



COMMERCIAL PV/ESS PLANT

SYSTEM SOLUTIONS

SUNGROW
Clean power for all



ABOUT SUNGROW





Sungrow Power Supply Co., Ltd (“Sungrow”) is the world’s most bankable inverter brand with over 87 GW installed worldwide as of June 2019. 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, and residential applications, as well as internationally recognized floating PV plant solutions. With a strong 22-year track record in the PV space, Sungrow products power installations in over 60 countries, maintaining a worldwide market share of over 15%.

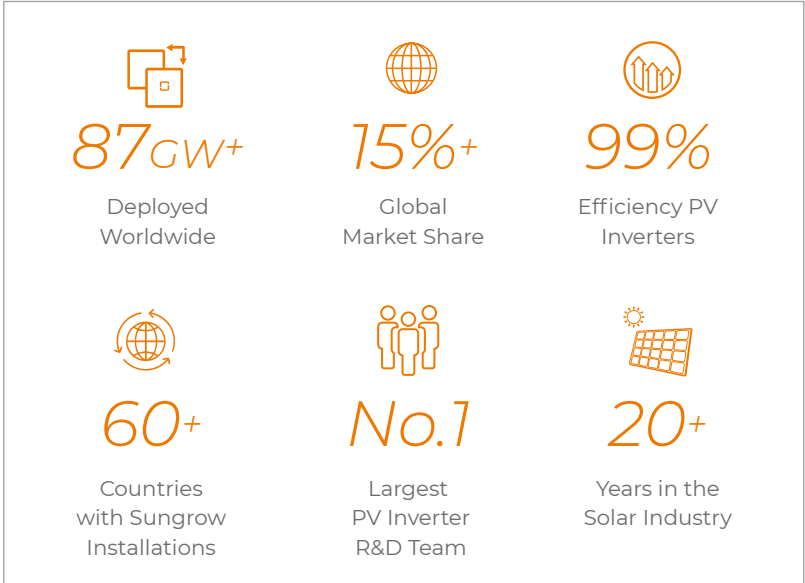
As a leader of innovation in the solar industry, Sungrow possesses a dynamic R&D team which consists of over 1000 employees. The Company has also invested its own in-house testing center approved by UL, CSA, TÜV Rheinland, and TÜV SÜD. In 2019, Sungrow launched the world’s largest inverter factory, once fully operational, the global annual production capacity will reach 50 GW, including 3 GW of India factory.

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 supplier in financed projects • 100% bankable

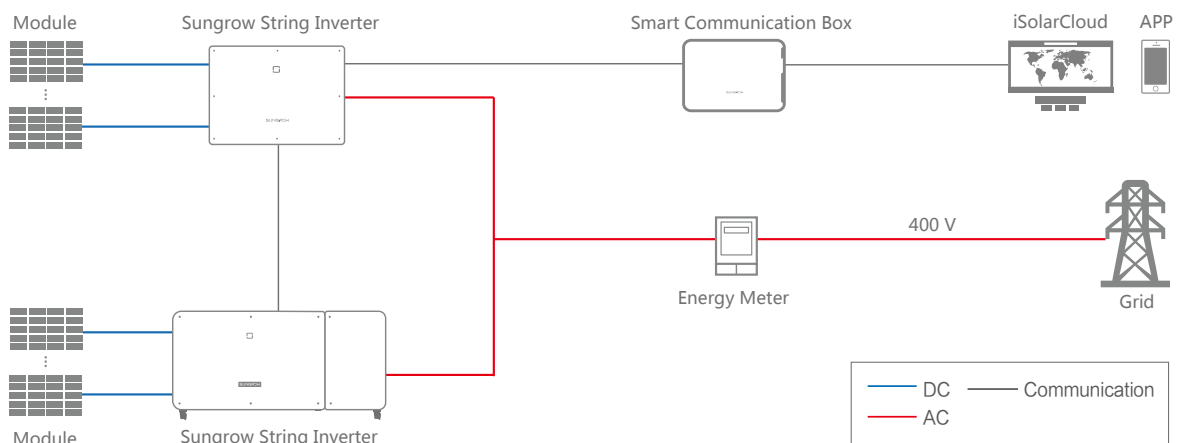
Source: BloombergNEF



C&I PV Plant System Solution



C&I PV Plant System Solution



Recommend Products



SG110CX



SG30/50CX



SG15/20KTL-M



COM100

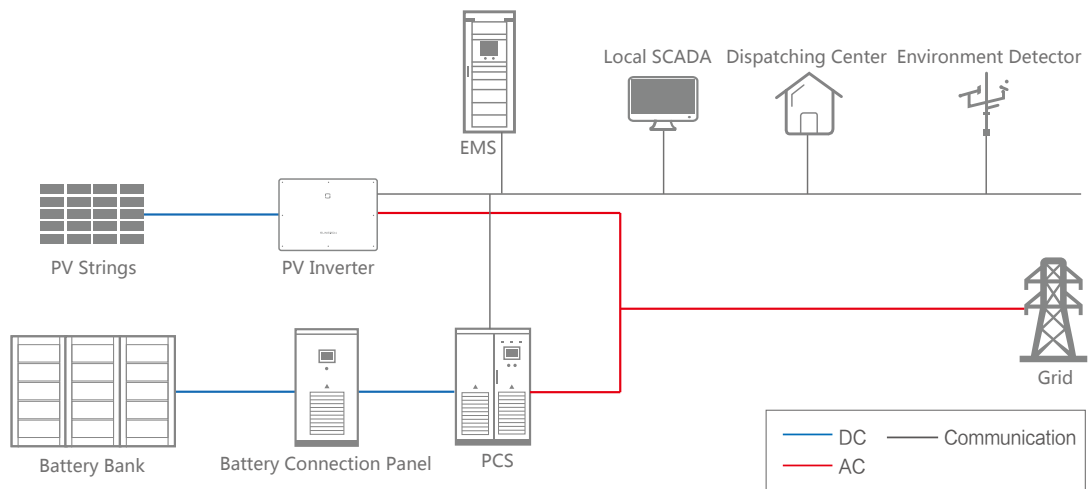


logger1000

C&I Hybrid (PV+ESS) Solution



C&I Hybrid (PV+ESS) Solution



Recommend Products



ST548KWH-250



ST343KWH-100



SG110CX



SG30/50CX

Multi-MPPT String Inverter for 1000 Vdc System



HIGH YIELD

- 9 MPPTs with max. efficiency 98.7%
- Compatible with bifacial module
- Built-in PID recovery function



