Noark
A CHNT Company

Noark Version Ⅱ | 2023

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Noark
A CHNT Company

Ex9N-G
On-Grid String Inverter

Noark 诺雅克

Noark Overview

Shanghai Noark Electric is a global Company, making great efforts in the fields of R & D, manufacturing and sales of intelligent electrical systems, focusing on power, construction, new energy, rail transit, data center, digital currency and other industries. Noark has provided hundreds of high-end Customers in the industry with safe, reliable and custom-tailored products, solutions and high-quality services.

Noark has three major R & D centers in Asia Pacific, Europe and North America, more than 20 logistics bases and 100 sales branches. There are more than 1300 staff worldwide, of which R & D personnel account for more than 10%. Its products cover a full range of low-voltage electrical appliance products such as power distribution, control automation, terminal and complete set. All these products are widely used in more than 40 countries and regions and serving more than 1000 key engineering projects.

As one of the first low-voltage electrical appliance Enterprises in China to obtain UL Certification in the United State, Noark also has successively obtained the Authoritative Certifications of TÜV in German, KEMA in the Netherlands, CSA in Canada, NOM in Mexico, LRQA in the United Kingdom and others since its establishment for more than ten years.

Superior Product Guarantee

The first "Premium Quality Guarantee" system is the concentrated embodiment of Noark's product advantages. With Outstanding Design, Strict Selection of Materials, Precise Manufacturing Technology and Severe Detection System, which the four links comply with international quality Standards to provide reliable quality guarantee for the smooth operation of your electrical system.

Outstanding Design

Sophisticated R & D Team | More than 80 Chinese Authorized Patents| German "Red Dot" Award

Precise Manufacturing Technology

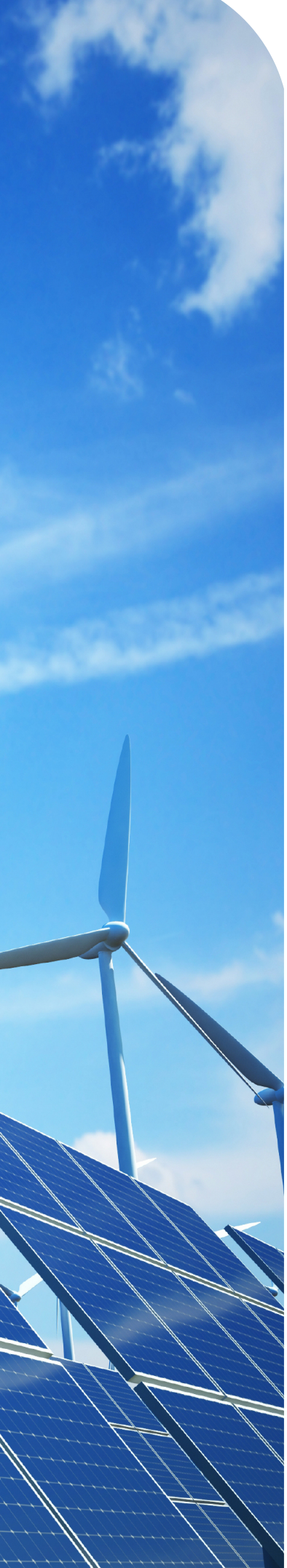
Precision Control Process | LRQA's ISO9001 | GB and IEC Standards

Strict Selection of Materials

More than 1500 Material Purchasing Warehouses in the World | More than 80% of Materials Can Be Recycled.
Compliance with RoHS and REACH.

Severe Detection System

More than 500 Sets of High-precision Testing Equipment | 46 Inspection Indexes
HEXAGON 3D CMM | ISO9001 and ISO14001



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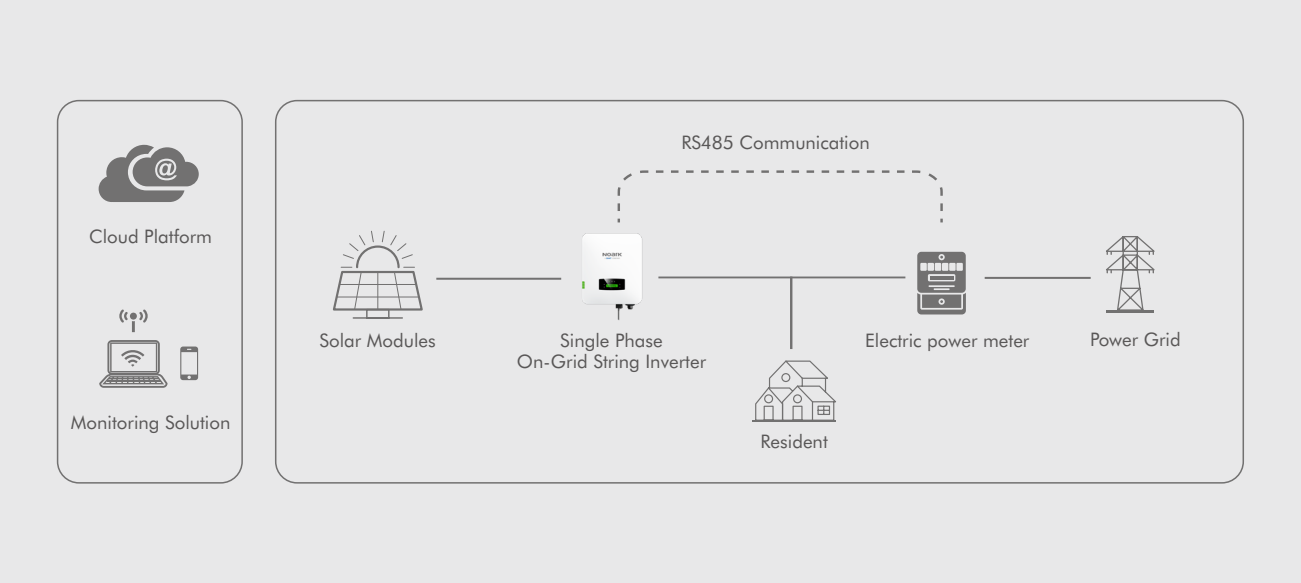
ON-GRID STRING INVERTER

Noark Solutions

1.1 Residential Solar Solution



Features of string type scheme

- Maximum efficiency 98.40%, European efficiency 98.10%.
- Standard 5 year warranty with optional 10 year extension.
- Anodized one-piece aluminum housing for effective protection against corrosion.
- Multiple power supply models to meet different customer needs, supporting over 150% DC side pass configurations.
- Access to cloud platform via Wi-Fi module (can be changed to Ethernet GPRs).
- Check system status anytime, anywhere via online website or mobile app.

