BloombergNEF

25
Years in the Solar Industry

3600+
Patent Applications

NO.1
Largest PV Inverter R&D Team

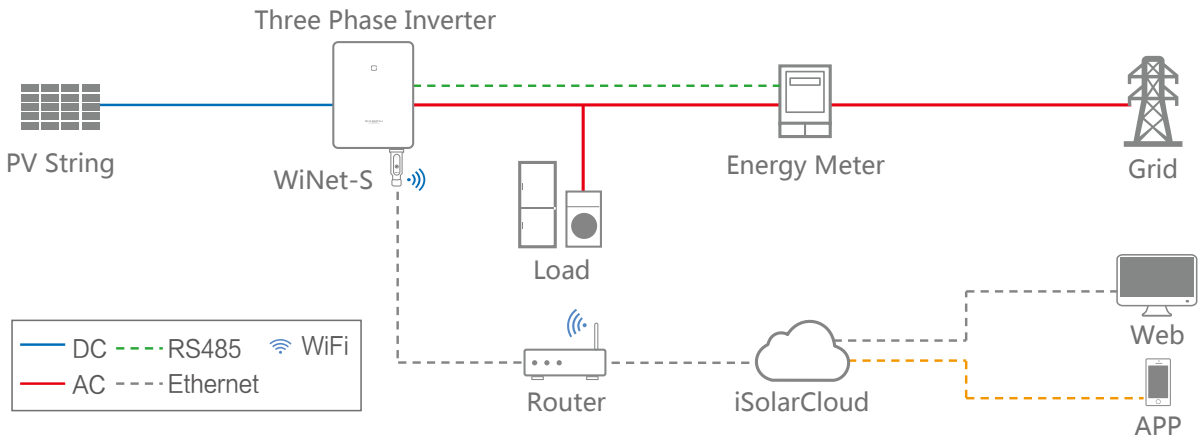
224GW+
Deployed Worldwide

140GW / Year
Global Production Capacity

150+
Countries with Sungrow Installations

Residential PV Plant System Solution

Solar System for Your Home



Recommend Products

Single Phase

SG2K/2K5/3K-S
SG3K/5K/8K-D
Premium

Single Phase

SG2.0RS-S

Single Phase

SG3.0/5.0/8.0/10RS
SG5.0RS-ADA

Three Phase

SG5.0 – 20RT

WiNet-S

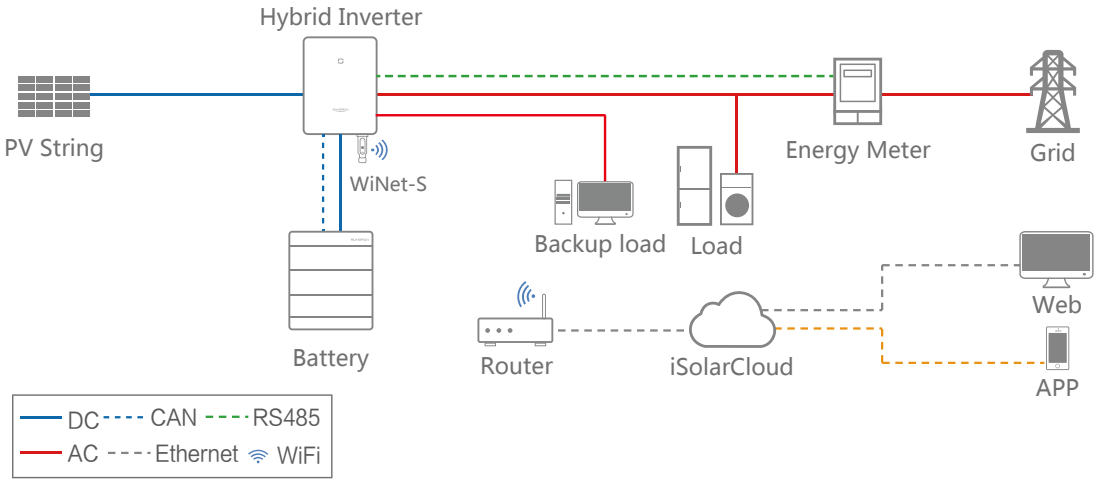
iSolarCloud

Single-phase
meter

Three-phase
meter

Residential Energy Storage System Solution

Solar Batteries for Your Home

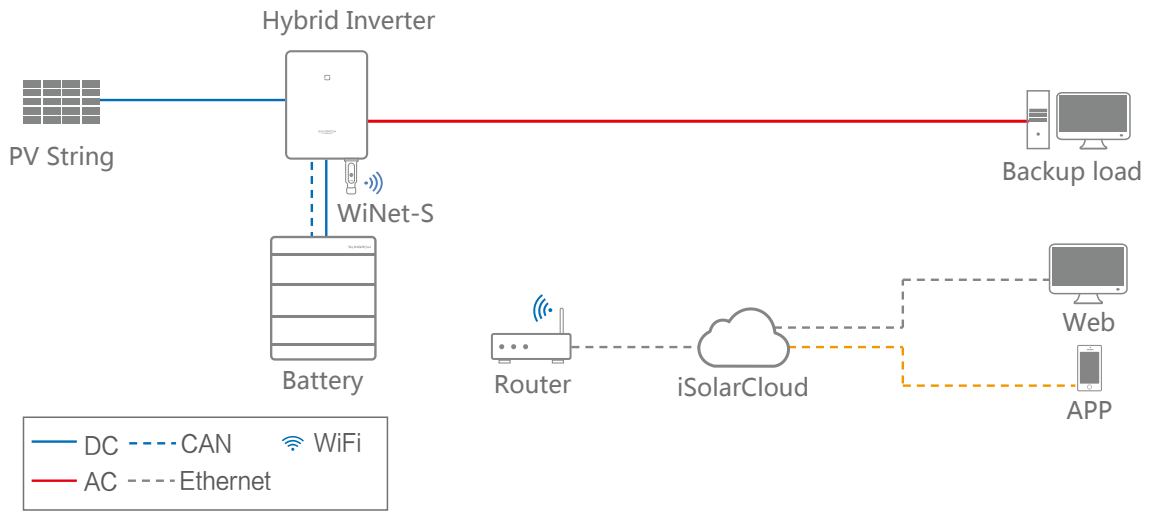


Recommend Products

Single Phase	Single Phase	Three Phase					
SH5K-30	SH5.0/6.0RS	SH5.0/10RT	SBR096 – 256	WiNet-S	iSolarCloud	Single-phase meter	Three-phase meter

Residential Energy Storage System Solution

Off-grid solution



Recommend Products

Single Phase

SH5K-30

Single Phase

SH5.0/6.0RS

Three Phase

SH5.0/10RT

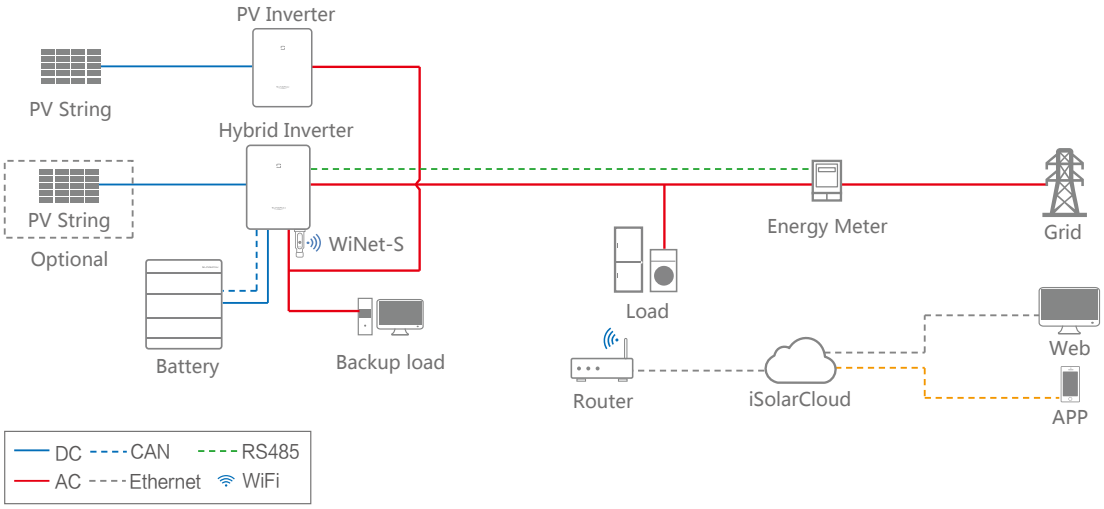
SBR096–256

WiNet-S

iSolarCloud

Residential Energy Storage System Solution

Retrofitting Solution



Recommend Products

SH5K-30 | SH5.0/6.0RS | SH5.0/10RT | SBR096-256 | WiNet-S | iSolarCloud | Single-phase meter | Three-phase meter

SG2K-S/SG2K5-S/SG3K-S

Residential Single Phase Inverter

Premium

HIGH YIELD

- Higher yield with Max. efficiency 98.2 %, European efficiency 97.7 %
- 12.5 A MPPT current, and compatible with bifacial modules
- Flexible PV string configurations, DC/AC ratio up to 1.4