EASY O&M

- Touch free commissioning and remote firmware upgrade
- Online IV curve scan and diagnosis*
- Fuse free design with smart string current monitoring



LOW COST

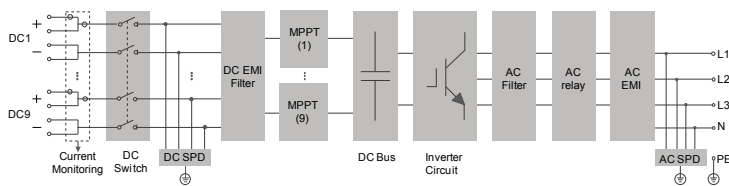
- Compatible with Al and Cu AC cables
- DC 2 in 1 connection enabled
- Q at night function



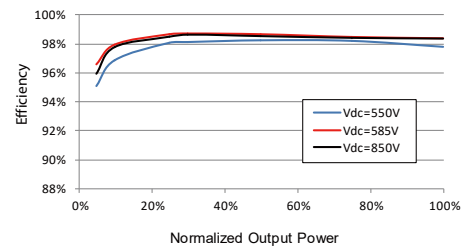
PROVEN SAFETY

- IP66 and C5 protection
- Type II SPD for both DC and AC
- Compliant with global safety and grid code

CIRCUIT DIAGRAM



EFFICIENCY CURVE



Type designation	SG110CX
Input (DC)	
Max. PV input voltage	1100 V
Min. PV input voltage / Startup input voltage	200 V / 250 V
Nominal PV input voltage	585 V
MPP voltage range	200 – 1000 V
MPP voltage range for nominal power	550 – 850 V
No. of independent MPP inputs	9
Max. number of PV strings per MPPT	2
Max. PV input current	26 A * 9
Max. current for input connector	30 A
Max. DC short-circuit current	40 A * 9
Output (AC)	
AC output power	110 kVA @ 45 °C / 100 kVA @ 50 °C
Max. AC output current	158.8 A
Nominal AC voltage	3 / N / PE, 400 V
AC voltage range	320 – 460V
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % In
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / connection phases	3 / 3
Efficiency	
Max. efficiency	98.7 %
Euro. efficiency	98.5 %
Protection	
DC reverse connection protection	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
Grid monitoring	Yes
Ground fault monitoring	Yes
DC switch	Optional
AC switch	No
PV String current monitoring	Yes
PID recovery function	Yes
Overvoltage protection	DC Type II / AC Type II
General Data	
Dimensions (W*H*D)	1051*660*362.5 mm
Weight	89 kg
Isolation method	Transformerless
Ingress protection rating	IP66
Night power consumption	< 2 W
Operating ambient temperature range	-30 to 60 °C (> 50 °C derating)
Allowable relative humidity range (non-condensing)	0 – 100 %
Cooling method	Smart forced air cooling
Max. operating altitude	4000 m (> 3000 m derating)
Display	LED, Bluetooth+APP
Communication	RS485 / Optional: Wi-Fi, Ethernet
DC connection type	MC4 (Max. 6 mm ²)
AC connection type	OT / DT terminal (Max. 240 mm ²)
Compliance	IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, VDE-AR-N 4110:2018, VDE-AR-N 4120:2018, IEC 61000-6-3, EN 50549, AS/NZS 4777.2:2015, CEI 0-21, VDE 0126-1-1/A1 VFR 2014, UTE C15-712-1:2013, DEWA
Grid Support	Q at night function, LVRT, HVRT, active & reactive power control and power ramp rate control

*: Only compatible with Sungrow logger and iSolarCloud



Multi-MPPT String Inverter for 1000 Vdc System



HIGH YIELD

- Up to 5 MPPTs with max. efficiency 98.7%
- Compatible with bifacial module
- Built-in PID recovery function



SMART O&M

- Touch free commissioning and remote firmware upgrade
- Online IV curve scan and diagnosis*
- Fuse free design with smart string current monitoring



LOW COST

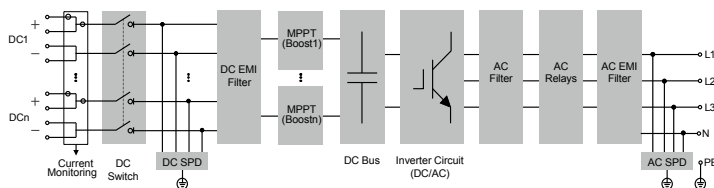
- Compatible with Al and Cu AC cables
- DC 2 in 1 connection enabled
- Cable free communication with optional Wi-Fi



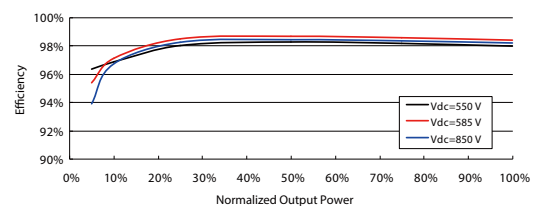
PROVEN SAFETY

- IP66 and C5 anti-corrosion grade
- Type II SPD for both DC and AC
- Satisfied global safety and grid code