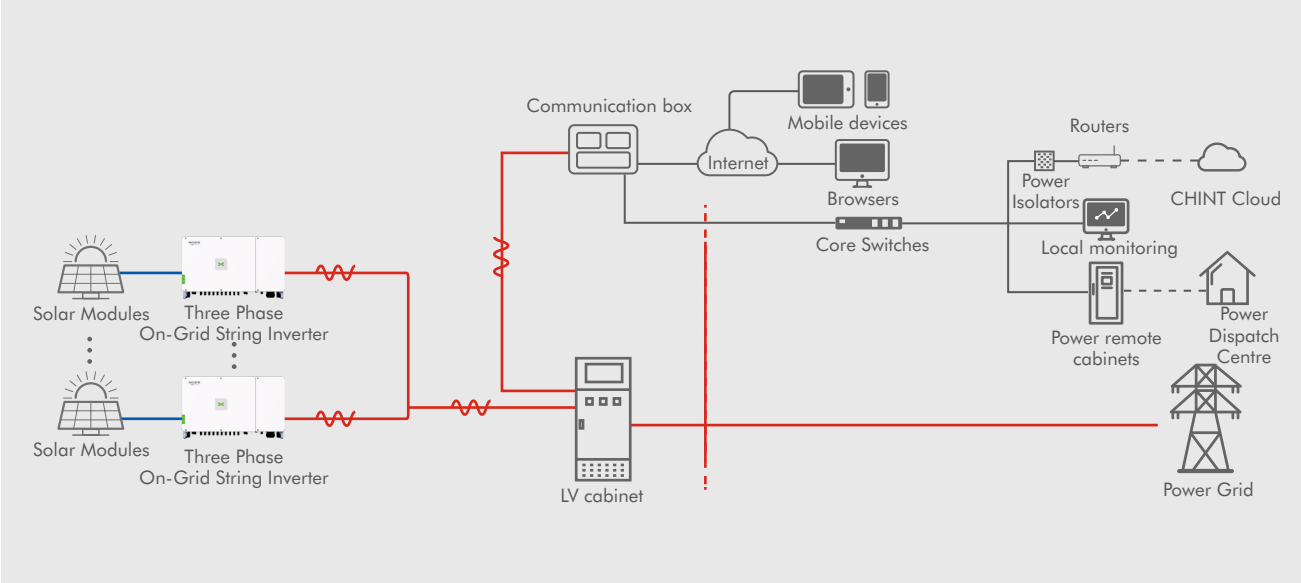
Project case

Thailand Chumphon 30KW Residential Solar Project

Venezuela on-grid Residential Solar Project

Quzhou Zhixi Homeland Golden Residential Solar Project

1.2 Commercial & Industrial Solar Solution



Features of string type scheme

- Diversified product portfolio, flexible matching of power plants with different capacities.
- Light equipment, fast and convenient installation.
- The number of MPPT channels is extremely large, which can improve the power generation efficiency.
- Advanced PID solution can effectively restrain component attenuation, and the protection level of inverter reaches IP66.
- High anti-corrosion aluminum alloy die casting is applicable to various harsh outdoor environments.
- The power station is connected to cloud platform in a unified way to centrally manage power stations scattered in different regions.

Project case

Hangzhou Railway Station 10MW Solar Power Project

Australia Hervey Bay Rooftop 16kW Solar Power Project

Dubai Naffco 1.5MWp Distributed Solar Power Project

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Products Overview

Single phase string inverters(230Vac)

Ex9N-G-3~6KS

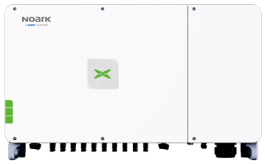
Ex9N-G-7~10KS

Three phase string inverters(400Vac)

Ex9N-G-3~25KT

Ex9N-G-30~40KT

Ex9N-G-50~60KT



Ex9N-G-100~136KT

Three phase string inverters (480V)

Ex9N-G-50~70KT/SA

Ex9N-G-136KT/SA

Three phase string inverters (540V)

Ex9N-G-136KTH/KT1H

Ex9N-G-3~10kW(230Vac)

Single Phase On-Grid String Inverter

Small size High efficiency

- Higher yield with Max. efficiency 98.40%, European efficiency 98.10%
- 1-2 MPPT design with precise MPPT algorithm
- Wide voltage range, low startup voltage, Higher conversion efficiency

Low input High income

- Multiple power models match the requirements of different customers
- Support high-power component access, low cost of system installation and cable
- Supports more than 150% DC side overmatch

Safe and Reliable

- High anti-corrosion with anodized one-piece aluminum housing
- WLAN, RS485, 4G Communication Supported
- 7*24H aftersales service can guarantee the maintenance of the Whole Life Cycle

3.0

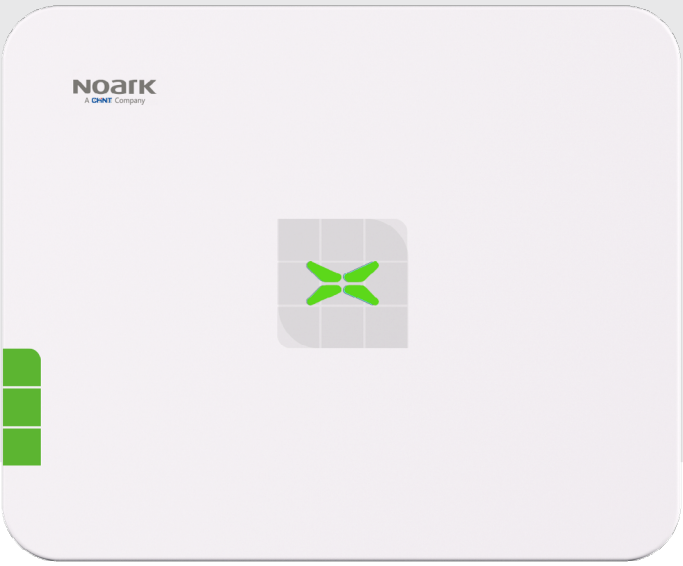
ON-GRID STRING INVERTER

Datasheets

	Ex9N-G-3KS	Ex9N-G-3.6KS	Ex9N-G-4KS	Ex9N-G-5KS	Ex9N-G-6KS	Ex9N-G-8KS1	Ex9N-G-10KS1
Input (DC)							
Max. Input Power	4.5kW	5.4kW	6kW	7.5kW	9kW	12kW	15kW
Max. Input Voltage	600V						
Start Voltage	70V						
Rated Input Voltage	360V						
Full-load MPP Voltage Range	110V~550V	130V~550V	145V~550V	180V~550V	220V~550V	220V~550V	220V~550V
MPPT Voltage Range	70V~550V						
Number of MPP Trackers	2						
Number of String per MPPT	2					3	4
Max. Current per MPPT	14A/14A					14A/26A	26A/26A
Max. Short Circuit Current per MPPT	18A/18A					18A/35A	35A/35A
DC Disconnection Type	Integrated Switch						
Output (AC)							
Max. Output Current	15A	17.5A	20A	24A	28.7A	38.3A	50A
Rated Output Power	3.3kW	3.96kW	4.4kW	5.5kW	6.6kW	8.8kW	11kW
Max. Output Power	3kVA	3.6kVA	4kVA	5kVA	6kVA	8kVA	10kVA
Rated Grid Frequency	50Hz / 60Hz						
Rated Grid Voltage	L/N/PE, 220Vac, 230Vac, 240Vac						
Power Factor	1 default (adjustable from 0.8 leading to 0.8 lagging)						
Output Current THD THDi	< 3%						
Efficiency							
Max. Efficiency	98.20%	98.20%	98.20%	98.20%	98.20%	98.20%	98.40%
European Efficiency	97.80%	97.82%	97.85%	97.90%	97.92%	98.00%	98.10%
Protection							
DC Reverse Polarity Protection	Yes						
Insulation Resistance Detection	Yes						
AC short circuit protection	Yes						
AC Over Current Protection	Yes						
AC Over Voltage Protection	Yes						
Anti-Islanding Protection	Yes						
Residual Current Detection	Yes						
Over Temperature Protection	Yes						
Surge Protection	Type III						
AFCI Protection	Optional						
General Data							
Dimensions (W x H x D)	370 × 350 × 142 mm					510 x 370 x 167 mm	
Weight	11kg					17	19
Operating Temperature Range	-25~60℃						
Cooling Method	Convection						
Protection Degree	IP65						
Max. Operaton Altitude	4000m						
Enclosure Material	Aluminum						
Humidity Range	0~100%						
Topology	Transformerless						
Communication Interface	RS485 / WiFi / Wire Ethernet / GPRS (optional)						
Noise Emission	<28db					<40db	
Night Power Consumption	<1						
Certifications and Standards							
Grid Connection Standards	IEC 61727, IEC 62116, IEC 60068, IEC 61683, EN 50549,IEEE1547						
Safety / EMC	EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12 UL1741, EN62109						