SMART MANAGEMENT

- 24H real-time loads monitoring
- Easy local and online monitoring via App or Web

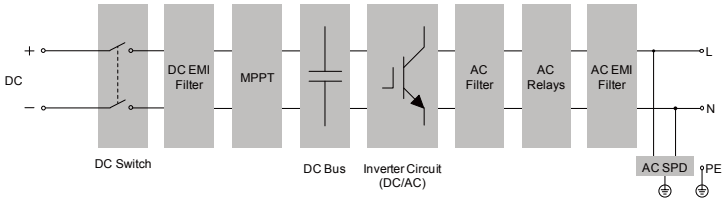
SAFE AND DURABLE

- Quick Arc Fault Circuit Interrupter
- Built-in Type II DC&AC surge protection device
- Built-in certified PV isolator

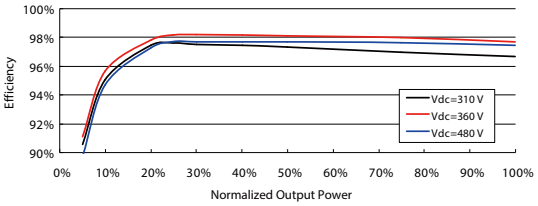
EASY AND USER FRIENDLY

- 8.5 kg compact design, plug and play installation
- Fast commissioning via App

CIRCUIT DIAGRAM



EFFICIENCY CURVE



Type designation	SG2K-S	SG2K5-S	SG3K-S
Input (DC)			
Max. PV input voltage		600 V	
Min. PV input voltage / Startup voltage		90 V / 120 V	
Nominal input voltage		360 V	
MPP voltage range		90 V – 560 V	
MPP voltage range for nominal power	210 V – 480 V	260 V – 480 V	310 V – 480 V
No. of MPPTs		1	
Max. number of PV strings per MPPT		1	
Max. PV input current		12.5 A	
Max. PV short-circuit current		15 A	
Output (AC)			
AC output power	2000 VA	2500 VA	3000 VA
Max. AC output current	9.1 A	11.3 A	13.7 A
Nominal AC voltage		230 Vac	
AC voltage range		180 Vac – 276 Vac	
Nominal grid f requency		50 Hz / 60 Hz	
Grid f requency range		45 Hz – 55 Hz / 55 Hz – 65 Hz	
Total harmonic distortion (THD)		< 3 % (of nominal power)	
Power factor		> 0.99 / 0.8 leading – 0.8 lagging	
Feed-in phases / Connection phases		1 / 1	
Efficiency			
Max. efficiency / European efficiency	98.2 % / 97.2 %	98.2 % / 97.5 %	98.2 % / 97.7 %
Protection			
PV reverse connection protection		Yes	
AC short circuit protection		Yes	
Leakage current protection		Yes	
Grid monitoring		Yes	
PV string current monitoring		Yes	
DC switch		Yes (meet AS60947.3:2018)	
AFCI		Yes	
Overvoltage protection		DC Type II / AC Type II	
General Data			
Dimensions (W*H*D)		300*370*125 mm	
Weight		8.5 kg	
Isolation method		Transformerless	
Ingress protection rating		IP65	
Power loss in night mode		< 3 W	
Operating ambient temperature		-25 ℃ to 60 ℃ (>45 ℃ derating)	
Allowable relative humidity		0 – 100 %	
Cooling method		Natural cooling	
Max. operating altitude		4000 m (> 2000 m derating)	
Display / Communication		LCD / WLAN	
PV connection type		MC4 (max. 6 mm²)	
AC connection type		Plug and play connector (max. 6 mm²)	
Certification		IEC62109-1, IEC62109-2, IEC62116, IEC61727, EN 61000-6-2, EN 61000-6-3, VDE-AR-N-4105, CEI 0-21, VDE0126-1-1, UTE C15-712, VFR-2014, EN50438, C10/11, G83/2, G59/3SG2K5-S	

SG3K-D/SG5K-D

Residential Single Phase Inverter

Premium

HIGH YIELD

- Higher yield with Max. efficiency 98.4 %, European efficiency 98.0 %
- 12.5 A MPPT current, and compatible with bifacial modules
- Flexible PV string configurations, DC/AC ratio up to 1.4

SMART MANAGEMENT

- 24H real-time loads monitoring
- Easy local and online monitoring via App or Web

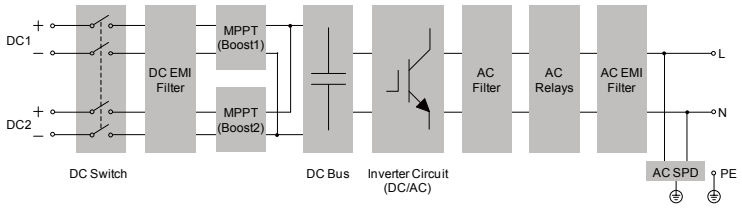
SAFE AND DURABLE

- Quick Arc Fault Circuit Interrupter
- Built-in Type II DC&AC surge protection device
- Built-in certified PV isolator

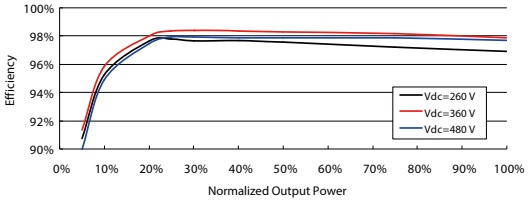
EASY AND USER FRIENDLY

- 11.5 kg compact design, plug and play installation
- Fast commissioning via App

CIRCUIT DIAGRAM



EFFICIENCY CURVE



Type designation	SG3K-D	SG5K-D
Input (DC)		
Max. PV input voltage	600 V	
Min. PV input voltage / Startup voltage	90 V / 120 V	
Nominal input voltage	360 V	
MPP voltage range	90 V – 560 V	
MPP voltage range for nominal power	160 V – 480 V	240 V – 480 V
No. of MPPTs	2	
Max. number of PV strings per MPPT	1	
Max. PV input current	25 A (12.5 A / 12.5 A)	
Max. PV short-circuit current	30 A (15 A / 15 A)	
Output Side Data		
AC output power	3000 VA	4999 VA
Max. AC output current	13.7 A	21.7 A
Nominal AC voltage	230 Vac	
AC voltage range	180 Vac – 276 Vac	
Nominal grid frequency	50 Hz / 60 Hz	
Grid frequency range	45 Hz – 55 Hz / 55 Hz – 65 Hz	
Total harmonic distortion (THD)	< 3 % (of nominal power)	
Power factor	> 0.99 / 0.8 leading – 0.8 lagging	
Feed-in phases / Connection phases	1 / 1	
Efficiency		
Max. efficiency	98.4 %	
Max. European efficiency	97.7 %	98.0 %
Protection		
PV reverse connection protection	Yes	
AC short circuit protection	Yes	
Leakage current protection	Yes	
Grid monitoring	Yes	
PV string current monitoring	Yes	
DC switch	Yes (meet AS60947.3:2018)	
AFCI	Yes	
Overvoltage protection	DC Type II / AC Type II	
General Data		
Dimensions (W*H*D)	360*390*133 mm	
Weight	11.5 kg	
Isolation method	Transformerless	
Ingress protection rating	IP65	
Power loss in night mode	< 3 W	
Operating ambient temperature	-25 ℃ to 60 ℃ (>45 ℃ derating)	
Allowable relative humidity	0 – 100 %	
Cooling method	Natural cooling	
Max. operating altitude	4000 m (> 2000 m derating)	
Display / Communication	LCD / WLAN	
PV connection type	MC4 (max. 6 mm²)	
AC connection type	Plug and play connector (max. 6 mm²)	
Certification	IEC62109-1, IEC62109-2, IEC62116, IEC61727, EN 61000-6-2, EN 61000-6-3, AS / NZS 4777.2	

SG8K-D

Residential Single Phase Inverter

Premium

HIGH YIELD

- Higher yield with Max. efficiency 98.5 %, European efficiency 98.0 %
- 12.5 A MPPT current, and compatible with bifacial modules
- Flexible PV string configurations, DC/AC ratio up to 1.4

SMART MANAGEMENT

- 24H real-time loads monitoring
- Easy local and online monitoring via App or Web

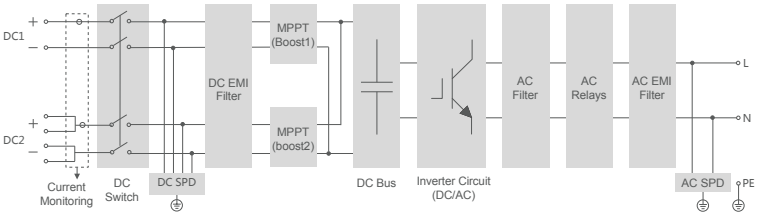
SAFE AND DURABLE

- Quick Arc Fault Circuit Interrupter
- Built-in Type II DC&AC surge protection device
- Built-in certified PV isolator

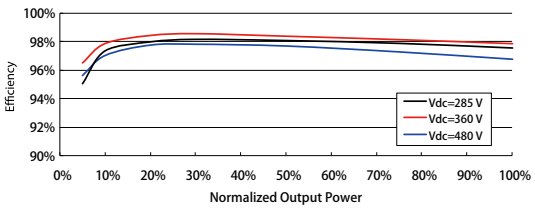
EASY AND USER FRIENDLY

- 15.5 kg compact design, plug and play installation
- Fast commissioning via App

