Sigma Solar Inverter

Grid-tied PV String Inverter 125kW

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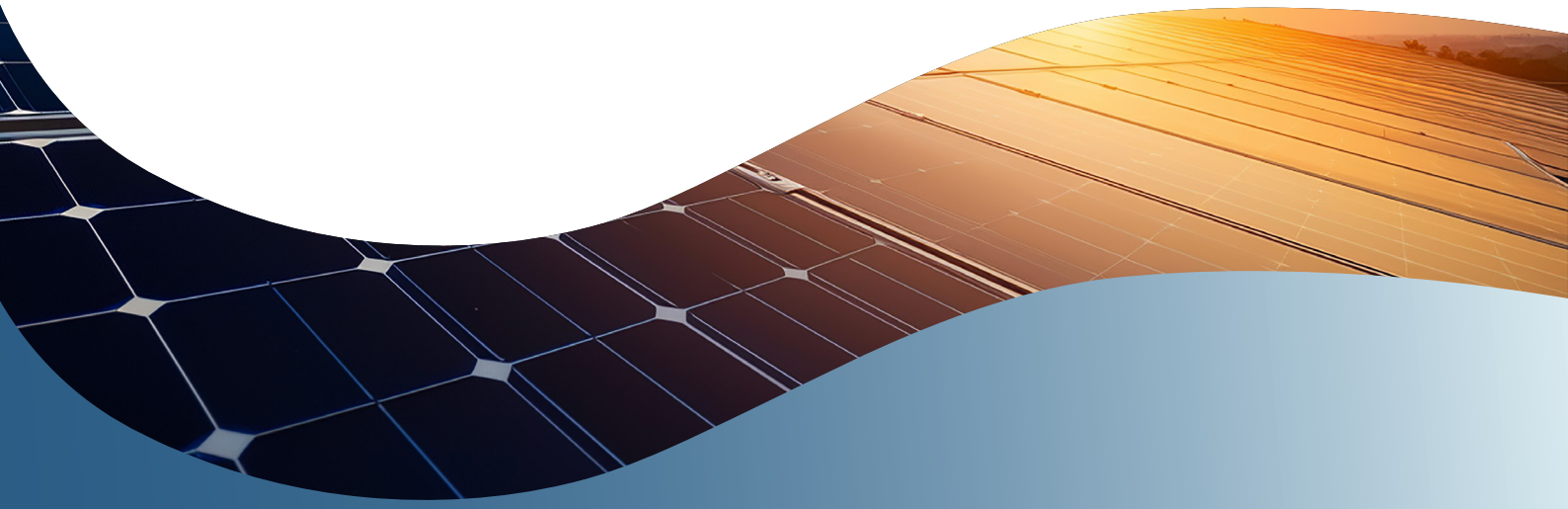
solar manufacturers and wholesalers



Product Description:

This high-performance solar inverter delivers exceptional efficiency, reliability, and smart energy management for commercial and industrial solar systems. With up to 98.8% efficiency, 9 MPPTs, and compatibility with large PV modules, it maximizes energy harvest and system performance. Its IP66-rated protection, fuse-free design, and advanced monitoring features ensure reliable operation, while remote configuration, mobile app commissioning, and string-level current detection simplify maintenance and system management.



Key Features

- **Superior Performance**
  - Maximum efficiency of 98.8%
  - Large string current, compatible with large PV modules
  - 9 MPPT, fuse-free design technology
  - Up to 150% PV Configuration
- **High Reliability**
  - IP66 protection level for outdoor installation
  - Replaceable DC/AC Type II SPD
  - Smart cooling technology
  - 5 year warranty (extendable to 10years)
- **Intelligent Maintenance**
  - Power consumption monitoring
  - Remote configuration and upgrades
  - Quick commissioning via mobile app
  - String level current detection

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Model	SIN125KTL-M3
Efficiency	
Max. Efficiency	98.8%
European Efficiency	98.2%
Input (PV)	
Max. Input Voltage	1100V
Max. PV Configuration (STC)	150%
Rated Input Voltage	620V
Max. Input Current	6*32A/3*40A
Max. Short Circuit Current	6*45A/3*50A
Start Input Voltage/Min. Operating Voltage	250V/200V
MPPT Operating Voltage Range	200V-1000V
Max. Number of PV Strings	9*2
No. of MPPTs	9
Output (Grid)	
Rated AC Active Power	125kW
Max. AC Apparent Power	125kVA
Max. AC Output Current	3*181A
Rated AC Voltage	380V/400V, 3W+N+PE
AC Voltage Range (1)	320V-520V (Adjustable)
Rated Grid Frequency	50Hz/60Hz
Grid Frequency Range (2)	45Hz-55Hz/55Hz-65Hz (Adjustable)
THDI	<3%@Rated Power
DC Current Injection	<0.5%@Rated Current
Power Factor	>0.99@Rated power (Adjustable 0.8 LD - 0.8 LG)
Protection	
DC Switch	Yes
Anti-Islanding Protection	Yes
AC Overcurrent Protection	Yes
AC Short Circuit Protection	Yes
DC Reverse Protection	Yes
Surge Arrester	DC Type II/AC Type II
Insulation Detection	Yes
Leakage Current Protection	Yes
AFCI 2.0	Optional
PID Recovery	Optional
PV String Monitoring	Yes
Consumption Monitoring	Optional
General	
Topology	Transformerless
IP Rating	IP66
Night Self Consumption	<10W (Standard)
Cooling Method	Smart Cooling
Operating Temperature Range	-25°C~60°C
Relative Humidity Range	0-100%
Max. Operating Altitude	4000m
Dimensions (W*H*D)	936mm*678mm*365mm
Weight	92kg
HMI & COM	
Display	LED + Wireless & APP
Communication Interface	RS485: Wi-Fi
Certification	
Safety	IEC 62109-1, IEC 62109-2
Grid Code	EN 50549-1/-2, IEC 61727/62116, VDE-AR-N 4105, CEI 0-21/16,
	UNE 206006/206007-1, UNE 217001
Warranty	5 Years (Extendable to 10 Years)