

Växeloriktare

Växeloriktaren anpassas efter kundens förutsättningar vid tidpunkt för installation.

Val av växeloriktare tas fram av ett projekteringsverktyg som räknar fram rätt dimension på växeloriktaren.

Växeloriktare mellan 3 - 20kW
10 års garanti

Växeloriktare från 30kW och uppåt
5 års garanti

SH5.0/6.0/8.0/10RT

Residential Hybrid Three Phase Inverter



FLEXIBLE APPLICATION

- 150–600V wide battery voltage range
- Supports parallel connection with master-slave controlling
- Provides 100% power to unbalance loads in backup mode



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



ENERGY INDEPENDENCE

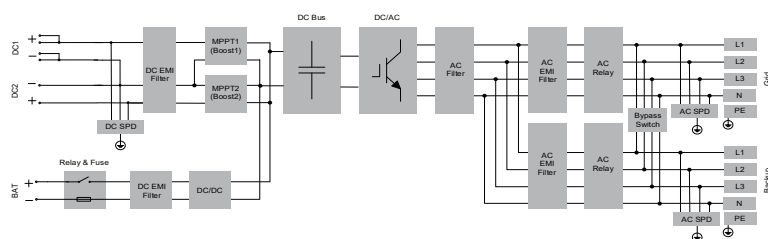
- Seamless transition to backup mode for protection against power outages
- Fast charging / discharging to meet the demand of higher consumption



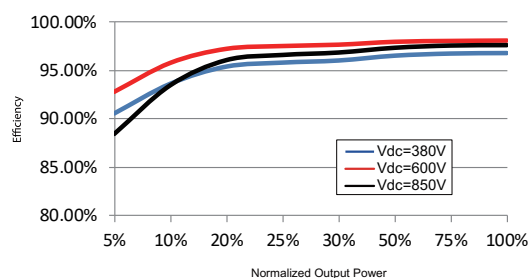
EASY INSTALLATION

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

CIRCUIT DIAGRAM



EFFICIENCY CURVE (SH5.0RT)



Type designation	SH5.0RT	SH6.0RT	SH8.0RT	SH10RT
PV Input				
Recommended max. PV input power	7500 W	9000 W	12000 W	15000 W
Max. PV input voltage	1000 V			
Startup voltage	180 V	250 V	250 V	250 V
Rated input voltage	600 V			
MPP voltage range	150 V – 950 V	200 V – 950 V	200 V – 950 V	200 V – 950 V
MPP voltage range for nominal power	210 V – 850 V	250 V – 850 V	330 V – 850 V	280 V – 850 V
No. of MPPTs	2			
Max. number of PV strings per MPPT	1 / 1	1 / 1	1 / 1	1 / 2
Max. PV input current	25A (12.5A / 12.5A)	25A (12.5A / 12.5A)	25A (12.5A / 12.5A)	37.5A (12.5A / 25A)
Max. current for input connector	30 A			
Short-circuit current of PV input	32 A (16 A / 16 A)	32 A (16 A / 16 A)	32 A (16 A / 16 A)	48 A (16 A / 32 A)
AC Input and Output				
Max. AC input power from grid	12500 W	15000 W	18600 W	20600 W
Rated AC output power	5000 W	6000 W	8000 W	10000 W
Max. AC output power	5000 VA	6000 VA	8000 VA	10000 VA
Rated AC output apparent power	5000 VA	6000 VA	8000 VA	10000 VA
Rated AC ouput current	7.3 A	8.7 A	11.6 A	14.5 A
Max. AC output current	7.6 A	9.1 A	12.1 A	15.2A
Rated AC voltage	3 / N / PE, 220 / 380 V; 230 / 400 V; 240 / 415 V			
AC voltage range	270 - 480V			
Rated grid frequency / Grid frequency range	50Hz / 45 - 55Hz			
THD	<3% (of rated power)			
DC current injection	<0.5% In			
Power factor	>0.99 / 0.8 leading to 0.8 lagging			
Protection & Function				
LVRT	Yes			
Anti-islanding protection	Yes			
AC short circuit protection	Yes			
Leakage current protection	Yes			
DC switch (solar)	No			
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 on grid port / Max. No. of inverters	Master-slave mode / 5 * (need same inverters type)			
Battery Data				
Battery type	Li-ion battery			
Battery voltage	150-600V			
Max charge / discharge current	30A ** / 30A **			
Max charge / discharge power	7500W / 6000W	9000 W / 7200 W	10600 W / 10600 W	10600 W / 10600 W
System Data				
Max. efficiency	98.0 %	98.2 %	98.4 %	98.4 %
European efficiency	97.2 %	97.5 %	97.9 %	97.9 %
Isolation method (solar / battery)	Transformerless / Transformerless			
Degree of protection	IP65			
Operating ambient temperature range	-25 °C – 60 °C			
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 4777.2:2020, EN50549-1, NRS 097-2-1, TOR Generator Type A			
Country of manufacture	China			
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, 220Vac / 230Vac / 240Vac			
Frequency range	50Hz / 60Hz			
Total hamonic factor output voltage (Linear load)	2%			
Switch time to emergency mode	<20ms			
Rated output power	5000 W / 5000 VA	6000 W / 6000 VA	8000 W / 8000 VA	10000 W / 10000 VA
Peak output power ***	6000 W / 6000 VA, 5min 10000 W / 10000 VA, 10s	7200 W / 7200 VA, 5min 10000 W / 10000 VA, 10s	12000 W / 12000 VA, 5min	12000 W / 12000 VA, 5min
Rated output current for backup load during on grid mode	3 * 18.5 A			