CIRCUIT DIAGRAM



EFFICIENCY CURVE



Type designation	SG8K-D
Input (DC)	
Max. PV input voltage	600 V
Min. PV input voltage / Startup voltage	90 V / 120 V
Nominal input voltage	360 V
MPP voltage range	90 V – 540 V
MPP voltage range for nominal power	285 V – 480 V
No. of MPPTs	2
Max. number of PV strings per MPPT	1 / 2
Max. PV input current	12.5 A / 25 A
Max. PV short-circuit current	15 A / 30 A
Output Side Data	
AC output power	8000 VA
Max. AC output current	34.8 A
Nominal AC voltage	230 Vac
AC voltage range	180 Vac – 276 Vac
Nominal grid frequency	50 Hz / 60 Hz
Grid frequency range	45 Hz – 55 Hz / 55 Hz – 65 Hz
Total harmonic distortion (THD)	< 3 % (of nominal power)
Power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / Connection phases	1 / 1
Efficiency	
Max. efficiency / European efficiency	98.5 % / 98.0 %
Protection	
PV reverse connection protection	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
Grid monitoring	Yes
PV string current monitoring	Yes
DC switch	Yes (meet AS60947.3:2018)
AFCI	Yes
Overvoltage protection	DC Type II/AC Type II
General Data	
Dimensions (W*H*D)	360*390*148 mm
Weight	15.5 kg
Isolation method	Transformerless
Ingress protection rating	IP65
Power loss in night mode	< 3 W
Operating ambient temperature	-25 ℃ to 60 ℃ (>45 ℃ derating)
Allowable relative humidity	0 – 100 %
Cooling method	Natural cooling
Max. operating altitude	4000 m (> 2000 m derating)
Display / Communication	LCD / WLAN
PV connection type	MC4 (max. 6 mm²)
AC connection type	Plug and play connector (max. 6 mm²)
Certification	IEC62109-1, IEC62109-2, EN 61000-6-2, EN 61000-6-3, AS / NZS 4777.2

SG2.0RS-S

Single-MPPT String Inverter for 600 Vdc System

NEW

HIGH YIELD

- Compatible with high power PV modules and bifacial modules
- Lower startup & wider MPPT voltage range
- Built-in smart PID recovery function

SAFE AND RELIABLE

- Integrated arc fault circuit interrupter
- Built-in Type II DC&AC SPD
- Corrosion protection rating at C5

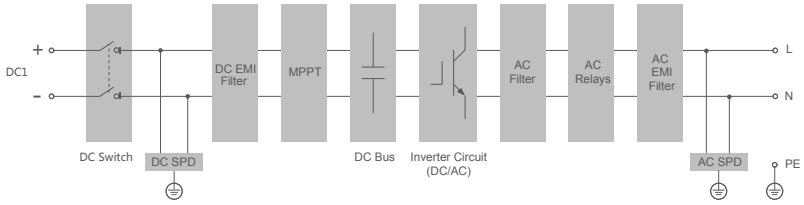
USER FRIENDLY SETUP

- Plug and play installation *
- One-click access to iSolarCloud monitoring platform
- Light and compact with optimized heat dissipation design

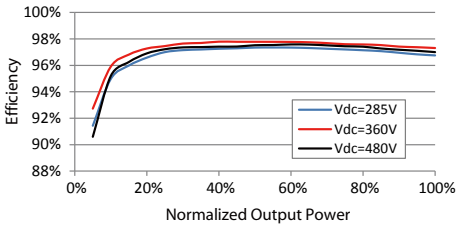
SMART MANAGEMENT

- Real time data (10 seconds refresh sample)
- 24/7 live monitoring both online and with integrated display
- Online IV curve scan and diagnosis

CIRCUIT DIAGRAM



EFFICIENCY CURVE



Type designation	SG2.0RS-S
Input (DC)	
Recommended max. PV input power	3 kWp
Max. PV input voltage	600 V
Min. operating PV voltage / Start-up input voltage	40 V / 50 V
Rated PV input voltage	360 V
MPP voltage range	40 – 560 V
No. of independent MPP inputs	1
Default No. of PV strings per MPPT	1
Max. PV input current	16 A
Max. DC short-circuit current	20 A
Output (AC)	
Rated AC output power	2000 W
Max. AC Output power	2000 VA
Rated AC output apparent power	2000 VA
Rated AC output current (at 230V)	8.7 A
Max. AC output current	9.1 A
Rated AC voltage	220 / 230 / 240 V
AC voltage range	154 – 276 V
Rated grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz
Harmonic (THD)	< 3 % (at rated power)
Power factor at rated power / Adjustable power factor	> 0.99 / 0.8 leading - 0.8 lagging
Feed-in phases / Connection phases	1 / 1
Efficiency	
Max. efficiency	97.8 %
European efficiency	96.9 %
Protection	
Grid monitoring	Yes
DC reverse polarity protection	Yes
AC short-circuit protection	Yes
Leakage current protection	Yes
Surge Protection	DC type II / AC type II
DC switch	Yes
PV string current monitoring	Yes
Arc fault circuit interrupter (AFCI)	Yes
PID recovery function	Yes
General Data	
Dimensions (W*H*D)	320 * 225* 120 mm
Weight	6kg
Mounting method	Wall-mounting bracket
Topology	Transformerless
Degree of protection	IP65
Operating ambient temperature range	-25 to 60 ℃
Allowable relative humidity range (non-condensing)	0 – 100 %
Cooling method	Natural cooling
Max. operating altitude	4000 m
Display	LED digital display & LED indicator
Communication	Ethernet/WLAN/RS485/DI (Ripple control & DRM)
DC connection type	MC4 (Max. 6 mm^2)
AC connection type	Plug and play connector (Max. 6 mm^2)*
Grid compliance	IEC / EN62109-1/2, IEC / EN62116, IEC / EN61727, IEC / EN61000-6-2/3, EN50549-1, AS4777.2:2020, ABNT NBR 16149, ABNT NBR 16150, UNE 217002:2020, NTS V2 TypeA, CEI 0-21:2020, VDE0126-1-1/A1(VFR-2019), UTE C15-712, C10/11, G98/G99
Grid Support	Active & reactive power control and power ramp rate control
Country of manufacture	China

* Country code needs to be set before grid connection

SG3.0/5.0RS

Double-MPPT String Inverter for 600 Vdc System

NEW

HIGH YIELD

- Compatible with high power PV modules and bifacial modules
- Lower startup & wider MPPT voltage range
- Built-in smart PID recovery function

SAFE AND RELIABLE

- Integrated arc fault circuit interrupter
- Built-in Type II DC&AC SPD
- Corrosion protection rating at C5

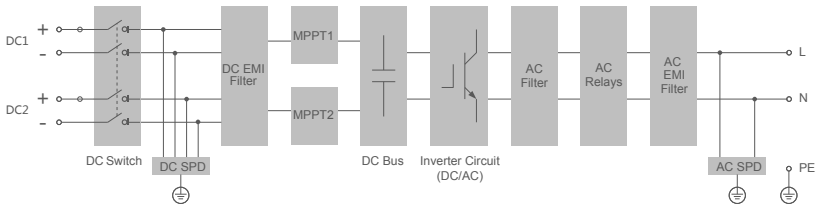
USER FRIENDLY SETUP

- Plug and play installation*
- One-click access to iSolarCloud monitoring platform
- Light and compact with optimized heat dissipation design

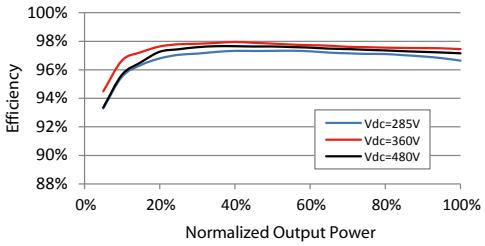
SMART MANAGEMENT

- Real time data (10 seconds refresh sample)
- 24/7 live monitoring both online and with integrated display
- Online IV curve scan and diagnosis