CIRCUIT DIAGRAM



EFFICIENCY CURVE



Type designation	SG50CX
Input (DC)	
Max. PV input voltage	1100 V
Min. PV input voltage / Start-up input voltage	200 V / 250 V
Nominal PV input voltage	585 V
MPP voltage range	200 – 1000 V
MPP voltage range for nominal power	550 – 850V
No. of independent MPP inputs	5
Max. number of PV strings per MPPT	2
Max. PV input current	130 A
Max. current for input connector	30 A
Max. DC short-circuit current	200 A
Output (AC)	
AC output power	50 kVA @ 45 °C, 400Vac / 55 kVA @ 40 °C, 400Vac 50 kVA @ 50 °C, 415Vac / 55 kVA @ 45 °C, 415Vac
Max. AC output current	83.6A
Nominal AC voltage	3 / N / PE, 230 / 400 V
AC voltage range	312 – 528 V
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % In
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / connection phases	3 / 3
Efficiency	
Max. efficiency / European efficiency	98.7% / 98.4%
Protection	
DC reverse connection protection	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
Grid monitoring	Yes
DC switch	Optional
AC switch	No
PV String current monitoring	Yes
Q at night	Yes
PID recovery function	Yes
Overvoltage protection	DC Type II / AC Type II
General Data	
Dimensions (W*H*D)	782*645*310mm
Weight	62 kg
Isolation method	Transformerless
Degree of protection	IP66
Night power consumption	≤2 W
Operating ambient temperature range	-30 to 60 °C
Allowable relative humidity range (non-condensing)	0 – 100 %
Cooling method	Smart forced air cooling
Max. operating altitude	4000 m (> 3000 m derating)
Display	LED, Bluetooth+APP
Communication	RS485 / Optional: Wi-Fi, Ethernet
DC connection type	MC4 (Max. 6 mm ²)
AC connection type	OT or DT terminal (Max.70 mm ²)
Compliance	IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, VDE-AR-N 4105:2018, VDE-AR-N 4110:2018, IEC 61000-6-3, EN 50549, AS/NZS 4777.2:2015, CEI 0-21, VDE 0126-1-1/A1 VFR 2014, UTE C15-712-1:2013, DEWA
Grid Support	Q at night function, LVRT, HVRT, active & reactive power control and power ramp rate control

*: Only compatible with Sungrow logger and iSolarCloud



Multi-MPPT String Inverter for 1000 Vdc System



HIGH YIELD

- 3 MPPTs with max. efficiency 98.6%
- Compatible with bifacial module
- Built-in PID recovery function



SMART O&M

- Touch free commissioning and remote firmware upgrade
- Online IV curve scan and diagnosis*
- Fuse free design with smart string current monitoring



LOW COST

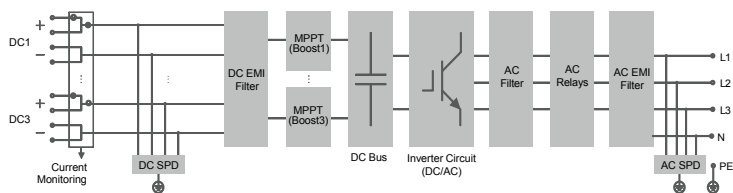
- Compatible with Al and Cu AC cables
- DC 2 in 1 connection enabled
- Cable free communication with optional Wi-Fi



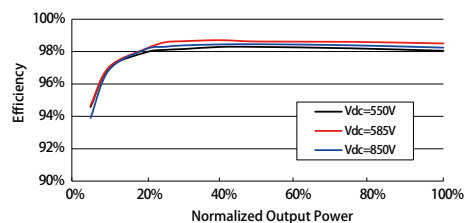
PROVEN SAFETY

- IP66 and C5 anti-corrosion grade
- Type II SPD for both DC and AC
- Satisfied global safety and grid code

CIRCUIT DIAGRAM



EFFICIENCY CURVE



Type designation	SG30CX
Input (DC)	
Max. PV input voltage	1100 V
Min. PV input voltage / Start-up input voltage	200V / 250 V
Nominal PV input voltage	585 V
MPP voltage range	200 – 1000 V
MPP voltage range for nominal power	550 – 850 V
No. of independent MPP inputs	3
Max. number of PV strings per MPPT	2
Max. PV input current	78 A
Max. current for input connector	30 A
Max. DC short-circuit current	120 A
Output (AC)	
AC output power	29.9 KVA
Max. AC output current	43.15 A
Nominal AC voltage	3 / N / PE, 230 / 400 V
AC voltage range	312 – 528 V
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % I _n
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / connection phases	3 / 3
Efficiency	
Max. efficiency	98.6 %
European efficiency	98.3 %
Protection	
DC reverse connection protection	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
Grid monitoring	Yes
DC switch	Optional
AC switch	No
PV String current monitoring	Yes
Q at night	Yes
PID recovery function	Yes
Overvoltage protection	DC Type II / AC Type II
General Data	
Dimensions (W*H*D)	702*595*310mm
Weight	50 kg
Isolation method	Transformerless
Degree of protection	IP66
Night power consumption	≤2 W
Operating ambient temperature range	-30 to 60 °C (> 45 °C derating)
Allowable relative humidity range (non-condensing)	0 – 100 %
Cooling method	Smart forced air cooling
Max. operating altitude	4000 m (> 3000 m derating)
Display	LED, Bluetooth+APP
Communication	RS485 / Optional: Wi-Fi, Ethernet
DC connection type	MC4 (Max. 6 mm ²)
AC connection type	OT or DT terminal (Max.70 mm ²)
Compliance	IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, IEC 61000-6-3, AS / NZS 4777.2:2015
Grid Support	Q at night function, LVRT, HVRT, active & reactive power control and power ramp rate control