* 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 sufficient.

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
- Over-the-air firmware updates



SAFE AND DURABLE

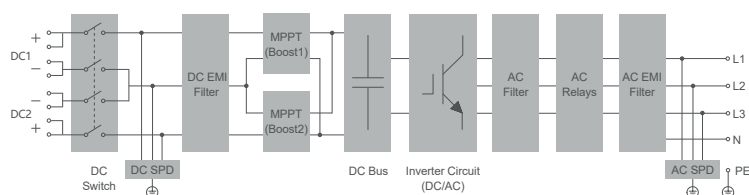
- Quick arc fault circuit interrupter
- Build-in Type II DC & AC SPD
- High anti-corrosion rating C5



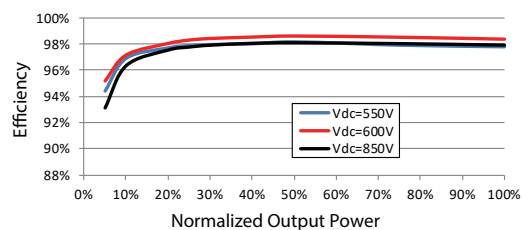
EASY AND USER FRIENDLY

- 21kg 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		180V / 180V	
Rated input voltage		600 V	
MPP voltage range		160V-1000V	
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)	
Max. current for DC connector		30 A	
Output (AC)			
Rated AC output power	15000 W	17000 W	20000 W
Max. AC output apparent 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 output current(at 230V)	21.7 A	24.6 A	29 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		180V – 276V / 311V - 478V	
Rated grid frequency		50 Hz / 60 Hz	
Grid frequency range		45 – 55 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		3 / 3	
Efficiency			
Max. efficiency		98.5%	
European efficiency		98.1%	
Protection&Function			
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	
Ground fault monitoring		Yes	
DC switch		Yes	
PV String current monitoring		Yes	
Arc fault circuit interrupter (AFCI)		Yes	
PID recovery function		Yes	
General Data			
Dimensions (W*H*D)		370*480*195 mm	
Weight		21 kg	
Mounting method		Wall-mounting bracket	
Topology		Transformerless	
Degree of protection		IP65	
Night power consumption		< 6 W	
Corrosion		C5	
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	
Display		LED	
Communication		WLAN / Ethernet / RS485 / DI / DO	
DC connection type		MC4 (Max. 6 mm ²)	
AC connection type		Plug and play	
Grid 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, UNE 206006/7 IN, MEA/PEA, G98, UNE 217002:2020, NTS V2 TypeA	
Grid Support		LVRT, HVRT, active & reactive power control and power ramp rate control	

*: 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.

