SG350HX

Multi-MPPT String Inverter for 1500 Vdc System



HIGH YIELD

- Up to 16 MPPTs with max. efficiency 99%
- 20A per string, compatible with 500Wp+ module
- Data exchange with tracker system, improving yield

GRID SUPPORT

CIRCUIT DIAGRAM

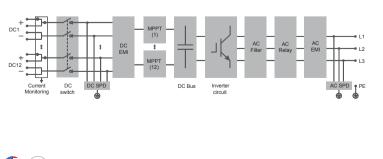
- SCR≥1.16 stable operation in extremely weak grid
- Reactive power response time <30ms
- Compliant with global grid code

LOW COST

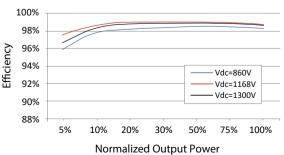
- Q at night function, save investment
- Power line communication (PLC)
- Smart IV Curve diagnosis,active O&M

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- PROVEN SAFETY
- 2 strings per MPPT, no fear of string reverse connection
- Integrated DC switch, automatically cut off the fault
- 24h real-time AC and DC insulation monitoring



EFFICIENCY CURVE





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Type designation	SG350HX
Input (DC)	
Max. PV input voltage	1500 V
Min. PV input voltage / Startup input voltage	500 V / 550 V
Nominal PV input voltage	1080 V
MPP voltage range	500 V - 1500 V
No. of independent MPP inputs	12 (optional: 16)
Max. number of input connector per MPPT	2
Max. PV input current	12 * 40 A (Optional: 16 * 30 A)
Max. DC short-circuit current per MPPT	60 A
Output (AC)	
AC output power	352 kVA @ 30°C / 320 kVA @40 °C / 295 kVA @50°C
Max. AC output current	254 A
Nominal AC voltage	3 / PE, 800 V
AC voltage range	640 - 920V
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	575
Max. efficiency / European efficiency / CEC efficiency	99.02 % / 98.8 % / 98.5%
Protection	33.02 /07 30.0 /07 90.3 /0
	Yes
DC reverse connection protection AC short circuit protection	Yes
	Yes
Leakage current protection	
Grid monitoring	Yes
Ground fault monitoring	Yes
DC switch / AC switch	Yes / No
PV string current monitoring	Yes
Q at night function	Yes
Anti-PID and PID recovery function	Optional
Surge protection	DC Type II / AC Type II
General Data	
Dimensions (W*H*D)	1136 * 870 * 361 mm (44.7'' * 34.3'' * 14.2'')
Weight	≤116 kg(≤255.7 lbs)
Isolation method	Transformerless
Degree of protection	IP66 (NEMA 4X)
Power consumption at night	< 6 W
Operating ambient temperature range	-30 to 60°C(-22 to 140 °F)
Allowable relative humidity range	0 – 100 %
Cooling method	Smart forced air cooling
Max. operating altitude	4000 m (> 3000 m derating) / 13123 ft (> 9843 ft derating)
Display	LED, Bluetooth+APP
Communication	RS485 / PLC
DC connection type	MC4-Evo2 (Max. 6 mm², optional 10mm² / Max. 10AWG, optional 8AWG)
AC connection type	Support OT/DT terminal (Max. 400 mm² / 789 Kcmil)
Compliance	IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, VDE-AR-N 4110:2018,
	VDE-AR-N 4120:2018, EN 50549-1 /2, UNE 206007-1:2013, P.O.12.3, UTE C15-
	712-1:2013, UL1741, UL1741SA, IEEE1547, IEEE1547.1, CSA C22.2 107.1-01-2001,
	California Rule 21, UL1699B
Grid Support	Q at night function, LVRT, HVRT,active & reactive power control and
	power ramp rate control, Q-U control, P-f control