*: Only compatible with Sungrow logger and iSolarCloud



SG15KTL-M/SG20KTL-M

SUNGROW

Multi-MPPT String Inverter for 1000 Vdc System



HIGH YIELD

- Industry leading efficiency of 98.6%
- Flexible PV string configurations with DC/AC ratio up to 1.3



SMART MANAGEMENT

- Feature-rich online monitoring via App or Web
- Over-the-air firmware updates
- Gain energy flow transparency with Sungrow smart meter
- Accurate dynamic feed-in control



SAFE AND DURABLE

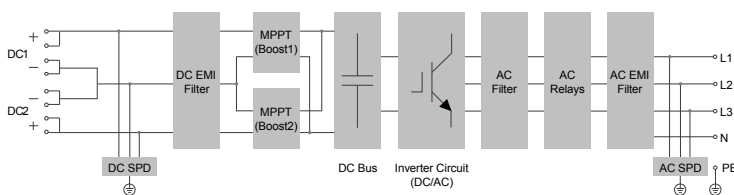
- Built-in surge arresters and residual current protection
- High anti-corrosion rating at C5



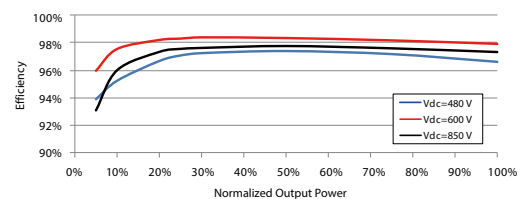
EASY AND USER FRIENDLY

- 24kg compact design
- Mounting plate with built-in level
- Fast and easy commissioning via App

CIRCUIT DIAGRAM



EFFICIENCY CURVE



Type designation	SG15KTL-M	SG20KTL-M
Input (DC)		
Max. PV input voltage	1100 V	
Min. PV input voltage / Start-up input voltage	200 V / 250 V	
Nominal PV input voltage	600 V	
MPP voltage range	200 V – 1000 V	
MPP voltage range for nominal power	380 V – 850 V	480 V – 850 V
No. of independent MPP inputs	2	
Max. number of PV strings per MPPT	2	
Max. PV input current	44 A (22 A / 22 A)	
Max. current for input connector	15 A	
Max. DC short-circuit current	60 A (30 A / 30 A)	
Output (AC)		
AC output power	16.5 kVA @ 35 °C / 15 kVA @ 45 °C	22 kVA @ 35 °C / 20 kVA @ 45 °C
Max. AC output current	24.0 A	31.9 A
Nominal AC voltage	3 / N / PE, 230 / 400 V	
AC voltage range	270 V – 480 V	
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz	
THD	< 3 % (at nominal power)	
DC current injection	< 0.5 % I _n	
Power factor at nominal power	> 0.99	
Adjustable power factor	0.8 leading – 0.8 lagging	
Feed-in phases / Connection phases	3 / 3	
Efficiency		
Max. efficiency / Euro. efficiency	98.6 % / 98.3 %	
Protection		
LVRT	Yes	
DC reverse connection protection	Yes	
AC short-circuit protection	Yes	
Leakage current protection	Yes	
Grid monitoring	Yes	
DC switch	Optional	
AC switch	No	
PV string current monitoring	Yes	
PID recovery function	Optional	
Overvoltage protection	DC Type II / AC Type II	
General Data		
Dimensions (W*H*D)	370*485*210 mm	
Weight	24 kg	
Isolation method	Transformerless	
Degree of protection	IP65	
Night power consumption	< 1 W**	
Operating ambient temperature range	-25 to 60 °C (> 45 °C derating)	
Allowable relative humidity range	0 – 100 % (non-condensing)	
Cooling method	Smart forced air cooling	
Max. operating altitude	4000 m (> 3000 m derating)	
Display / Communication	LED, Bluetooth + APP / RS485 (Optional: WiFi / Ethernet)	
DC connection type	MC4 (Max. 6 mm ²)	
AC connection type	Plug and play connector (Max. 16 mm ²)	
Compliance	EN 62109-1, EN 62109-2, EN 61000-3-11, EN 61000-3-12, IEC 61727, IEC 62116, IEC 60068, IEC 61683, EN 50530, VDE-AR-N 4105:2018, AS/NZS 4777.2, CEI 0-21, UNE 206007-1, G59/3, VDE 0126-1-1/A1 VFR 2014, UTE C15-712-1, EN 50549-1:2019, EN 50438	
Grid support	Active & reactive power control and power ramp rate control	
Type designation	SG15KTL-M	SG20KTL-M

**Deluxe Version: < 3W (DC & AC power supply)



ST556KWH-200UD **New**

SUNGROW

Storage System



HIGH INTEGRATION

- Highly integrated ESS with outdoors cabinet design provides high protection class
- Advanced integration technology ensures optimal system performance and lower cost



SAFE AND RELIABLE

- DC electric circuit safety management includes fast breaking and anti-arc protection
- Multi-state monitoring and linkage actions ensure battery system safety