** For Germany, max. AC output power: SG15RT is 15000VA, SG17RT is 17000VA, SG20RT is 20000VA.

SH15/20/25T

Hybrid Three Phase Inverter



FULL BACKUP

- Built-in 63 A bypass for whole home backup
- 10 ms seamless switch
- Peak output up to 36500 VA (10 s) in backup mode (SH25T)



FLEXIBLE APPLICATION

- Support 100 % unbalance output in backup and on grid mode
- Max. 16 A DC input current per string
- 50 A fast charge / discharge current



FRIENDLY INSTALLATION

- Plug & Play installation
- Quiet operation for indoor or outdoor installation



SAFE AND DURABLE

- Support precise AFCI
- IP65/C5



Type designation	SH15T		SH20T		SH25T	
Input (DC)						
Recommended max. PV input power	30000 Wp		40000 Wp		50000 Wp	
Max. PV input voltage *			1000 V			
Min. PV input voltage / Startup input voltage			150 V / 180 V			
Rated PV input voltage			600 V			
MPPT operating voltage range **			150 V - 950 V			
No. of independent MPP trackers			3			
No. of PV strings per MPPT			2 / 2 / 1			
Max. PV input current			80 A (32 A / 32 A / 16 A)			
Max. DC short-circuit current			100 A (40 A / 40 A / 20 A)			
Max. current for input connector			30 A			
Battery data						
Battery type			Li-ion battery			
Battery voltage range			100 V - 700 V			
Max. charge / discharge current ***			50 A / 50 A			
Max. charge / discharge power	30000 W / 15000 W		30000 W / 20000 W		30000 W / 25000 W	
Input and Output (AC)						
Max. AC power from grid ****			43000 VA			
Rated AC output power	15000 W		20000 W		25000 W	
Max. AC output apparent power	15000 VA		20000 VA		25000 VA	
Max. AC output current	22.8 A		30.4 A		37.9 A	
Rated AC voltage	3 / N / PE, 220 V / 380 V ; 230 V / 400 V; 240 V / 415 V					
AC voltage range	270 V - 480 V					
Rated grid frequency	50 Hz / 60 Hz					
Grid frequency range	45 Hz - 55 Hz / 55 Hz - 65 Hz					
Harmonic (THD)	< 3 % (of rated power)					
Power factor at rated power / Adjustable power factor	> 0.99 / 0.8 leading to 0.8 lagging					
Feed-in phases / connection phases	3 / 3-N-PE					
Backup data(on grid mode)						
Max. output power for backup load ****			43000 W			
Max. output current for backup load			3 * 63 A			
Backup data(off-grid mode)						
Rated voltage	3 / N / PE, 220 / 380 V; 230 / 400 V; 240 / 415 V (± 2 %)					
Rated frequency	50 Hz / 60 Hz (± 0.2 %)					
THDV (@Linear load)	2 %					
Backup switch time	< 10 ms					
Rated output power	15000 W / 15000 VA		20000 W / 20000 VA		25000 W / 25000 VA	
Peak output power *****	25500 W / 25500 VA ,10 s		32000 W / 32000 VA ,10 s		36500 W / 36500 VA ,10 s	
Efficiency						
Max. efficiency / European efficiency	98.1 % / 97.6 %				98.2 % / 97.8 %	
Protection & Function						
Grid monitoring	Yes					
DC reverse polarity protection	Yes					
AC short-circuit protection	Yes					
Leakage current protection	Yes					
DC switch (solar)	Yes					
Surge protection	DC Type II / AC Type II					
PID zero	Yes					
Battery input reverse polarity protection	Yes					
General data						
Topology (solar / battery)	Transformerless / Transformerless					
Degree of protection	IP65					
Dimensions (W * H * D)	620 mm * 480 mm * 245 mm					
Weight	38 kg				40 kg	
Mounting method	Wall-mounting bracket					
Operating ambient temperature range	-25 °C - 60 °C					
Allowable relative humidity range(Non-condensing)	0 % - 100 %					
Cooling method	Natural convection				Fan cooling	
Max. operating altitude	2000 m					
Noise(Typical)	35 dB (A)				50 dB (A)	
Display	LED					
Communication	RS485, WLAN, Ethernet, CAN					
DI / DO	DI * 4 / DO * 2 / DRM0					
DC connection type	MC4 compatible connector (PV,Max.6 mm²) /Plug and play connector (battery, Max.10 mm²)					
AC connection type	Plug and play connector (Max.16 mm²)					
Compliance	IEC / EN 62109, IEC 61000-6, EN 62477-1, IEC 61727, IEC 62116, IEC 62920, EN 55011, CISPR 11, VDE-AR-N-4105, EN 50549-1, NRS 097, AS/NZS 4777.2:2020, TOR Type A, R25, CFI 0-21					