Ex9N-G-6~15kW(400Vac)

Three Phase On-Grid String Inverter



Small size
High efficiency

- Higher yield with Max. efficiency 98.70%, European efficiency 98.50%
- 2 MPPT design with precise MPPT algorithm
- Wide voltage range, low startup voltage, Higher conversion efficiency

Low input
High income

- Multiple power models match the requirements of different customers
- Support high-power component access, low cost of system installation and cable
- Supports more than 150% DC side overmatch

Safe and Reliable

- High anti-corrosion with aluminum alloy die casting
- WLAN, RS485, 4G Communication Supported
- 7*24H aftersales service can guarantee the maintenance of the Whole Life Cycle

3.0

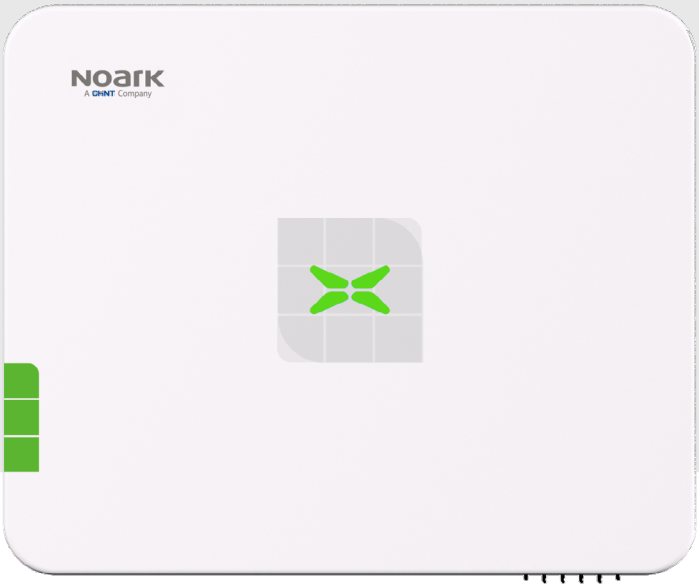
ON-GRID STRING INVERTER

Datasheets

	Ex9N-G-6KT	Ex9N-G-8KT	Ex9N-G-10KT	Ex9N-G-12KT	EX9N-G-15KTT
Input (DC)					
Max. Input Power	9.6kW	12.8kW	16kW	19.2kW	24kW
Max. Input Voltage	1100V				
Start Voltage	160V				
Rated Input Voltage	600V				
Full-load MPP Voltage Range	250V~850V	320V~850V	450V~850V	480V~850V	500V~850V
MPPT Voltage Range	180V~1000V				
Number of MPP Trackers	2				
Number of String per MPPT	1 / 1				1 / 2
Max. Current per MPPT	14A / 14A				14A / 28A
Max. Short Circuit Current per MPPT	18A / 18A				18A / 36A
DC Disconnection Type	Integrated Switch				
Output (AC)					
Max. Output Current	9.6A	12.8A	15.9A	19.1A	23.9A
Rated Output Power	6kW	8kW	10kW	12kW	15kW
Max. Output Power	6.6kVA	8.8kVA	11kVA	13.2kVA	16.5kVA
Rated Grid Frequency	50Hz / 60Hz				
Rated Grid Voltage	230Vac / 400Vac, 3L / N / PE				
Power Factor	> 0.99 (0.8 leading~0.8 lagging)				
THDi	< 3% (Rated Power)				
Efficiency					
Max. Efficiency	98.40%	98.70%			
European Efficiency	98.30%	98.50%			
MPPT Efficiency	99.90%				
Protection					
DC reverse polarity protection	Yes				
Anti-islanding protection	Yes				
AC short circuit protection	Yes				
Residual current monitoring unit	Yes				
Insulation resistance monitoring	Yes				
Ground fault monitoring	Yes				
Grid monitoring	Yes				
Surge protection	Type II				
AFCI protection	Optional				
Communication					
Display	LED / LCD / WiFi+App				
Communication	Standard: RS485 / USB Optional: WiFi / GPRS / Ethernet				
General Data					
Dimensions (W x H x D)	481 × 395 × 195 mm				
Weight	12kg	13.5kg			
Operating Temperature Range	-30℃ ~+60℃				
Cooling Method	Natural				
Protection Degree	IP66				
Max. Operating Altitude	4000m				
Relative Humidity	0~100%				
Topology	Transformerless				
Night Power Consumption	<1W				
Standard Compliance					
Grid Connection Standards	IEC 61727, IEC 62116, IEC 60068, IEC 61683, EN 50549, VDE 4105				
Safety / EMC	IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011				

Ex9N-G-20~25kW(400Vac)

Three Phase On-Grid String Inverter



Small size
High efficiency

- Higher yield with Max. efficiency 98.40%, European efficiency 98.00%
- 2 MPPT design with precise MPPT algorithm
- Wide voltage range, low startup voltage, Higher conversion efficiency

Low input
High income

- Multiple power models match the requirements of different customers
- Support high-power component access, low cost of system installation and cable
- Supports more than 150% DC side overmatch

Safe and Reliable

- High anti-corrosion with aluminum alloy die casting
- WLAN, RS485, 4G Communication Supported
- 7*24H aftersales service can guarantee the maintenance of the Whole Life Cycle