CIRCUIT DIAGRAM



EFFICIENCY CURVE



Type designation	SG3.0RS	SG5.0RS
Input (DC)		
Recommended max. PV input power	4.5 kWp	7.5 kWp
Max. PV input voltage	600 V	
Min. operating PV voltage / Start-up input voltage	40 V / 50 V	
Rated PV input voltage	360 V	
MPP voltage range	40 – 560 V	
No. of independent MPP inputs	2	
Default No. of PV strings per MPPT	1	
Max. PV input current	32 A (16 A / 16 A)	
Max. DC short-circuit current	40 A (20 A / 20 A)	
Output (AC)		
Rated AC output power	3000 W	4999 W
Max. AC Output power	3000 VA	4999 VA
Rated AC output apparent power	3000 VA	4999 VA
Rated AC output current (at 230V)	13.1 A	21.7 A
Max. AC output current	13.7 A	21.7 A
Rated AC voltage	220 / 230 / 240V	
AC voltage range	154 – 276 V	
Rated grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz	
Harmonic (THD)	< 3 % (at rated power)	
Power factor at rated power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging	
Feed-in phases / Connection phases	1 / 1	
Efficiency		
Max. efficiency	97.9 %	
European efficiency	97.0 %	97.3 %
Protection		
Grid monitoring	Yes	
DC reverse polarity protection	Yes	
AC short-circuit protection	Yes	
Leakage current protection	Yes	
Surge Protection	DC type II / AC type II	
DC switch	Yes	
PV string current monitoring	Yes	
Arc fault circuit interrupter (AFCI)	Yes	
PID recovery function	Yes	
General Data		
Dimensions (W*H*D)	410* 270* 150 mm	
Weight	10 kg	
Mounting method	Wall-mounting bracket	
Topology	Transformerless	
Degree of protection	IP65	
Operating ambient temperature range	-25 to 60 ℃	
Allowable relative humidity range (non-condensing)	0 – 100 %	
Cooling method	Natural cooling	
Max. operating altitude	4000 m	
Display	LED digital display & LED indicator	
Communication	Ethernet/WLAN/RS485/DI (Ripple control & DRM)	
DC connection type	MC4 (Max. 6 mm^2)	
AC connection type	Plug and play connector (Max. 6 mm^2)*	
Grid compliance	IEC / EN62109-1/2, IEC / EN62116, IEC / EN61727, IEC / EN61000-6-2/3, EN50549-1, AS4777.2:2020, ABNT NBR 16149, ABNT NBR 16150, UNE 217002:2020, NTS V2 TypeA, CEI 0-21:2020, VDE0126-1-1/A1(VFR-2019), UTE C15-712, C10/11, G98/G99	
Grid Support	Active & reactive power control and power ramp rate control	
Country of manufacture	China	

* Country code needs to be set before grid connection

SG8.0/10RS

Multi-MPPT String Inverter for 600 Vdc System

NEW

HIGH YIELD

- Compatible with high power PV modules and bifacial modules
- Lower startup & wider MPPT voltage range
- Built-in smart PID recovery function

SAFE AND RELIABLE

- Integrated arc fault circuit interrupter
- Built-in Type II DC&AC SPD
- Corrosion protection rating at C5

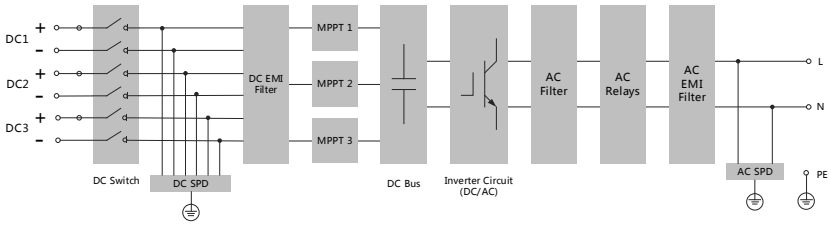
USER FRIENDLY SETUP

- Plug and play installation *
- One-click access to iSolarCloud monitoring platform
- Light and compact with optimized heat dissipation design

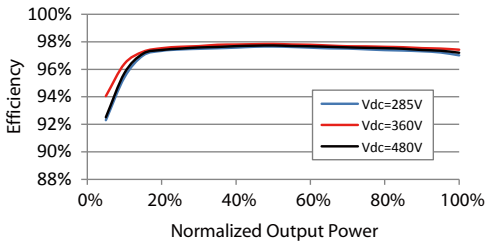
SMART MANAGEMENT

- Real time data (10 seconds refresh sample)
- 24/7 live monitoring both online and with integrated display
- Online IV curve scan and diagnosis

CIRCUIT DIAGRAM



EFFICIENCY CURVE



Type designation	SG8.0RS	SG10RS
Input (DC)		
Recommended max. PV input power	12 kWp	15 kWp
Max. PV input voltage	600 V	
Min. operating PV voltage / Start-up input voltage	40 V / 50 V	
Rated PV input voltage	360 V	
MPP voltage range	40 – 560 V	
No. of independent MPP inputs	3	
Default No. of PV strings per MPPT	1	
Max. PV input current	48 A (16 A / 16 A / 16 A)	
Max. DC short-circuit current	60 A (20 A / 20 A / 20 A)	
Output (AC)		
Rated AC output power	8000 W	10000 W
Max. AC Output power	8000 VA	10000 VA
Rated AC output apparent power	8000 VA	10000 VA
Rated AC output current (at 230V)	34.8 A	43.5 A
Max. AC output current	36.4 A	45.5 A
Rated AC voltage	220 / 230 / 240 V	
AC voltage range	154 – 276 V	
Rated grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz	
Harmonic (THD)	< 3 % (at rated power)	
Power factor at rated power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging	
Feed-in phases / Connection phases	1 / 1	
Efficiency		
Max. efficiency	97.8 %	
European efficiency	97.3 %	97.4 %
Protection		
Grid monitoring	Yes	
DC reverse polarity protection	Yes	
AC short-circuit protection	Yes	
Leakage current protection	Yes	
Surge Protection	DC type II / AC type II	
DC switch	Yes	
PV string current monitoring	Yes	
Arc fault circuit interrupter (AFCI)	Yes	
PID recovery function	Yes	
General Data		
Dimensions (W*H*D)	490* 340 * 170 mm	
Weight	19 kg	
Mounting method	Wall-mounting bracket	
Topology	Transformerless	
Degree of protection	IP65	
Operating ambient temperature range	-25 to 60 ℃	
Allowable relative humidity range (non-condensing)	0 – 100 %	
Cooling method	Natural cooling	
Max. operating altitude	4000 m	
Display	LED digital display & LED indicator	
Communication	Ethernet/WLAN/RS485/DI (Ripple control & DRM)	
DC connection type	MC4 (Max. 6 mm^2)	
AC connection type	Plug and play connector (Max. 16 mm^2) *	
Grid compliance	IEC / EN62109-1/2, IEC / EN62116, IEC / EN61727, IEC / EN61000-6-2/3, EN50549-1, AS4777.2:2020, ABNT NBR 16149, ABNT NBR 16150, UNE 217002:2020, NTS V2 TypeA, CEI 0-21:2020, VDE0126-1-1/A1(VFR-2019), UTE C15-712, C10/11, G98/G99	
Grid Support	Active & reactive power control and power ramp rate control	
Country of manufacture	China	

* Country code needs to be set before grid connection

SG5.0RS-ADA

Multi-MPPT String Inverter for 600 Vdc System

NEW

HIGH YIELD

- Compatible with high power PV modules and bifacial modules
- Lower startup & wider MPPT voltage range
- Built-in smart PID recovery function

SAFE AND RELIABLE

- Integrated arc fault circuit interrupter
- Built-in Type II DC&AC SPD
- Corrosion protection rating at C5

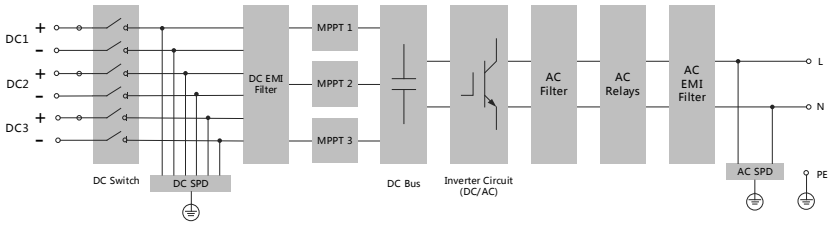
USER FRIENDLY SETUP

- Plug and play installation
- One-click access to iSolarCloud monitoring platform
- Light and compact with optimized heat dissipation design

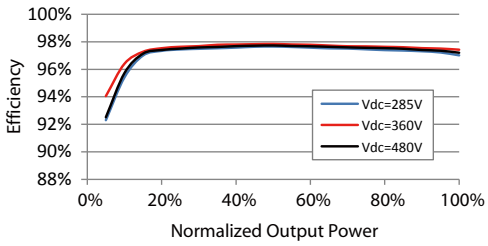
SMART MANAGEMENT

- Real time data (10 seconds refresh sample)
- 24/7 live monitoring both online and with integrated display
- Online IV curve scan and diagnosis