* Input voltage exceeding the MPPT operating voltage range triggers inverter protection

** Please refer to the user manual for the full load MPPT voltage range

*** Depending on the connected battery

**** Please refer to the user manual and modify the settings based on actual load power

***** Can be reached only if PV and battery power is sufficient



SG33/40/50CX

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
- Smart IV Curve diagnosis *
- Fuse free design with smart string current monitoring

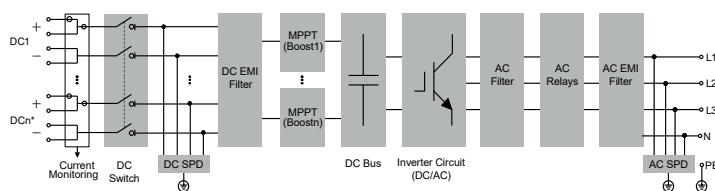
SAVED INVESTMENT

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

PROVEN SAFETY

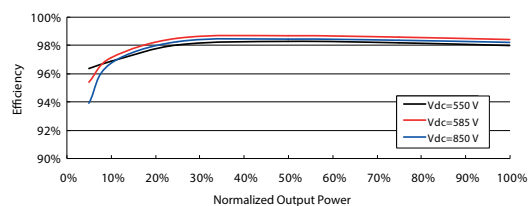
- IP66 and C5 anti-corrosion
- Type II SPD for both DC and AC, DC Type I+II Opt
- Satisfied global safety and grid code

CIRCUIT DIAGRAM



*: n=3(SG33CX)/4(SG40CX)/5(SG50CX)

EFFICIENCY CURVE



Type designation	SG33CX	SG40CX	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		
No. of independent MPP inputs	3	4	5
No. of PV strings per MPPT	2		
Max. PV input current	3 * 26 A	4 * 26 A	5 * 26 A
Max. DC short-circuit current	3 * 40 A	4 * 40 A	5 * 40 A
Output (AC)			
AC output power	33 kVA @45 °C, 400Vac / 36.3 kVA @ 40 °C, 400Vac 33 KVA @ 50 °C, 415Vac / 36.3 KVA @ 45 °C, 415Vac	40 kVA @ 45 °C, 400Vac / 44 kVA @ 40 °C, 400Vac 40 KVA @ 50 °C, 415Vac / 44 KVA @ 45 °C, 415Vac	50 kVA @45 °C, 400Vac / 55kVA @ 40 °C, 400Vac 50KVA @ 50 °C, 415Vac / 55kVA @ 45 °C,415Vac
Max. AC output current	55.2 A	66.9 A	83.6 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		
Harmonic (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 / AC connection	3 / 3		
Efficiency			
Max. efficiency / European efficiency	98.6 % / 98.3 %	98.6% / 98.3%	98.7% / 98.4%
Protection and Function			
DC reverse polarity protection	Yes		
AC short circuit protection	Yes		
Leakage current protection	Yes		
Grid monitoring	Yes		
Ground fault monitoring	Yes		
DC switch	Yes		
AC switch	No		
PV string monitoring	Yes		
Q at night function	Yes		
PID recovery function	Yes		
Arc fault circuit interrupter (AFCI)	Optional		
Overvoltage protection	DC Type II (optional: Type I + II) / AC Type II		
General Data			
Dimensions (W*H*D)	702*595*310mm	782*645*310mm	782*645*310mm
Weight	50 kg	58 kg	62 kg
Topology	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	0 – 100 %		
Cooling method	Smart forced air cooling		
Max. operating altitude	4000 m (> 3000 m derating)		
Display	LED, Bluetooth+APP		
Communication	RS485 / Optional: WLAN, 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 50549-1/2, AS/NZS 4777.2:2015, CEI 0-21 2019, CEI0-16 2019, VDE 0126-1-1/A1 VFR 2019, UTE C15-712-1:2013, DEWA, UNE 206007-1/RD 1699, UNE 217001, Israel certificate, G99		
Grid Support	Q at night function, LVRT, HVRT, active & reactive power control and power ramp rate control		