EFFICIENT AND FLEXIBLE

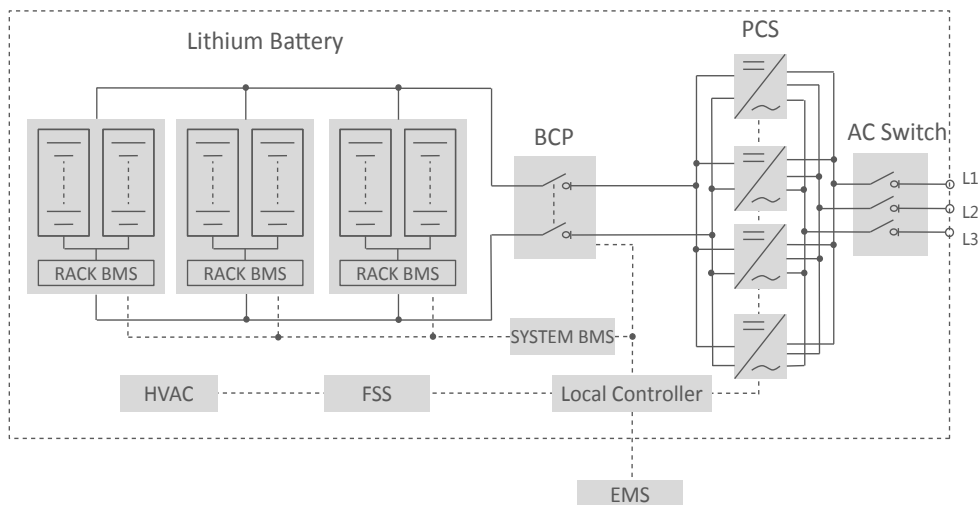
- Top-mounted HVAC and cell-level temperature control ensures longer battery life cycle
- Modular design supports parallel connection and easy system expansion



SMART AND FRIENDLY

- Integrated local controller enables single point of communication interface
- Fast state monitoring and faults record enables pre-alarm and faults location

CIRCUIT DIAGRAM



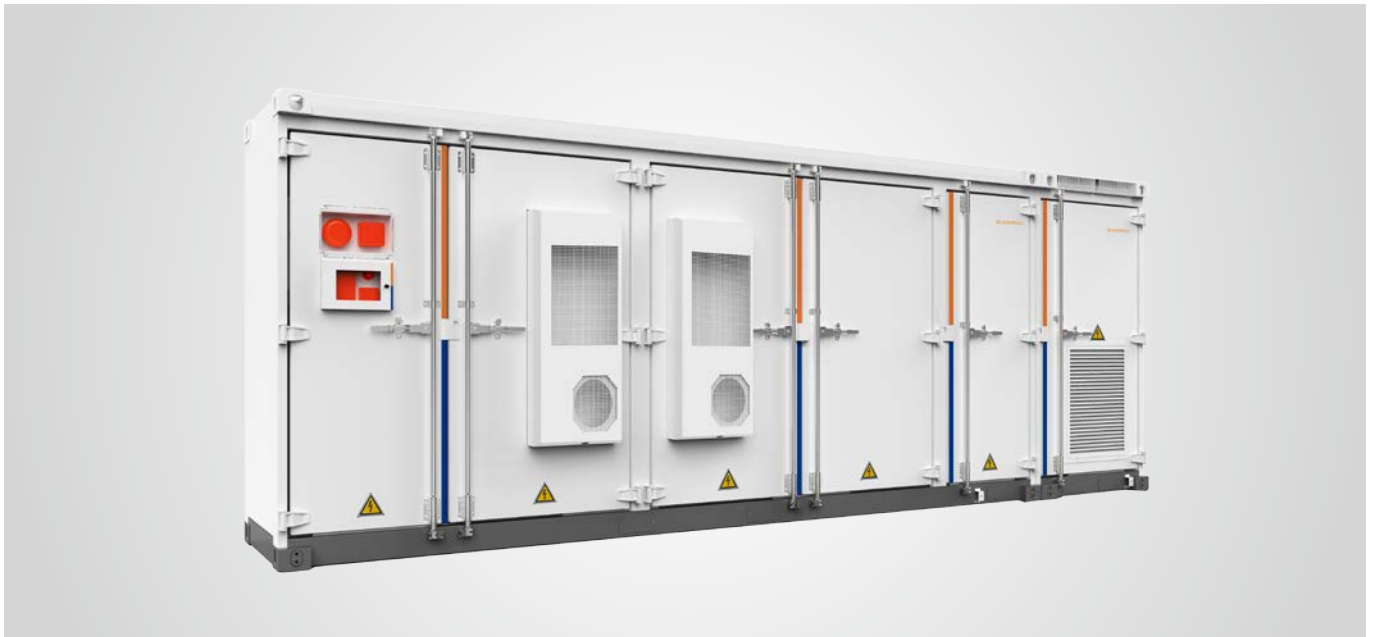
System Type	ST556KWH-200UD
Battery Data	
Cell type	Samsung SDI Mega E3, 3.68 V / 100 Ah
Configuration of system	252S6P
Battery capacity (BOL)	556 kWh
Battery voltage range	806 ~ 1,046 V
BMS communication interfaces	RS485, Ethernet
BMS communication protocols	Modbus RTU, Modbus TCP
AC Data	
Nominal AC power	200 kVA
Max. AC power	220 kVA
Max.THDr of current	< 3 % (at nominal power)
DC component	< 0.5 % (at nominal power)
Nominal grid voltage	400 V
Grid voltage range	360 ~ 440 V
Power factor	> 0.99 (at nominal power)
Adjustable power factor	1 leading ~ 1 lagging
Nominal grid frequency	50 Hz
Grid frequency range	45 ~ 55 Hz
Isolation method	Transformerless
Nominal output voltage of off-grid	400 V
Max.THDr of off-grid output voltage	< 3 % (linear load)
General Data	
Dimensions (W * H * D)	4,600 * 2,400 * 1,000 mm / 181.1" * 94.5" * 39.4"
Weight (with / without battery)	5.7 T / 2.5 T 12,566 lbs / 5,511 lbs
Degree of protection	IP54 / NEMA 3R
Operating temperature range	-30 to 50 °C / -22 to 122 °F
Relative humidity	0 ~ 95 % (non-condensing)
Max. working altitude	3,000 m / 9,842 ft
Cooling concept of battery chamber	Heating, Ventilation and Air Conditioning
Cooling concept of PCS chamber	Temperature controlled forced air cooling
Fire suppression system of battery unit	Novecl230 extinguishment system
Communication interfaces	RS485, Ethernet
Communication protocols	Modbus RTU, Modbus TCP, IEC 104
Compliance	AS4777.2 / AS62040.1.1