3.0

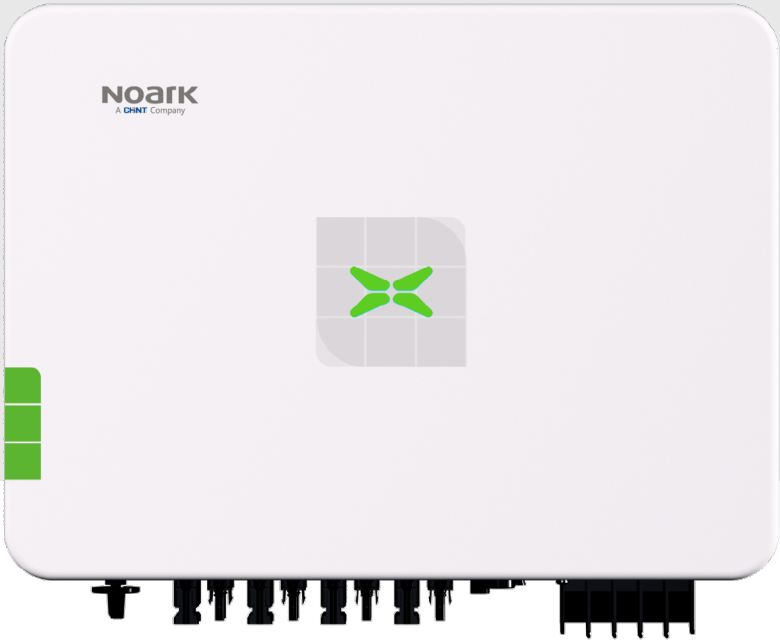
ON-GRID STRING INVERTER

Datasheets

	Ex9N-G-20KT	Ex9N-G-22KT	Ex9N-G-25KT
Input (DC)			
Max. Input Power	32kW	35.2kW	40kW
Max. Input Voltage	1100V		
Start Voltage	250V		
Rated Input Voltage	600V		
Full-load MPP Voltage Range	480V~800V	520V~800V	560V~800V
MPPT Voltage Range	200V~1000V		
Number of MPP Trackers	2		
Number of String per MPPT	2 / 2		2 / 3
Max. Current per MPPT	32A		32A / 48A
Max. Short Circuit Current per MPPT	40A		40A / 60A
DC Disconnection Type	Integrated Switch		
Output (AC)			
Max. Output Current	32.1A	35.3A	39.8A
Rated Output Power	20kW	22kW	25kW
Max. Output Power	22.2kVA	24.4kVA	27.5kVA
Rated Grid Frequency	50Hz / 60Hz		
Rated Grid Voltage	230Vac / 400Vac, 3L / N / PE		
Power Factor	> 0.99 (0.8 leading~0.8 lagging)		
THDi	< 3% (Rated Power)		
Efficiency			
Max. Efficiency	98.40%		
European Efficiency	98.00%		
MPPT Efficiency	99.90%		
Protection			
DC reverse polarity protection	Yes		
Anti-islanding protection	Yes		
AC short circuit protection	Yes		
Residual current monitoring unit	Yes		
Insulation resistance monitoring	Yes		
Ground fault monitoring	Yes		
Grid monitoring	Yes		
PV string monitoring	Yes		
Surge protection	Type II		
AFCI protection	Optional		
Communication			
Display	LED / LCD / WiFi+App		
Communication	Standard: RS485 / USB Optional: WiFi / GPRS / Ethernet		
General Data			
Dimensions (W x H x D)	534 × 440 × 220 mm		
Weight	24kg		
Operating Temperature Range	-30℃ ~+60℃		
Cooling Method	Smart Cooling		
Protection Degree	IP66		
Max. Operating Altitude	4000m		
Relative Humidity	0~100%		
Topology	Transformerless		
Night Power Consumption	<1W		
Standard Compliance			
Grid Connection Standards	IEC 61727, IEC 62116, IEC 60068, IEC 61683, EN 50549, VDE 4105		
Safety / EMC	IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011		

Ex9N-G-30~40kW(400Vac)

Three Phase On-Grid String Inverter



Small size High efficiency

- Higher yield with Max. efficiency 98.60%, European efficiency 98.50%
- 3-4 MPPT design with precise MPPT algorithm
- Wide voltage range, low startup voltage, Higher conversion efficiency

Low input High income

- Multiple power models match the requirements of different customers
- Support high-power component access, low cost of system installation and cable
- Supports more than 150% DC side overmatch

Safe and Reliable

- High anti-corrosion with aluminum alloy die casting
- WLAN, RS485, 4G Communication Supported
- 7*24H aftersales service can guarantee the maintenance of the Whole Life Cycle

3.0

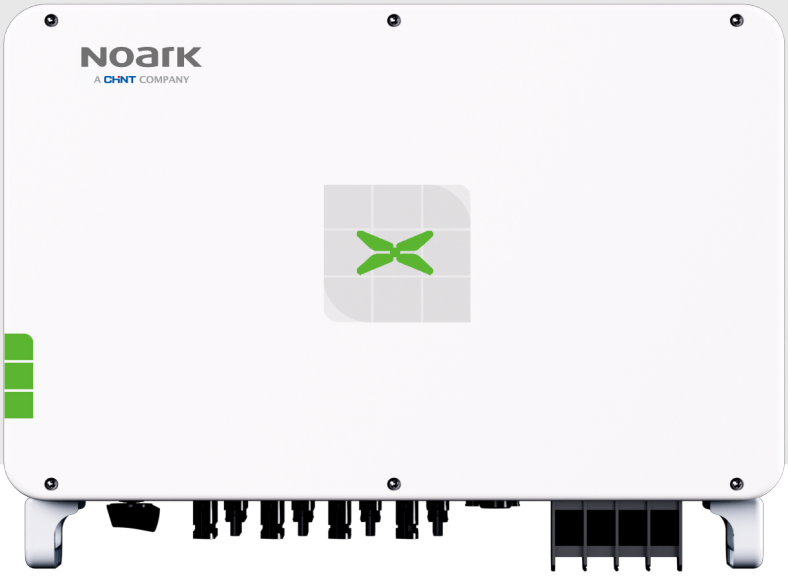
ON-GRID STRING INVERTER

Datasheets

	Ex9N-G-30KT	Ex9N-G-33KT	Ex9N-G-36KT	Ex9N-G-40KT
Input (DC)				
Max. Input Power	48kW	52.8kW	57.6kW	64kW
Max. Input Voltage	1100V			
Start Voltage	250V			
Rated Input Voltage	600V			
Full-load MPP Voltage Range	500V~800V			
MPPT Voltage Range	200V~1000V			
Number of MPP Trackers	3		4	
Number of String per MPPT	2			
Max. Current per MPPT	26A			
Max. Short Circuit Current per MPPT	32A			
DC Disconnection Type	Integrated Switch			
Output (AC)				
Max. Output Current	48.3A		57.8A	64.3A
Rated Output Power	30kW		36kW	40kW
Max. Output Power	33.3kVA		39.6kVA	44kVA
Rated Grid Frequency	50Hz / 60Hz			
Rated Grid Voltage	230Vac / 400Vac, 3L / N / PE			
Power Factor	> 0.99 (0.8 leading~0.8 lagging)			
THDi	< 3% (Rated Power)			
Efficiency				
Max. Efficiency	98.60%			
European Efficiency	98.50%			
MPPT Efficiency	99.90%			
Protection				
DC reverse polarity protection	Yes			
Anti-islanding protection	Yes			
AC short circuit protection	Yes			
Residual current monitoring unit	Yes			
Insulation resistance monitoring	Yes			
Ground fault monitoring	Yes			
Grid monitoring	Yes			
PV string monitoring	Yes			
Surge protection	Type II			
AFCI protection	Optional			
Communication				
Display	LED / LCD / WiFi+App			
Communication	Standard: RS485 / USB Optional: WiFi / GPRS / Ethernet			
General Data				
Dimensions (W x H x D)	600 × 430 × 230 mm			
Weight	30kg		32kg	
Operating Temperature Range	-30℃ ~+60℃			
Cooling Method	Smart Cooling			
Protection Degree	IP66			
Max. Operating Altitude	4000m			
Relative Humidity	0~100%			
Topology	Transformerless			
Night Power Consumption	<1W			
Standard Compliance				
Grid Connection Standards	IEC 61727, IEC 62116, IEC 60068, IEC 61683, EN 50549, VDE 4105			
Safety / EMC	IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011			

Ex9N-G-50~60kW(400Vac)

Three Phase On-Grid String Inverter



Small size High efficiency

- Higher yield with Max. efficiency 98.80%, European efficiency 98.50%
- 4 MPPT design with precise MPPT algorithm
- Wide voltage range, low startup voltage, Higher conversion efficiency

Low input High income

- Multiple power models match the requirements of different customers
- Support high-power component access, low cost of system installation and cable
- Supports more than 150% DC side overmatch