*: Only compatible with Sungrow logger, EyeM4 and iSolarCloud

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

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

SMART O&M

- Touch free commissioning and remote firmware upgrade
- Smart IV Curve diagnosis*
- Fuse free design with smart string current monitoring

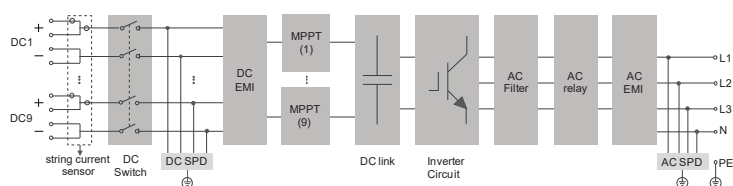
SAVED INVESTMENT

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

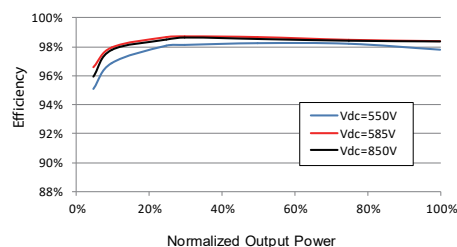
PROVEN SAFETY

- IP66 and C5 anti-corrosion
- Type II SPD for both DC and AC, DC Type I+II optional
- 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 / Start-up input voltage	200 V / 250 V
Nominal PV input voltage	585 V
MPP voltage range	200 – 1000 V
No. of independent MPP inputs	9
No. of PV strings per MPPT	2
Max. PV input current	26 A * 9
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
Harmonic (THD)	< 3 % (at nominal power)
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / AC connection	3 / 3-PE
Efficiency	
Max. efficiency	98.7 %
European efficiency	98.5 %
Protection and Function	
DC reverse polarity protection	Yes
AC short-circuit protection	Yes
Leakage current protection	Yes
Grid monitoring	Yes
Ground fault monitoring	Yes
DC switch	Yes
AC switch	No
PV string monitoring	Yes
Q at night function	Yes
PID recovery function	Yes
Arc fault circuit interrupter (AFCI)	Optional
Surge protection	DC Type II (optional: Type I + II) / AC Type II
General Data	
Dimensions (W*H*D)	1051*660*362.5 mm
Weight	89 kg
Topology	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	0 – 100 %
Cooling method	Smart forced air cooling
Max. operating altitude	4000 m (> 3000 m derating)
Display	LED, Bluetooth+APP
Communication	RS485 / Optional: WLAN, Ethernet
DC connection type	MC4 (max. 10 mm ² optional)
AC connection type	OT / DT terminal (Max. 240 mm ²)
Compliance	IEC 61209, IEC 61727, IEC 62116, IEC 60068, IEC 61683, VDE-AR-N 4110:2018, VDE-AR-N 4120:2018, EN 50549-1/2, AS/NZS 4777.2:2015, CEI 0-16 2019, VDE 0126-1-1/A1 VFR 2019, UTE C15-712-1:2013, DEWA, UNE 206007-1/RD 1699, UNE 217001, P.O. 12.3, Israel certificate, G99
Grid Support	Q at night function, LVRT, HVRT, active & reactive power control and power ramp rate control