CIRCUIT DIAGRAM



EFFICIENCY CURVE



Type designation	SG5.0RS-ADA
Input (DC)	
Recommended max. PV input power	7.5 kWp
Max. PV input voltage	600 V
Min. operating PV voltage / Start-up input voltage	40 V / 50 V
Rated PV input voltage	360 V
MPP voltage range	40 – 560 V
No. of independent MPP inputs	3
Default No. of PV strings per MPPT	1
Max. PV input current	48 A (16 A / 16 A / 16 A)
Max. DC short-circuit current	60 A (20 A / 20 A / 20 A)
Output (AC)	
Rated AC output power	5000 W*
Max. AC Output power	5000 VA*
Rated AC output current (at 230V)	21.8 A**
Max. AC output current	22.8 A**
Rated AC voltage	220 / 230 / 240 V
AC voltage range	154 – 276 V
Rated grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz
Harmonic (THD)	< 3 % (at rated power)
Power factor at rated power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / Connection phases	1 / 1
Efficiency	
Max. efficiency	97.8 %
European efficiency	96.9 %
Protection	
Grid monitoring	Yes
DC reverse polarity protection	Yes
AC short-circuit protection	Yes
Leakage current protection	Yes
Surge Protection	DC type II / AC type II
DC switch	Yes
PV string current monitoring	Yes
Arc fault circuit interrupter (AFCI)	Yes
PID recovery function	Yes
General Data	
Dimensions (W*H*D)	490* 340 * 170 mm
Weight	19 kg
Mounting method	Wall-mounting bracket
Topology	Transformerless
Degree of protection	IP65
Operating ambient temperature range	-25 to 60 ℃
Allowable relative humidity range (non-condensing)	0 – 100 %
Cooling method	Natural cooling
Max. operating altitude	4000 m
Display	LED digital display & LED indicator
Communication	Ethernet/WLAN/RS485/DI (Ripple control & DRM)
DC connection type	MC4 (Max. 6 mm^2)
AC connection type	Plug and play connector (Max. 16 mm^2)
Grid compliance	IEC / EN62109-1/2, IEC / EN62116, IEC / EN61727, IEC / EN61000-6-2/3, EN50549-1, AS4777.2, ABNT NBR 16149, ABNT NBR 16150, UNE 217002:2020, NTS V2 TypeA, CEI 0-21:2020, VDE0126-1-1/A1(VFR-2019), UTE C15-712, C10/11, G98/G99
Grid Support	Active & reactive power control and power ramp rate control

*: AS 4777.2: 4999W, 4999VA
**: AS 4777.2 :Rated and Max. AC current is 21.7A

SG5.0/6.0/7.0/8.0/10/12RT

Multi-MPPT String Inverter for 1000 Vdc System

HIGH YIELD

- Lower startup & wider MPPT voltage
- Compatible with bifacial modules
- Built-in PID recovery function

SMART MANAGEMENT

- Smart IV curve scanning
- 24 / 7 Live monitoring
- Remote firmware updates

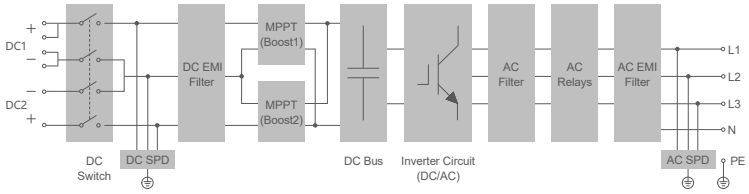
SAFE AND DURABLE

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

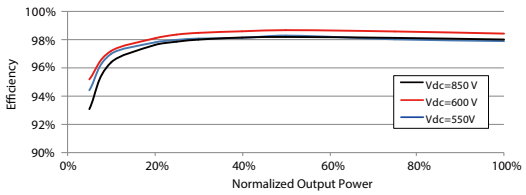
EASY AND USER FRIENDLY

- 18 kg compact design
- Unique push-in connectors
- Fast and easy commissioning via App

CIRCUIT DIAGRAM



EFFICIENCY CURVE



Type designation	SG5.0RT	SG6.0RT	SG7.0RT	SG8.0RT	SG10RT	SG12RT
Input (DC)						
Recommended max. PV input power	7.5 kWp	9.0 kWp	10.5 kWp	12 kWp	15 kWp	18 kWp
Max. PV input voltage	1100 V *					
Min. PV input voltage / Start-up input voltage	180 V					
Rated input voltage	600 V					
MPP voltage range	160 V – 1000 V					
No. of independent MPP inputs	2					
No. of PV strings per MPPT	1 / 1	1 / 1	2 / 1	2 / 1	2 / 1	2 / 1
Max. PV input current	25 A (12.5 A / 12.5 A)		37.5 A (25 A / 12.5 A)			
Max. DC short-circuit current	32 A (16 A / 16 A)		48 A (32 A / 16 A)			
Output (AC)						
Rated AC power (@230V,50Hz)	5000 W	6000 W	7000 W	8000 W	10000 W	12000 W
Max. AC output power	5500 VA	6600 VA	7700 VA	8800 VA	11000 VA	13200 VA
Rated AC output apparent power	5500 VA	6600 VA	7700 VA	8800 VA	11000 VA	13200 VA
Max. AC output current	7.6 A	9.1 A	10.6 A	12.2 A	15.2 A	18.2 A
Rated AC voltage	3 / N / PE, 220 / 380 V 3 / N / PE, 230 / 400 V 3 / N / PE, 240 / 415 V					
AC voltage range	180 V – 276 V / 311 V – 478 V					
Rated grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz 60 Hz / 55 – 65 Hz					
Harmonic(THD)	<3 % (at rated power)					
Power factor at nominal power / Ajustable power factor	>0.99 / 0.8 leading – 0.8 lagging					
Feed-in phases / Connection phases	3 / 3-PE					
Efficiency						
Max. efficiency	98.40 %	98.40 %	98.40 %	98.50 %	98.50 %	98.50 %
European efficiency	97.40 %	97.40 %	97.70 %	97.80 %	97.90 %	97.90 %
Protection						
Grid monitoring	Yes					
DC reverse connection protection	Yes					
AC short-circuit protection	Yes					
Leakage current protection	Yes					
Surge Protection	DC Type II / AC Type II					
DC switch	Optional					
Arc fault circuit interrupter (AFCI)	Yes					
PID recovery function	Yes					
General Data						
Dimensions (W*H*D)	370*480*195 mm					
Mounting method	Wall-mounting bracket					
Weight	18 kg					
Topology	Transformerless					
Degree of protection	IP65					
Operating ambient temperature range	-25 °C to 60 °C					
Allowable relative humidity range	0% – 100 %					
Cooling method	Natural cooling					
Max. operating altitude	4000 m (> 2000 m derating)					
Display	LED					
Communication	WLAN / Ethernet / RS485 / DI / DO					
DC connection type	MC4 (Max. 6 mm²)					
AC connection type	Plug and play					
Compliance	IEC / EN 61000-6-1/2/3/4, IEC 61000-3-2/3/11/12, IEC / EN62109-1/2, IEC 61727, IEC 62116, IEC 61683, IEC 60068-2-1/2/14/30/64/27,IEC TS 62910 , EN50530, AS/NZS 4777.2:2020, VDE AR-N-4105, DIN VDE0126-1-1/A1, EN50549-1, DEWA, VFR 2019, UTE C15-712-1, PSE NC RfG, NTS 2.0, UNE 206006/7 IN, UNE 217002, MEA/PEA, G98					
Country of manufacture	China					

*: The inverter enters the standby state when the input voltage ranges between 1,000V and 1,100V. If the maximum DC voltage in the system can exceed 1000V, the MC4 connectors included in the scope of delivery must not be used. In this case MC4 Evo2 connectors must be used.

SG15/17/20RT

Multi-MPPT String Inverter for 1000 Vdc System

HIGH YIELD

- Lower startup & wider MPPT voltage
- Compatible with bifacial modules
- Built-in PID recovery function

SMART MANAGEMENT

- Smart IV curve scanning
- 24 / 7 Live monitoring
- Remote firmware updates

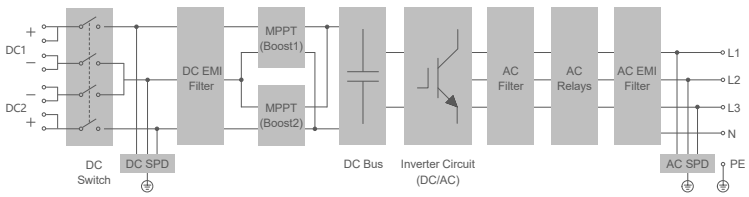
SAFE AND DURABLE

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

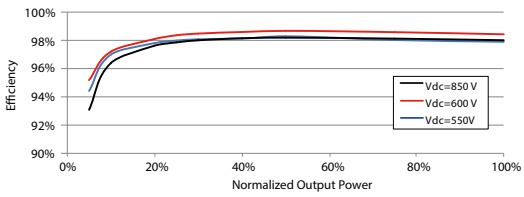
EASY AND USER FRIENDLY

- 21 kg compact design
- Unique push-in connectors
- Fast and easy commissioning via App