Safe and Reliable

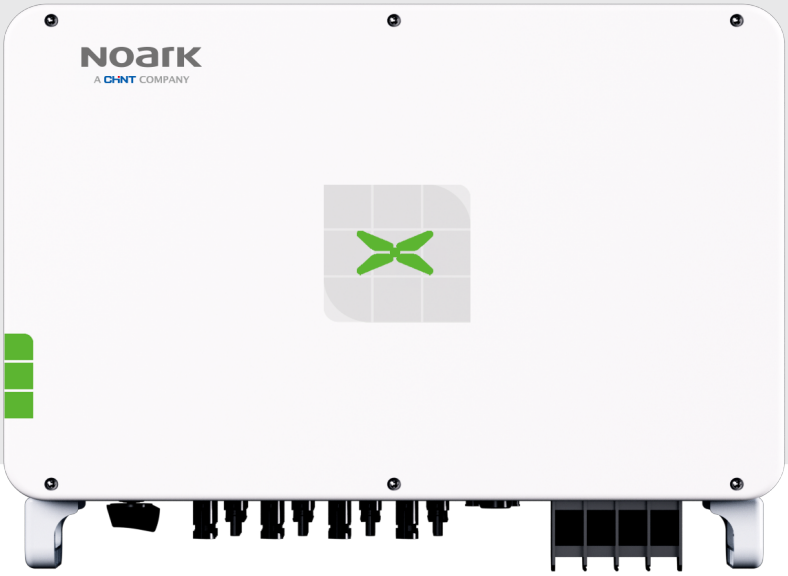
- High anti-corrosion with aluminum alloy die casting
- WLAN, RS485, 4G Communication Supported
- 7*24H aftersales service can guarantee the maintenance of the Whole Life Cycle

Datasheets

	Ex9N-G-50KT	Ex9N-G-60KT
Input (DC)		
Max. Input Power	80kW	96kW
Max. Input Voltage	1100V	
Start Voltage	250V	
Rated Input Voltage	600V	
Full-load MPP Voltage Range	520V~850V	
MPPT Voltage Range	200V~1000V	
Number of MPP Trackers	4	
Number of String per MPPT	3 / 2 / 3 / 2	3 / 3 / 3 /3
Max. Current per MPPT	39A / 26A / 39A / 26A	39A
Max. Short Circuit Current per MPPT	48A / 32A / 48A / 32A	48A
DC Disconnection Type	Integrated Switch	
Output (AC)		
Max. Output Current	79.7A	95.6A
Rated Output Power	50kW	60kW
Max. Output Power	55kVA	66kVA
Rated Grid Frequency	50Hz / 60Hz	
Rated Grid Voltage	230Vac / 400Vac	
Power Factor	> 0.99 (0.8 leading~0.8 lagging)	
THDi	< 3% (Rated Power)	
Efficiency		
Max. Efficiency	98.70%	98.80%
European Efficiency	98.40%	
MPPT Efficiency	99.90%	
Protection		
DC reverse polarity protection	Yes	
Anti-islanding protection	Yes	
AC short circuit protection	Yes	
Residual current monitoring unit	Yes	
Insulation resistance monitoring	Yes	
Ground fault monitoring	Yes	
Grid monitoring	Yes	
PV string monitoring	Yes	
Surge protection	Type II	
AFCI protection	Optional	
Communication		
Display	LED / LCD / WiFi+App	
Communication	Standard: RS485 / USB Optional: WiFi / GPRS / Ethernet	
General Data		
Dimensions (W x H x D)	650 × 450 × 260 mm	
Weight	50kg	
Operating Temperature Range	-30℃ ~+60℃	
Cooling Method	Smart Cooling	
Protection Degree	IP66	
Max. Operating Altitude	4000m	
Relative Humidity	0~100%	
Topology	Transformerless	
Night Power Consumption	<1W	
Standard Compliance		
Grid Connection Standards	IEC 61727, IEC 62116, IEC 60068, IEC 61683, EN 50549, CEI 0-21, VDE 4105	
Safety / EMC	IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011	

Ex9N-G-50~70kW (480Vac)

Three Phase On-Grid String Inverter



Small size High efficiency

- Higher yield with Max. efficiency 98.70%, European efficiency 98.50%
- 4 MPPT design with precise MPPT algorithm
- Wide voltage range, low startup voltage, Higher conversion efficiency

Low input High income

- Multiple power models match the requirements of different customers
- Support high-power component access, low cost of system installation and cable
- Supports more than 150% DC side overmatch

Safe and Reliable

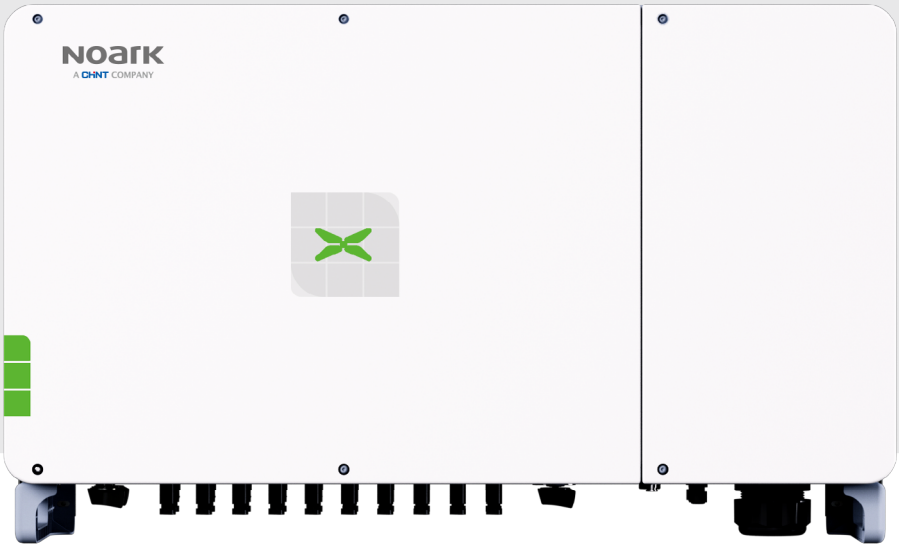
- High anti-corrosion with aluminum alloy die casting
- WLAN, RS485, 4G Communication Supported
- 7*24H aftersales service can guarantee the maintenance of the Whole Life Cycle

Datasheets

	Ex9N-G-50KT/SA	Ex9N-G-60KT/SA	Ex9N-G-66KT/SA	Ex9N-G-70KT/SA
Input (DC)				
Max. Input Power	80kW	96kW	105.6kW	112kW
Max. Input Voltage	1100V			
Start Voltage	250V			
Rated Input Voltage	600V		700V	
Full-load MPP Voltage Range	520V~850V		600V ~ 850V	
MPPT Voltage Range	200V~1000V			
Number of MPP Trackers	4			
Number of String per MPPT	3 / 2 / 3 / 2	3 / 3 / 3 / 3		
Max. Current per MPPT	39A / 26A / 39A / 26A	39A		
Max. Short Circuit Current per MPPT	48A / 32A / 48A / 32A	48A		
DC Disconnection Type	Integrated Switch			
Output (AC)				
Max. Output Current	66.2A	79.4A	87.4A	92.6A
Rated Output Power	50kW	60kW	66kW	70kW
Max. Output Power	55kVA	66kVA	72.6kVA	77kVA
Rated Grid Frequency	50Hz / 60Hz			
Rated Grid Voltage	277Vac / 480Vac			
Power Factor	> 0.99 (0.8 leading~0.8 lagging)			
THDi	< 3% (Rated Power)			
Efficiency				
Max. Efficiency	98.70%	98.80%		
European Efficiency	98.40%		98.50%	
MPPT Efficiency	99.90%			
Protection				
DC reverse polarity protection	Yes			
Anti-islanding protection	Yes			
AC short circuit protection	Yes			
Residual current monitoring unit	Yes			
Insulation resistance monitoring	Yes			
Ground fault monitoring	Yes			
Grid monitoring	Yes			
PV string monitoring	Yes			
Surge protection	Type II			
AFCI protection	Optional			
Communication				
Display	LED / LCD / WiFi+App			
Communication	Standard: RS485 / USB Optional: WiFi / GPRS / Ethernet			
General Data				
Dimensions (W x H x D)	650 × 450 × 260 mm			
Weight	50kg			
Operating Temperature Range	-30℃ ~+60℃			
Cooling Method	Smart Cooling			
Protection Degree	IP66			
Max. Operating Altitude	4000m			
Relative Humidity	0~100%			
Topology	Transformerless			
Night Power Consumption	<1W			
Standard Compliance				
Grid Connection Standards	IEC 61727, IEC 62116, IEC 60068, IEC 61683, EN 50549, CEI 0-21, VDE 4105			
Safety / EMC	IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011			