ST548KWH-250

SUNGROW

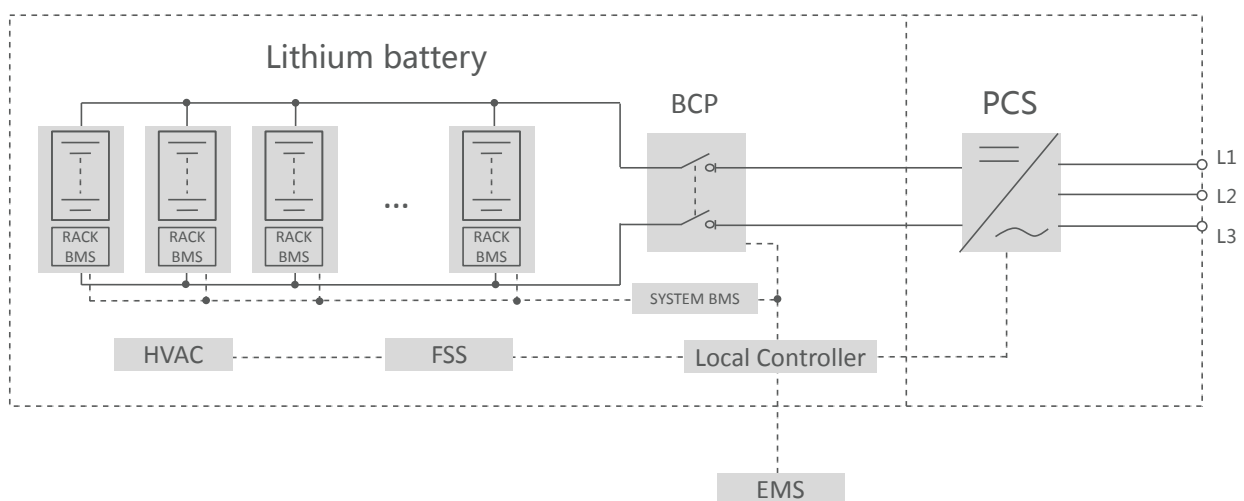
Storage System



SYSTEM FEATURES

- Side-by-side design for flexible system arrangement on site
- High efficiency system integrated with reliable lithium battery
- Integrated with local controller to enable unified communication
- Pre-installed HVAC and FSS to ensure safety and maximize efficiency
- Support on/off grid operation modes

CIRCUIT DIAGRAM



System Type	ST548KWH-250
Battery Data	
Cell type	Samsung SDI Mega E2, 3.68V / 94Ah
Configuration of system	198S8P
Battery capacity (BOL)	548 kWh
Battery voltage range	633 – 822 V
BMS communication interfaces	RS485, Ethernet
BMS communication protocols	Modbus RTU, Modbus TCP
AC Data	
Nominal AC power	250 kVA
Max. AC power	275 kVA
Max.THD of current	< 3 % (at nominal power)
DC component	< 0.5 % (at nominal power)
Nominal grid voltage	400 V
Grid voltage range	310 – 450 V
Power factor	> 0.99 (at nominal power)
Adjustable power factor	0.9 leading – 0.9 lagging
Nominal grid frequency	50 Hz
Grid frequency range	45 – 55 Hz
Isolation method	Transformer
Nominal output voltage of off-grid	400 V
Max.THD of off-grid output voltage	< 3 % (linear load)
General Data	
Dimensions of PCS unit (W * H * D)	1,200 * 2,440 * 1,100 mm / 47.2" * 96.1" * 43.3"
Dimensions of battery unit (W * H * D)	5,380 * 2,440 * 1,182 mm / 211.8" * 96.1" * 46.5"
Weight of PCS unit	2.4 T / 5,291 lbs
Weight of battery unit (with / without battery)	7.5 T / 3.8 T 16,535 lbs / 8,378 lbs
Degree of protection	IP54 / NEMA3R
Operating temperature range	-30 to 50 °C / -22 to 122 °F
Relative humidity	0 – 95 % (non-condensing)
Max. working altitude	3,000 m / 9,842 ft
Cooling concept of battery chamber	Heating, Ventilation and Air Conditioning
Cooling concept of PCS chamber	Temperature controlled forced air cooling
Fire suppression system of battery unit	Aerosol extinguishment system
Communication interfaces	RS485, Ethernet
Communication protocols	Modbus RTU, Modbus TCP, IEC 104
Compliance	AS4777.2 / AS62040.1.1



ST343KWH-100

Storage System



HIGH INTEGRATION

- Highly integrated energy storage system for easy transportation and O&M
- Advanced integration technology ensures optimal system performance and lower cost



SAFE AND RELIABLE

- DC electric circuit safety management includes fast breaking and anti-arc protection
- Multi-state monitoring and linkage actions ensure battery system safety