*: Only compatible with Sungrow logger, EyeM4 and iSolarCloud

**:: 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.

SG125CX-P2

Multi-MPPT String Inverter for 1000 Vdc System



HIGH YIELD

- 12 MPPTs with max. efficiency 98.5%
- DC 15A current input, compatible with over 500W+ PV module
- Dynamic shading optimization mode



SMART O&M

- Key component diagnosis and protection
- Smart IV Curve Diagnosis
- Grid fault record function, easy for remote O&M



LOWER INVESTMENT

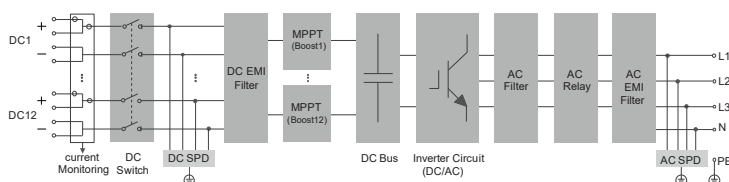
- Compatible max. 240mm² Al AC cables
- Drawer-style cable sealing plate support AC cable pre-assembly



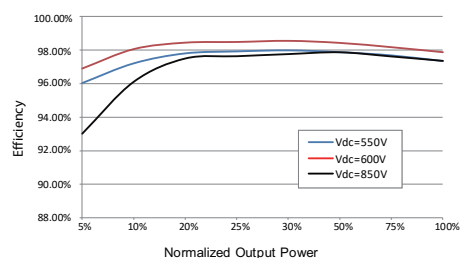
PROVEN SAFETY

- IP66 protection and C5 Anti-corrosion
- DC Type I+II SPD, AC Type II SPD
- Support AFCI 2.0 function

CIRCUIT DIAGRAM



EFFICIENCY CURVE



Type designation	SG125CX-P2
Input (DC)	
Recommended max. PV input power	175 kW
Max. PV input voltage	1100 V
Min. PV input voltage / Startup input voltage	180 V / 200 V
Rated PV input voltage	600 V
MPP voltage range	180 – 1000 V
No. of independent MPP inputs	12
No. of PV strings per MPPT	2
Max. PV input current	360 A (30 A *12)
Max. DC short-circuit current	480 A (40 A *12)
Max. current for DC connector	20A
Output (AC)	
Max. AC Output power	125 kVA
Rated AC output apparent power	125 kVA
Max. AC output current	181.1 A
Rated AC output current(at 230V)	181.1 A
Rated AC voltage	3 / N / PE, 230 / 400 V
AC voltage range	320 – 480V
Rated grid frequency	50 Hz / 60 Hz
Grid frequency range	45 – 55 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	3 / 3-N-PE
Efficiency	
Max. efficiency / European efficiency	98.5% / 98.3%
Protection	
Grid monitoring	Yes
DC reverse polarity protection	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
Surge protection	DC Type I + II / AC Type II
Ground fault monitoring	Yes
DC switch	Yes
PV string monitoring	Yes
Q at night function	Yes
Arc fault circuit interrupter (AFCI)	Yes
PID recovery function	Yes
General Data	
Dimensions (W*H*D)	1020*795*360mm
Mounting Method	Wall-mounting bracket
Weight	87 kg
Topology	Transformerless
Degree of protection	IP66
Corrosion	C5
Night power consumption	< 5 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: WLAN, Ethernet
DC connection type	Evo2 (Max. 6 mm ²)
AC connection type	OT / DT terminal (Max. 240 mm ²)
Grid Compliance	IEC 62109-1, EN/IEC 61000-6-1/2/3/4, IEC 61727, IEC 62116, EN 50549-1/2, UTE C15-712-1, VDE V 0126-1-1, VDE-AR-N 4105:2018, VFR 2019, NC RfG, G99, UNE 217002, NTS, CEI 0-21 2019, CEI0-16 2019, NRS-097-2-1
Grid Support	Q at night function, LVRT, HVRT, active & reactive power control and power ramp rate control



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