Ex9N-G-100~110kW(400Vac)

Three Phase On-Grid String Inverter



Small size
High efficiency

- Higher yield with Max. efficiency 98.70%, European efficiency 98.50%
- 9-10 MPPT design with precise MPPT algorithm
- Wide voltage range, low startup voltage, Higher conversion efficiency

Low input
High income

- Multiple power models match the requirements of different customers
- Support high-power component access, low cost of system installation and cable
- Supports more than 150% DC side overmatch

Safe and Reliable

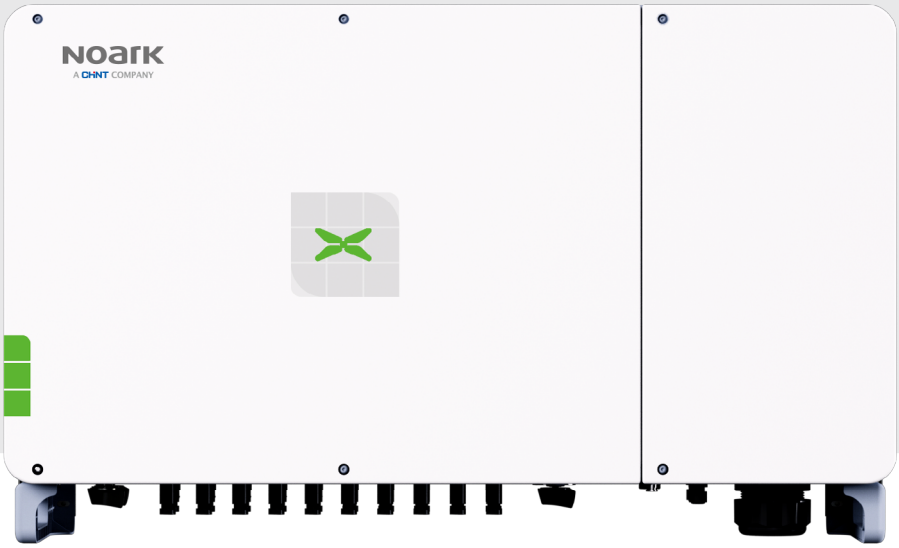
- High anti-corrosion with aluminum alloy die casting
- WLAN, RS485, 4G Communication Supported
- 7*24H aftersales service can guarantee the maintenance of the Whole Life Cycle

Datasheets

	Ex9N-G-100KT	Ex9N-G-100KT1	Ex9N-G-110KT	Ex9N-G-110KT1
Input (DC)				
Max. Input Power	150kW			
Max. Input Voltage	1100V			
Start Voltage	250V			
Rated Input Voltage	620V			
Full-load MPP Voltage Range	530V~850V			
MPPT Voltage Range	180V~1000V			
Number of MPP Trackers	9		10	
String per MPPT	2			
Max. Current per MPPT	26A	30A	26A	30A
Max. Short Circuit Current per MPPT	40A			
DC Disconnection Type	Integrated Switch			
Output (AC)				
Max. Output Current	158.8A		174.6A	
Rated Output Power	100kW		110kW	
Max. Output Power	110kVA		121kVA	
Rated Grid Frequency	50Hz / 60Hz			
Rated Grid Voltage	230Vac / 400Vac, 3L / N / PE, 3L /PE			
Power Factor	> 0.99 (0.8 leading~0.8 lagging)			
THDi	< 3% (Rated Power)			
Efficiency				
Max. Efficiency	98.70%			
European Efficiency	98.50%			
MPPT Efficiency	99.90%			
Protection				
DC reverse polarity protection	Yes			
Anti-islanding protection	Yes			
AC short circuit protection	Yes			
Residual current monitoring unit	Yes			
Insulation resistance monitoring	Yes			
Ground fault monitoring	Yes			
Grid monitoring	Yes			
PV string monitoring	Yes			
Surge protection	Type II			
AFCI protection	Optional			
PID recovery function	Optional			
SVG function	Optional			
Communication				
Display	LED / LCD / WiFi+App			
Communication	Standard: RS485 / USB Optional: WiFi / DRM / Bluetooth			
General Data				
Dimensions (W x H x D)	1050 × 660 × 330 mm			
Weight	95kg			
Operating Temperature Range	-30℃ ~+60℃			
Cooling Method	Smart Cooling			
Protection Degree	IP66			
Max. Operating Altitude	4000m			
Relative Humidity	0~100%			
Topology	Transformerless			
Night Power Consumption	<1W			
Standard Compliance				
Grid Connection Standards	IEC 61727, IEC 62116, IEC 60068, IEC 61683, EN 50549, CEI 0-21, VDE 4105			
Safety / EMC	IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011			

Ex9N-G-136kW (480Vac)

Three Phase On-Grid String Inverter



Small size
High efficiency

- Higher yield with Max. efficiency 98.70%, European efficiency 98.50%
- 12 MPPT design with precise MPPT algorithm
- Wide voltage range, low startup voltage, Higher conversion efficiency

Low input
High income

- Multiple power models match the requirements of different customers
- Support high-power component access, low cost of system installation and cable
- Supports more than 150% DC side overmatch

Safe and Reliable

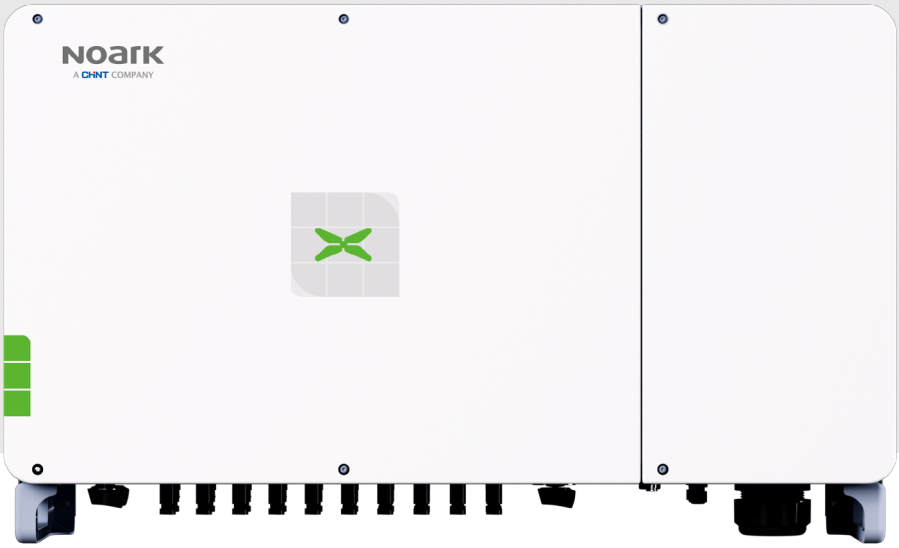
- High anti-corrosion with aluminum alloy die casting
- WLAN, RS485, 4G Communication Supported
- 7*24H aftersales service can guarantee the maintenance of the Whole Life Cycle