EFFICIENT AND FLEXIBLE

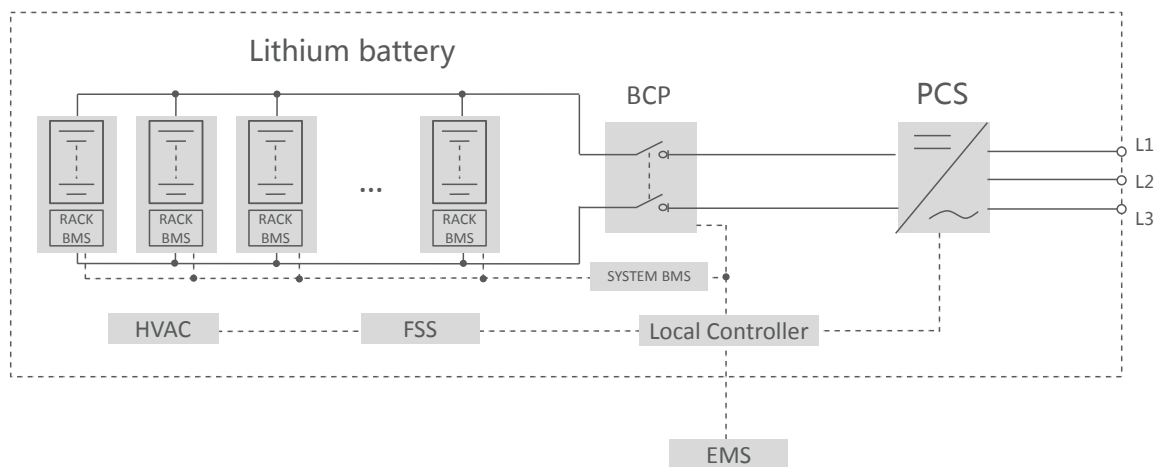
- Intelligent cell-level temperature control ensures higher efficiency and longer battery cycle life
- Modular design supports parallel connection and easy system expansion



SMART AND FRIENDLY

- Integrated local controller enables single point of communication interface
- Fast state monitoring and faults record enables pre-alarm and faults location

CIRCUIT DIAGRAM



System Type	ST343KWH-100
DC Data	
Cell type	Samsung SDI Mega E2, 3.68V / 94Ah
Configuration of system	198S5P
Battery capacity (BOL)	343 kWh
Battery voltage range	633 – 822 V
BMS communication interfaces	RS485, Ethernet
BMS communication protocols	Modbus RTU, Modbus TCP
AC Data	
Nominal AC power	100 kVA
Max. AC power	110 kVA
Max.THDr of current	< 3 % (at nominal power)
DC component	< 0.5 % (at nominal power)
Nominal grid voltage	400 V
Grid voltage range	310 – 450 V
Power factor	> 0.99 (at nominal power)
Adjustable power factor	0.9 leading – 0.9 lagging
Nominal grid frequency	60 Hz
Grid frequency range	55 – 65 Hz
Isolation method	Transformer
Nominal output voltage of off-grid	400 V
Max.THDr of off-grid output voltage	< 3 % (linear load)
General Data	
Dimensions (W * H * D)	2,991 * 2,591 * 2,438 mm / 117.6" * 102.0" * 96.0"
Weight (with & without battery)	7.3 T / 4.8 T 17,417 lbs / 10,582 lbs
Degree of protection	IP54
Operating temperature range	-30 to 50 °C / -22 to 122 °F
Relative humidity	0 – 95 % (non-condensing)
Max. working altitude	3,000 m / 9,842 ft
Cooling concept of battery chamber	Heating, Ventilation and Air Conditioning
Cooling concept of PCS chamber	Temperature controlled forced air cooling
Fire suppression system of battery unit	Aerosol extinguishment system
Communication interfaces	RS485, Ethernet
Communication protocols	Modbus RTU, Modbus TCP, IEC 104
Compliance	SGSF



Smart Communication Box



FLEXIBLE NETWORKING

- Support of RS485, Ethernet, Optical Fiber Ethernet switch and WiFi communication
- Support of energy meter, meteor station, sensors and other equipment



CONVENIENT O&M

- Inverter batch parameter settings and firmware updates
- PV-Plant maintenance via remote Web access for optimized OPEX
- Active and reactive power control
- Local monitoring



EASY OPERATION

- Embedded Web portal, easy to commissioning
- Robust enclosure, easy to install

Type designation	COM100 (Utility)	COM100 (C&I)
Communication		
Max. number of devices	200	30
RS485 interface	6	3
Ethernet	2 * RJ45, 10 / 100 Mbps	1 * RJ45, 10 / 100 / 1000 Mbps
Digital input	16, Max. 24 VDC	5, Max. 24 VDC
Analog input	2, PT100 / PT1000 4, support 4 – 20 mA or 0–10 VDC	4, support 4 – 20 mA or 0–10 VDC
Fiber Ethernet Switch	2 Fiber ports and 6 Ethernet ports	/
Wireless communication		
WiFi communication	/	Yes
Power supply		
AC input	110 VAC – 240 VAC (50 / 60 Hz)	100 VAC – 277 VAC (50 / 60 Hz)
Power consumption	Typ. 20 W, Max. 30 W	Typ. 20 W, Max. 30 W
Night light for maintenance	/	<1 W
Ambient conditions		
Operating Temperature	-20 °C – 60 °C	-30 °C – 60 °C
Storage Temperature	-30 °C – 70 °C	-40 °C – 80 °C
Relative air humidity	≤95 % (non-condensing)	≤95 % (non-condensing)
Elevation	≤3000 m	≤4000 m
Protection class	IP65	IP66
Mechanical parameters		
Dimensions (W * H * D)	570 * 790 * 90 mm	460 * 315 * 126 mm
Weight	32 kg	6 kg
Mounting type	Wall mounted, ground mounted	Wall mounted, outdoor and indoor
Box material	Metal	PC
Ordering information		
COM100A	The COM100A includes Logger3000, PLC, Ethernet Switch, SPD Apply to Global	
COM100E	The COM100E includes Logger1000B and support of WiFi wireless communication Apply to Global	





FLEXIBLE NETWORKING

- Support of RS485, Ethernet, WiFi communication
- Support of energy meter, meteo station, sensors and other equipment access



CONVENIENT O&M

- Inverter batch parameter setting and firmware updates
- Plant maintenance by remote Web access, optimized OPEX
- Active and reactive power control
- Local monitoring