CIRCUIT DIAGRAM



EFFICIENCY CURVE



Type designation	SG15RT	SG17RT	SG20RT
Input (DC)			
Recommended max. PV input power	22.5 kWp	25.5 kWp	30 kWp
Max. PV input voltage		1100 V*	
Min. PV input voltage / Start-up input voltage		180 V	
Rated input voltage		600 V	
MPP voltage range		160 V – 1000 V	
No. of independent MPP inputs		2	
No. of PV strings per MPPT		2 / 2	
Max. PV input current		50 A (25 A / 25 A)	
Max. DC short-circuit current		64 A (32 A / 32 A)	
Output (AC)			
Rated AC power (@230V, 50 Hz)	15000 W	17000 W	20000 W
Max. AC output power	16500 VA	18700 VA	22000 VA
Rated AC output apparent power	16500 VA	18700 VA	22000 VA
Max. AC output current	25 A	28.3 A	31.9 A
Rated AC voltage		3 / N / PE, 220 / 380 V 3 / N / PE, 230 / 400 V 3 / N / PE, 240 / 415 V	
AC voltage range		180 V – 276 V / 311 V – 478 V	
Rated grid frequency / Grid frequency range		50 Hz / 45 – 55 Hz 60 Hz / 55 – 65 Hz	
Harmonic(THD)		<3 % (at rated power)	
Power factor at nominal power / Ajustable power factor		>0.99 / 0.8 leading – 0.8 lagging	
Feed-in phases / Connection phases		3 / 3	
Efficiency			
Max. efficiency		98.50 %	
European efficiency		98.10 %	
Protection			
Grid monitoring		Yes	
DC reverse connection protection		Yes	
AC short-circuit protection		Yes	
Leakage current protection		Yes	
Surge Protection		DC Type II / AC Type II	
DC switch		Optional	
Arc fault circuit interrupter (AFCI)		Yes	
PID recovery function		Yes	
General Data			
Dimensions (W*H*D)		370*480*195 mm	
Mounting method		Wall-mounting bracket	
Weight		21 kg	
Topology		Transformerless	
Degree of protection		IP65	
Operating ambient temperature range		-25 °C to 60 °C	
Allowable relative humidity range (non-condensing)		0% – 100%	
Cooling method		Smart forced air cooling	
Max. operating altitude		4000 m (> 2000 m derating)	
Display		LED	
Communication		WLAN / Ethernet / RS485 / DI / DO	
DC connection type		MC4	
AC connection type		Plug and play	
Compliance		IEC / EN 61000-6-1/2/3/4, IEC 61000-3-2/3/11/12, IEC / EN62109-1/2, IEC 61727, IEC 62116, IEC 61683, IEC 60068-2-1/2/14/30/64/27,IEC TS 62910 , EN50530, AS/NZS 4777.2:2020, VDE-AR-N-4105, DIN VDE0126-1-1/A1, EN50549-1, DEWA, VFR 2019, UTE C15-712-1, PSE NC RfG, NTS 2.0, UNE 206006/7 IN, UNE 217002, MEA/PEA, G98	
Country of manufacture		China	

*: The inverter enters the standby state when the input voltage ranges between 1,000V and 1,100V. If the maximum DC voltage in the system can exceed 1000V, the MC4 connectors included in the scope of delivery must not be used. In this case MC4 Evo2 connectors must be used.

SH5K-30

Residential Hybrid Single Phase Inverter

FLEXIBLE APPLICATION

- Convenient for new installation and retrofit
- Compatible with both lithium-ion and leadacid batteries
- Energy trading ready with 3rd-party EMS to maximise ROI

SAFE AND RELIABLE

- Built-in surge arresters and residual current protection
- Durable finish with high anti-corrosion enclosure

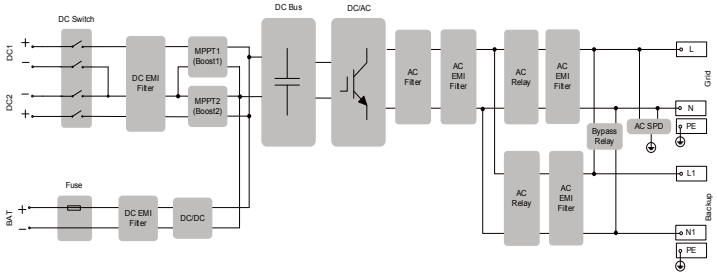
SMART MANAGEMENT

- High self-consumption with optimised built-in EMS
- Free online monitoring to enhance energy management for end user, installer and retailer
- Remote firmware update and customisable settings

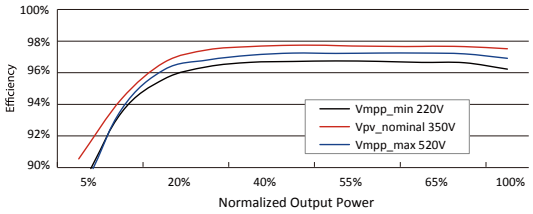
EASY INSTALLATION

- Cleaner and simpler install with EPS built-in to inverter
- Custom-fit mounting plate with built-in level
- Fast and easy commissioning via front panel LCD or App

CIRCUIT DIAGRAM



EFFICIENCY CURVE



Type designation	SH5K-30
DC Input Data	
Max. PV input power	6700 W
Max. PV input voltage	600 V
Startup voltage	125 V
Nominal input voltage	350 V
MPP voltage range	125 V – 560 V
MPP voltage range for nominal power	240 V – 520 V
No. of MPPTs	2
Max. number of PV strings per MPPT	1 / 1
Max. PV input current	22 A (11 A / 11 A)
Max. current for input connector	12 A
Short-circuit current of PV input	30 A (15 A / 15 A)
AC Input and Output Data	
Nominal AC output power	5000 W *1
Nominal AC ouput current	22.7 A *2
Max. AC output apparent power	5000 VA
Max. AC output current	22.7 A *2
Max. AC input power	8000 W
Max. AC input current	36.4 A *3
Nominal AC voltage	220 Vac / 230 Vac / 240 Vac
AC voltage range	176 Vac – 276 Vac
Nominal grid frequency	50Hz
Grid frequency range	45 – 55Hz (this may vary with grid standards)
THD (Total Harmonic Distortion)	<3 % (of nominal power)
DC current injection	<0.5 % (of nominal current)
Power factor	>0.99 / 0.8 leading to 0.8 lagging
Protection	
Anti-islanding protection	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
DC switch (solar)	Yes (meet AS60947.3:2018)
DC fuse (battery)	Yes
Overvoltage Category	III [MAIN], II [PV] [BATTERY]
Battery Data	
Battery type	Li-ion* battery / Lead-acid battery
Battery voltage	48 V (32 V–70 V)
Max. charge / discharge current	65 A / 65 A
System Data	
Max. efficiency	> 97.7 %
Max. European efficiency	> 97.1 %
Max. charge / discharge efficiency	> 94.0 %
Isolation method (solar)	Transformerless
Isolation method (battery)	HF
Ingress protection rating	IP65
Operating ambient temperature range	-25 ℃ to 60 ℃ (>45 ℃ derating)
Relative humidity range	0%–100%
Cooling method	Natural convection
Max. operating altitude	2000m
Display	Graphic LCD
Communication	2 × RS485, WiFi , CAN, Ethernet
Power management	1 × Digital Output
PV connection type	MC4
AC connection type	Clamping yoke connector
Certification	AS/NZS 4777.2, IEC 62109-1, IEC62109-2, IEC62477-1, EN 61000-6-1/-3
Mechanical Data	
Dimensions (W * H * D)	457 * 515 * 170 mm
Mounting method	Wall-mounting bracket
Weight	22 kg
Backup Data	
Nominal voltage	220 Vac / 230 Vac / 240 Vac
Frequency range	50 Hz (± 0.2 %)
Switch time to emergency mode	<20 ms
Backup nominal AC output power	3000 W / 3000 VA
Max. output power	5000W / 5000 VA
Max. output power (battery)	3000 W / 3000 VA
Peak output power,Duration	6000 VA, 10S

*1: AS4777 : 4990 W, 4990 VA
*2: AS4777 : 21.7 A
*3: AS4777 : 34.8 A

SH5.0/6.0RS

Residential Hybrid Single Phase Inverter

NEW

FLEXIBLE APPLICATION

- 80~460 V wide battery voltage range
- Ideal for both retrofitting and new installations
- Built-in smart PID recovery function

ENERGY INDEPENDENCE

- Seamless transition to backup mode, for protection against power outages
- Fast Charging or discharging, enabling higher self-consumption results
- Built-in EMS with advanced customization

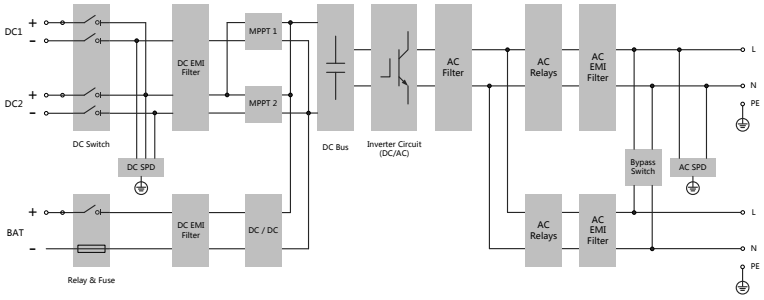
USER FRIENDLY SETUP

- Plug and play installation
- iSolarCloud monitoring available on App and Web
- Lightweight and compact, optimized for heat-dissipation

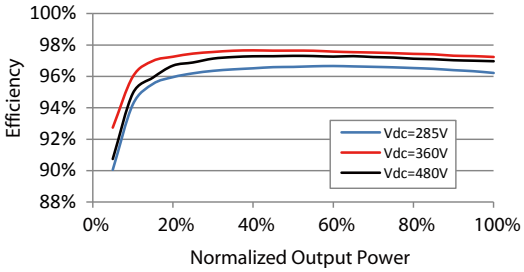
SMART MANAGEMENT

- Real time data (10 seconds refresh sample)
- 24/7 live monitoring both online and with integrated display
- Online IV curve scan and diagnosis