Datasheets

	Ex9N-G-136KT/SA	Ex9N-G-136KT1/SA
Input (DC)		
Max. Input Power	160kW	
Max. Input Voltage	1100V	
Start Voltage	250V	
Rated Input Voltage	730V	
Full-load MPP Voltage Range	560V~850V	
MPPT Voltage Range	180V~1000V	
Number of MPP Trackers	12	
String per MPPT	2	
Max. Current per MPPT	26A	30A
Max. Short Circuit Current per MPPT	40A	
DC Disconnection Type	Integrated Switch	
Output (AC)		
Max. Output Current	174.6A	
Rated Output Power	136kW	
Max. Output Power	150kVA	
Rated Grid Frequency	50Hz / 60Hz	
Rated Grid Voltage	277Vac / 480Vac, 3L / N / PE, 3L / PE	
Power Factor	> 0.99 (0.8 leading~0.8 lagging)	
THDi	< 3% (Rated Power)	
Efficiency		
Max. Efficiency	98.70%	
European Efficiency	98.50%	
MPPT Efficiency	99.90%	
Protection		
DC reverse polarity protection	Yes	
Anti-islanding protection	Yes	
AC short circuit protection	Yes	
Residual current monitoring unit	Yes	
Insulation resistance monitoring	Yes	
Ground fault monitoring	Yes	
Grid monitoring	Yes	
PV string monitoring	Yes	
Surge protection	Type II	
AFCI protection	Optional	
PID recovery function	Optional	
SVG function	Optional	
Communication		
Display	LED / LCD / WiFi+App	
Communication	Standard: RS485 / USB Optional: WiFi / DRM / Bluetooth	
General Data		
Dimensions (W x H x D)	1050 × 660 × 330 mm	
Weight	101kg	
Operating Temperature Range	-30℃ ~+60℃	
Cooling Method	Smart Cooling	
Protection Degree	IP66	
Max. Operating Altitude	4000m	
Relative Humidity	0~100%	
Topology	Transformerless	
Night Power Consumption	<1W	
Standard Compliance		
Grid Connection Standards	IEC 61727, IEC 62116, IEC 60068, IEC 61683,EN 50549,,VDE-AR-N 4105, CEI 0-21, VDE 4105	
Safety / EMC	IEC 62109-1, IEC 62109-2, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3	

Ex9N-G-136kW (540Vac)

Three Phase On-Grid String Inverter



Small size High efficiency

- Higher yield with Max. efficiency 98.70%, European efficiency 98.50%
- 12 MPPT design with precise MPPT algorithm
- Wide voltage range, low startup voltage, Higher conversion efficiency

Low input High income

- Multiple power models match the requirements of different customers
- Support high-power component access, low cost of system installation and cable
- Supports more than 150% DC side overmatch