EASY OPERATION

- Automatic Modbus address distribution
- Built-in Web server for monitoring and configuration, by PC or smartphone browser; no APP required

Type designation	Logger1000
Communication	
Max. number of devices	30
Communication ports	
RS485 interface	3
Ethernet	1×RJ45, 10/100/1000 Mbps
Digital input	5, Max. 24V DC
Analog input	4, support 4~20 mA or 0~10 VDC
Wireless communication	
4G communication	LTE(FDD): B1, B3, B5, B8 / LTE(TDD): B38, B39, B40, B41 TD-SCDMA: B34, B39 / CDMA: BC0 GSM:900MHz / 1800MHz WCDMA:B1, B8
WiFi communication	802.11 b / g / n / ac HT20 / 40 / 80MHz 2.4GHz / 5GHz
Power Supply	
DC input	24 VDC, 1.2 A
DC output	24 VDC, 0.5 A
Power consumption	<10 W
Ambient conditions	
Operating Temperature	-30 °C ~ 60 °C
Storage Temperature	-40 °C ~ 80 °C
Relative air humidity	≤95 % (non-condensing)
Elevation	≤4000 m
Protection class	IP20
Mechanical parameters	
Dimensions (W * H * D)	200 mm * 110 mm * 60 mm
Weight	500 g
Mounting type	Top-hat rail mounting / wall mounting
Ordering information	
Logger1000A	Support of 4G and WiFi wireless communication Apply to China, India, Malaysia
Logger1000B	Support of WiFi wireless communication Apply to Global



LAN Communication Module



SMART AND FLEXIBLE

- Automatic network configuration with DHCP, transmission without configuration
- Stable data connection where wireless communication is not possible



SIMPLE AND EFFICIENT

- Support of remote operation and maintenance functions including remote firmware updates and parameter setting
- Plug and play, quick installation

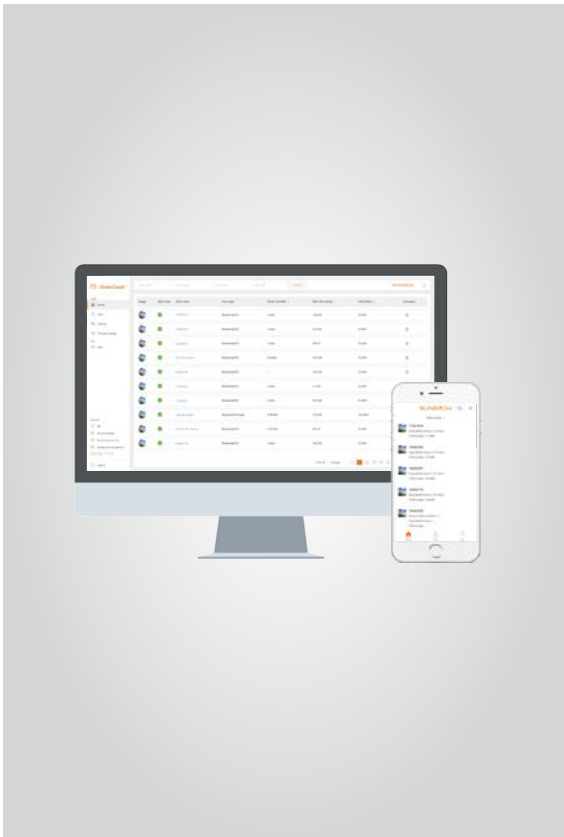


SAFE AND RELIABLE

- Wired transmission, safe and reliable
- IP65, wide temperature range

Type designation	E-Net
Basic data	
Max. number of supported devices	1
LED display	LED × 3
Configuration	Built-in Web server
Communication	
RS485	1 port
Ethernet	1×RJ45, 10/100 Mbps
Power supply	
Input voltage	5 VDC, 0.4 A
Power consumption	<2 W
Ambient conditions	
Operating temperature	-25 °C- 60 °C
Relative air humidity	≤95 % (non-condensing)
Elevation	≤4000 m
Protection class	IP65
Mechanical parameters	
Dimensions (W * H * D)	48 mm * 127 mm * 36 mm
Mounting type	Plug and Play

Online Monitoring Platform



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, devices automatic access
- Accurate positioning of faults, quick trouble shooting, real-time push of information, reducing time to resolve faults
- Parameter setting, firmware updates, IV curve diagnosis, data analysis and automated reports
- Support of plant maintenance by remote Web access of local data logger



FLEXIBLE AND FRIENDLY


- Centralized power plant management, optimized OPEX
- Flexible data access, Web portal and APP, remote or local maintenance
- Easy account management, share plants with co-workers and friends

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	5 minutes
General Data	
Language	Chinese, English, Japanese, German, French, Spanish, Portuguese, Italian, Dutch, Korean
Data storage time	>25 years
Storage capability	>100PB
System reliability	99.99%
Minimum Web requirements	
Browser	IE11, Chrome 56, Safari 11, Firefox 60
Resolution	1366 * 768, 1920 * 1080 recommended
Minimum Operating Environment for APP	
Minimum OS	Android 4.4, iOS 9.3
Resolution	1920 * 1080, 2001 * 1125, 1280 * 720



Global Reference Over 21.7 GW of String Inverters Installed Globally



18MW PV Plant in Dubai 



5 MW PV Plant Great Seabrook UK 



2.25 MW PV Plant USA 




6.5 MW PV Plant Spain 

Global Reference




500kW / 755kWh Micro-grid project, WA, Australia 




100kW / 411kWh Peak-shaving & Ramp rate control, Bundaberg, QLD, Australia 



250kW / 548kWh C&I, grid connected,  Adelaide, SA, Australia



68kW / 137kWh Peak-shaving, Ramp rate control & Backup,  Birchip, VIC, Australia



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