CIRCUIT DIAGRAM



EFFICIENCY CURVE



Type designation	SH5.0RS	SH4.0RS	SH6.0RS
Input (DC)			
Recommended max. PV input power	12000 Wp		13000 Wp
Max. PV input voltage		600 V	
Min. operating PV voltage / Start-up input voltage		40 V / 50 V	
Rated PV input voltage		360 V	
MPP voltage range		40V – 560 V	
No. of independent MPP inputs		2	
Default No. of PV strings per MPPT		1	
Max. PV input current		32 A (16 A/16 A)	
Max. DC short-circuit current		40 A (20 A/20 A)	
Input / Output (AC)			
Max. AC input power from grid	12000 VA		13000 VA
Rated AC output power	5000 W*		6000 W
Max. AC output power	5000 VA*		6000 VA
Rated AC output current (at 230 V)	21.8 A**		26.1 A
Max. AC output current	22.8 A**		27.3 A
Rated AC voltage		220 / 230 / 240 V	
AC voltage range		154 V – 276 V	
Rated grid frequency /		50 Hz / 45 – 55 Hz	
Grid frequency range		60 Hz / 55 – 65 Hz	
Harmonic (THD)		<3 % (of rated power)	
Power factor at rated power /		>0.99 at default value at rated power	
Adjustable power factor		(adj. 0.8 overexcited/leading to 0.8 underexcited/lagging)	
Feed-in phases / connection phases		1 / 1	
Efficiency			
Max. efficiency / European efficiency	97.7 % / 97.3 %		97.7 % / 97.3 %
Protection & Function			
Grid monitoring		Yes	
DC reverse polarity protection		Yes	
AC short circuit protection		Yes	
Leakage current protection		Yes	
Surge Protection		DC Type II /AC Type II	
DC switch(solar)		Yes	
DC fuse(battery)		Yes	
PID recovery function		Yes	
Battery input reverse polarity protection		Yes	
Battery Data			
Battery type		Li-ion battery	
Battery voltage		80 V – 460 V	
Max charge / discharge current		30 A / 30 A	
Max charge / discharge power		6600 W	
General Data			
Dimensions (W * H * D)		490 * 340 * 170 mm	
Weight		18.5 kg	
Mounting method		Wall-mounting bracket	
Topology (Solar / Battery)		Transformerless / Transformerless	
Degree of protection		IP65	
Operating ambient temperature range		-25 ℃ to 60 ℃	
Allowable relative humidity range		0 % – 100 %	
Cooling method		Natural convection	
Max. operating altitude		4000 m	
Display		LED digital display & LED indicator	
Communication		RS485 / Ethernet / WLAN / CAN	
DI / DO		DI * 4 / DO * 1 / DRM	
DC connection type		MC4 (PV) / Sunclix (Battery)	
AC connection type		Plug and Play	
Grid compliance		IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-3-11, IEC/EN 61000-3-12, EN 62477-1, AS/NZS 4777.2, EN 50549-1, CEI 0-21, G98 / G99	
Backup Data (on grid mode)			
Rated output power for backup load		6000 W	
Rated output current for backup load		27.3 A	
Backup Data (off-grid mode)			
Rated voltage		220 V / 230 V / 240 V (±2 %)	
Frequency range		50 Hz / 60 Hz (±0.2 %)	
Total output THDv for linear load		< 2 %	
Switch time to emergency mode		< 10 ms	
Rated output power	5000 W / 5000 VA		6000 W / 6000 VA
Peak output power		8400 VA, 10s	

* AS4777.2 4999W, 4999VA ** AS 4777.2 :Rated and Max. AC current is 21.7A

SH5.0/10RT

Residential Hybrid Three phase Inverter

FLEXIBLE APPLICATION

- 150–600V wide battery voltage range
- Supports parallel connection with full communication between inverters
- Provides 100% unbalance loads in backup mode

ENERGY INDEPENDENCE

- Seamless transition to backup mode for protection against power outages
- Fast charging/discharging to meet the demand of higher consumption and energy trading

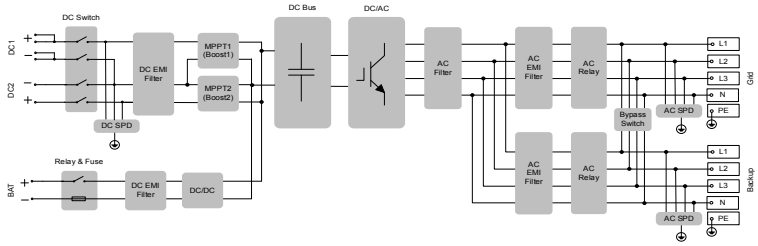
SMART MANAGEMENT

- High self-consumption with optimised built-in EMS
- Free online monitoring to enhance energy management for end user, installer and retailer
- Remote firmware update and customisable settings

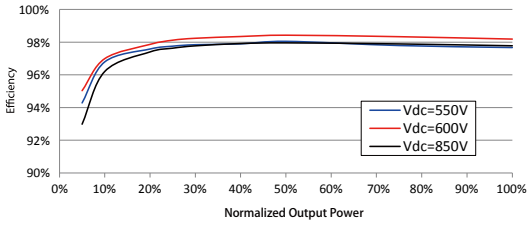
EASY INSTALLATION

- Unique push-in connectors for time-saving installation
- Touch free commissioning with smartphone
- Lightweight and compact

CIRCUIT DIAGRAM



EFFICIENCY CURVE



Type designation	SH5.0RT	SH10RT
PV Input		
Max. PV input power	7500 W	15000 W
Max. PV input voltage	1000 V	
Startup voltage	180 V	250 V
Nominal input voltage	600 V	
MPP voltage range	150 V – 950 V	200 V – 950 V
MPP voltage range for nominal power	210 V – 850 V	280 V – 850 V
No. of MPPTs	2	
Max. number of PV strings per MPPT	1 / 1	1 / 2
Max. PV input current	25 A (12.5 A / 12.5 A)	
Max. current for input connector	16 A	
Short-circuit current of PV input	32 A (16 A / 16 A)	48 A (16 A / 32 A)
AC Input and Output		
Max. AC input power from grid	12500 W	20600 W
Nominal AC output power	5000 W	10000 W
Nominal AC ouput current	7.3 A	14.5 A
Max. AC output apparent power	5000 VA	10000 VA
Max. AC output current	7.6 A	15.2 A
Nominal AC voltage	3 / N / PE, 220 / 380 V; 230 / 400 V; 240 / 415 V	
AC voltage range	270 – 480 V	
Rated grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz	
THD	<3 % (of nominal power)	
DC current injection	<0.5 % In	
Power factor	>0.99 / 0.8 leading to 0.8 lagging	
Protection		
LVRT	Yes	
Anti-islanding protection	Yes	
AC short circuit protection	Yes	
Leakage current protection	Yes	
DC switch (solar)	Optional	
DC fuse (battery)	Yes	
Overvoltage category	III [MAINS], II [PV] [BATTERY]	
SPD	DC Type II / AC Type II	
Battery input reverse polarity protection	Yes	
Parallel operation / Max. No. of inverters	Master-slave mode / 5 *	
Battery Data		
Battery type	Li-ion battery	
Battery voltage	150 V – 600 V	
Max charge / discharge current	30A ** / 30A **	
Max charge / discharge power	7500 W / 6000 W	10600 W / 10600 W
System Data		
Max. efficiency	98.0%	98.4%
European efficiency	97.2%	97.9%
Isolation method (solar / battery)	Transformerless / Transformerless	
Degree of protection	IP65	
Operating ambient temperature range	-25 ℃ – 60 ℃	
Allowable relative humidity range (non-condensing)	0% – 100%	
Cooling method	Natural convection	
Max. operating altitude	4000 m (>3000 m derating)	
Noise (Typical)	30dB (A)	
Display	LED	
Communication	RS485, WLAN, Ethernet, CAN, 4×DI, 1×DO	
DC connection type	MC4 (PV) / Sunclix (Battery)	
AC connection type	Plug and play connector	
Compliance	IEC / EN 62109, IEC / EN 61000-6, EN 62477-1, IEC 61727, IEC 62116, IEC 61683, VDE-AR-N-4105, AS/NZS 4777.2, EN50549-1, NRS 097-2-1, R25	
Mechanical Data		
Dimensions (W * H * D)	460 * 540 * 170 mm	
Mounting method	Wall-mounting bracket	
Weight	27 kg	
Backup Data		
Rated voltage	3 / N / PE, 220 Vac / 230 Vac / 240 Vac	
Frequency range	50Hz / 60Hz	
Total hamonic factor output voltage(Linear load)	2%	
Switch time to emergency mode	< 20ms	
Nominal output power	5000 W / 5000 VA	10000 W / 10000 VA
Peak output power ***	6000 W / 6000 VA, 5min 10000 W / 10000 VA, 10s	12000 W / 12000 VA, 5min

*: This function will be available in 2021 Q2, Germany is available for 2 inverters parallel in maximum if no ripple control is used in system
**: Depending on the connected battery
***: Can be reached only if PV and battery power is enough

SBR096/128/160/192/224/256

High Voltage LFP Battery

HIGH-PERFORMANCE

- Up to 30A continuous charging and discharging current with high efficiency
- Up to 100% usable energy

SAFETY

- Lithium iron phosphate Battery
- Multi-stages protection design and extensive safety certification

FLEXIBILITY

- Extendable during lifetime
- Support 3-8 modules per unit, max. 4 units in parallel, 9–100 kWh capacity range

EASY INSTALLATION

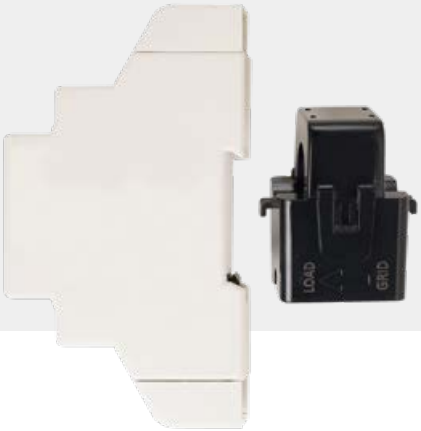
- Compact and light, single person installation
- Plug and play, no cables needed between battery modules

Type designation	SBR096	SBR128	SBR160	SBR192	SBR224	SBR256
Technical properties	 3 modules	 4 modules	 5 modules	 6 modules	 7 modules	 8 modules
System Data						
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
Energy (usable) [1]	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
Operating voltage	150 – 219 V	200 – 292 V	250 – 365 V	300 – 438 V	350 – 511 V	400 – 584 V
Rated DC power	5.76 kW	7.68 kW	9.6 kW	11.52 kW	13.44 kW	15.36 kW
Max. charge / discharge power	6.57 kW	8.76 kW	10.95 kW	13.14 kW	15.33 kW	17.52 kW
Max. charging / discharging current: continuous	30 A					
Max. charging / discharging current:	42 A					
Depth of Discharge	Max.100 % DOD (settable)					
Short circuit current	3500 A					
Display	SOC indicator, status indicator					
Communication interface	CAN					
Protection						
Over / under voltage protection	Yes					
Over current protection	Yes					
Over / under temperature protection	Yes					
DC breaker	Yes					
General Data						
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
Installation Location	Indoor / Outdoor					
Mounting method	Floor stand					
Operating ambient temperature range	Charge: 0 to 50 ℃ Discharge: -30 to 50 ℃					
Degree of protection	IP55					
Allowable relative humidity range	0 % to 95 % no condensing					
Max. operating altitude	Max. 2000 m					
Cooling method	Natural convection					
Certificates	CE, CEC, IEC 62619, IEC 62040, UN38.3, VDE 2510-50					
Warranty [2]	10 Years					

1: Test conditions: 25 ℃, 100 % depth of discharge (DOD), 0.2C charge&discharge
2: Refer to battery warranty letter for conditional application

S100

Single-phase Smart Energy Meter



Type designation	S100
Electrical Parameter	
Nominal voltage	240 Vac
Input voltage range	180 Vac - 286 Vac
Power consumption	<2W (10 VA)
Max. operating current	100 A
Grid frequency	50 Hz
Measurement accuracy	Class 1
Interface and communication	RS485
Environmental Condition	
Ingress protection rating	IP20
Operating ambient temperature	-25 to 75 °C
Relative humidity	0 – 95 %
Mechanical Data	
Dimensions (W * H * D)	18 * 117 * 65 mm
Weight	0.2 kg
Installation	35 mm DIN-rail

DTSU666

Three-phase Smart Energy Meter

Type designation	DTSU666
Electrical Parameter	
Nominal voltage	230 Vac / 400 Vac
Input voltage range	57.7 / 100 Vac - 265 / 460 Vac
Power consumption	< 1.5W (6 VA)
Max. operating current	80 A
Grid frequency	50/60 Hz
Measurement accuracy	Class 1
Interface and communication	RS485
Environmental Condition	
Ingress protection rating	IP20
Operating ambient temperature	-30 ℃ - +60 ℃
Relative humidity	75 %
Mechanical Data	
Dimensions (W * H * D)	72 * 65* 100 mm
Weight	0.4 kg
Installation	35 mm DIN-rail

DTSD1352-C/1 (6)A*

Three-phase Smart Energy Meter

Type designation	DTSD1352-C/1 (6)A
Electrical Parameter	
Nominal voltage	230 Vac / 400 Vac
Input voltage range	57.7 / 100 Vac - 268 / 464 Vac
Power consumption	<2W (10 VA)
Max. operating current	3×1 (6) A (via CTs)
Grid frequency	50 Hz / 60 Hz
Measurement accuracy	Class 0.5 (Active)
Interface and communication	RS485
Environmental Condition	
Ingress protection rating	IP20
Operating ambient temperature	-25 to 55 °C
Relative humidity	0 - 95 %
Mechanical Data	
Dimensions (W * H * D)	126 * 91 * 74 mm
Weight	0.35 kg
Installation	35 mm DIN-rail

* DTSD1352-C/1 (6)A needs to be used with CT externally.

WiNet-S

LAN Communication Module

SMART AND FLEXIBLE

- WLAN or Ethernet, flexible compatibility of plant networking, one-click access to iSolarCloud
- Automatic network configuration with DHCP, transmission without configuration
- Free WLAN configuration, easy and time saving

SIMPLE AND EFFICIENT

- Plug and play, quick installation
- Data interval in seconds, quick glance for what you want
- Support of Smart IV Curve Diagnosis[1]
- Support of local and remote parameter setting and firmware updates

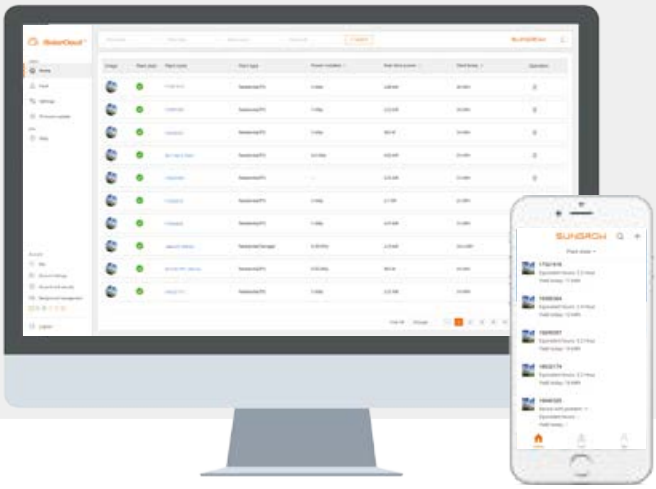
SAFE AND RELIABLE

- Password and encrypted transmission for data protection
- IP66, wide temperature range

Type designation	WiNet-S
Communication	
Max. number of devices	1
LED display	LED * 3
Communication Mode	
Internet communication	Channel * 1, 10/100Mbps self-adaption, Communcation distance ≤100m
WLAN commnunicatoin	802.11 b/g IEEE802.11n HT20@2.4GHz IEEE802.11n HT40@2.4GHz 2.4 GHz
Power Supply	
DC input	5 VDC, 2.1 A
Power consumption	≤5 W
Ambient conditions	
Operating Temperature	-30 °C to 60 °C
Relative air humidity	≤95 % (non-condensing)
Elevation	≤4000 m
Protection class	IP66
Mechanical parameters	
Dimensions (W * H * D)	48 mm * 132 mm * 36 mm
Mounting type	Plug and play

iSolarCloud

Online Monitoring Platform



FLEXIBLE AND FRIENDLY

- Centralized power plant management, low O&M cost
- Flexible data access, Web portal and App, remote or local maintenance
- Easy account management, share plants with co-workers and friends

SAFE AND RELIABLE

- Hierarchical access management
- Cyber security and redundant data storage over the lifecycle of plants, certified data security
- Full log for trace and audit

SIMPLE AND EFFICIENT

- Scan QR to create plant or get support
- Accurate positioning of faults, quick trouble shooting, realtime push of information to reduce the time to resolve faults
- Parameter setting, firmware updates, automated data reports

Type designation	iSolarCloud
Monitoring Device	
Device type	Inverter, combiner box, meteo station, energy meter, transformer and other plant devices
Monitoring Capacity	More than 100 GW (scalable)
Data Collection	
Time interval	5minutes or less
General Data	
Language	Chinese, English, German, French, Spaish, Portuguese, Italian, Dutch, Polish, Japanese, Korean, Vietnamese, Traditional Chinese
Data storage time	> 25 years
Storage capability	> 100PB
System reliability	99.99%
Minimum Web requirements	
Browser	IE 11, Chrome 65, Safari 11, Firefox 60
Resolution	1366 * 768, 1920 * 1080 recommended
Minimum Operating Environment for App	
Dimensions (W * H * D)	1920 * 1080, 2001 * 1125, 1280 * 720
Mounting type	Android 5.0, iOS 10.0

SUNGROW

Clean power for all

RE100 EP100

Sungrow Australia Group Pty.Ltd.

Add: Suite 1703, 99 Mount Street, North Sydney, NSW 2060. Australia
Tel: (toll free): 1800 SUNGROW (786 476); (Overseas): +612 9922 1522
Tel: 1800 SUNGROW (786 476) (Local Toll-free)
+61 2 9922 1522 (Overseas)
Email: service@sungrowpower.com.au
Website: www.sungrowpower.com