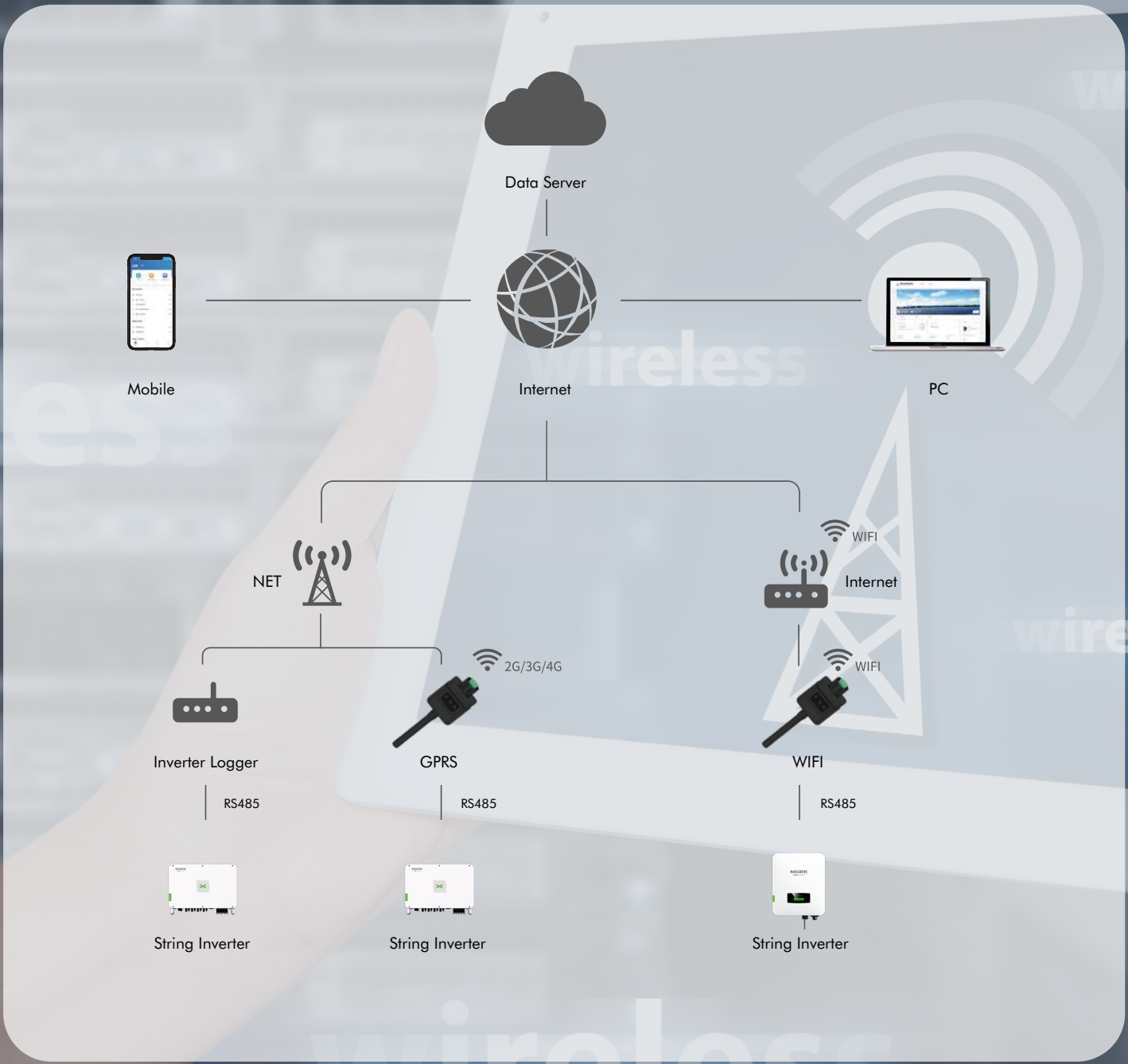
Safe and Reliable

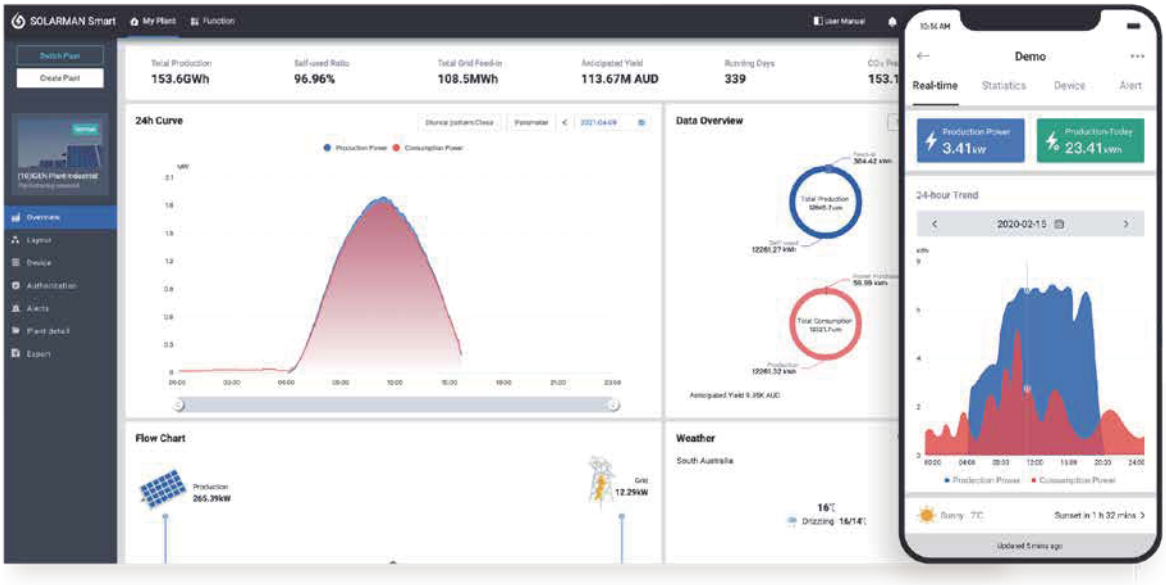
- High anti-corrosion with aluminum alloy die casting
- WLAN, RS485, 4G Communication Supported
- 7*24H aftersales service can guarantee the maintenance of the Whole Life Cycle

Datasheets

	Ex9N-G-136KTH	Ex9N-G-136KT1H
Input (DC)		
Max. Input Power	160kW	
Max. Input Voltage	1100V	
Start Voltage	250V	
Rated Input Voltage	780V	
Full-load MPP Voltage Range	560V ~ 850V	
MPPT Voltage Range	180V~1000V	
Number of MPP Trackers	12	
String per MPPT	2	
Max. Current per MPPT	26A	30A
Max. Short Circuit Current per MPPT	40A	
DC Disconnection Type	Integrated Switch	
Output (AC)		
Max. Output Current	160.4A	
Rated Output Power	136kW	
Max. Output Power	150kVA	
Rated Grid Frequency	50Hz / 60Hz	
Rated Grid Voltage	311Vac / 540Vac, 3L / N / PE, 3L / PE	
Power Factor	> 0.99 (0.8 leading~0.8 lagging)	
THDi	< 3% (Rated Power)	
Efficiency		
Max. Efficiency	98.70%	
European Efficiency	98.50%	
MPPT Efficiency	99.90%	
Protection		
DC reverse polarity protection	Yes	
Anti-islanding protection	Yes	
AC short circuit protection	Yes	
Residual current monitoring unit	Yes	
Insulation resistance monitoring	Yes	
Ground fault monitoring	Yes	
Grid monitoring	Yes	
PV string monitoring	Yes	
Surge protection	Type II	
AFCI protection	Optional	
PID recovery function	Optional	
SVG function	Optional	
Communication		
Display	LED / LCD / WiFi+App	
Communication	Standard: RS485 / USB Optional: WiFi / DRM / Bluetooth	
General Data		
Dimensions (W x H x D)	1050 × 660 × 330 mm	
Weight	101kg	
Operating Temperature Range	-30℃ ~+60℃	
Cooling Method	Smart Cooling	
Protection Degree	IP66	
Max. Operating Altitude	4000m	
Relative Humidity	0~100%	
Topology	Transformerless	
Night Power Consumption	<1W	
Standard Compliance		
Grid Connection Standards	IEC 61727, IEC 62116, IEC 60068, IEC 61683,EN 50549,,VDE-AR-N 4105, CEI 0-21	
Safety / EMC	IEC 62109-1, IEC 62109-2, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3	

Monitoring Solution





Monitoring Platform

For Device Manufacturer:

- Device Control and Firmware Upgrade
- Data Processing
- Authorization Management
- Batch Task
- Device Classification

For Service Provider:

- Plentiful Information
- Intelligent AI Diagnosis
- Most Cost-effective Virtual Weather Station
- Simple Drag-and-Drop
- Intelligent and Intuitive Alerts

Advantage:

- All-round Monitoring
- Create a Plant within 1 min
- Timely Alert Report
- Intuitive System Layout
- Flexible Plant Management

STICK LOGGER

GPRS/WiFi/Ethernet

Plug and play

No extra power supply is required.

Independent module

Protecting internal parts of inverter.

Waterproof design

Resistant to bad weather.

External design

External indicator lights, ensuring collection status at aglance; easy to replace faulty equipment.

	LS4G-5	LS4G-4	LSW-5	LSW-3	LSG-3	LSE-3
Remote Communication Interface	4G	4G	2.4G WiFi	2.4G WiFi	GPRS	LAN
GNSS	<20m	-	-	-	-	-
Antenna	Internal Antenna	External Antenna	Internal Antenna	External Antenna	External Antenna	-
Data Interface	RS485/RS232/TTL					
Working Voltage	DC 5-12V					
Working Power	3.5W	3.5W	1.5W	1.5W	3W	1W
SIM Card	Chip Card/MicroSIM		-	-	Chip Card/MicroSIM	-
Memory	8M Flash	8M Flash	8M Flash	2M Flash	2M Flash	2M Flash
Working Temperature	-40℃ ~ +85℃					
Working Humidity	<90% (No Condensation)					
No. of Connections	One					
Serial Communication Rate	9600bps (1200-115200bps Configurable)					
Data Acquisition Interval	Default: 5 mins (1-15 mins Configurable)					
User Configuration	BT/APP	APP	BT/APP/Web	APP/Web	APP/BT	Web/APP
Firmware Upgrade	BT/Remote	Remote	BT/Remote/Web	Remote/Web	Remote	Remote/Web
Real-time Control	√					
Data Resuming	√					
Power-off Reminder	√	√	√	-	-	-

DIN-RAIL LOGGER

GPRS/WiFi/Ethernet

Standard DIN-Rail Mount

Suitable for 35mm DIN-Rail mount.

Data Resuming

Ensure data integrity.

Remote Upgrade

Remote upgrade and aystem debugging, easy for O&M.

Alert Notification

Real-time alerts with timely notification, ensuring fast troubleshoot.

	LD4G-2	LDG-2	LDW-1
Remote Communication Interface	4G	GPRS	WiFi
Working Frequency	LTE-FDD, LTE-TDD, WCDMATD-SCDMA CDMA, GSM	GSM850, EGSM900, DCS 1800, PCS1900MHz	2.142GHz ~ 2 484GHz
No.of Connections	1-16	1-16	1-10
Ethernet	-	-	10/100M (Adaptive Network)
Working Voltage	DC 4.7-15V	DC 4.7-15V	DC 4.7-15V
Working Power	3.8W	3W	1W
Local Communication	RS485/RS422/RS232		
Serial Communication Rate	1200-115200bps Configurable		
Data Uploading Interval	Default: 5 mins (1-15 mins Configurable)		
Memory	2M Fash (51 2K-1 6M Optiona)		
User Configuration	AT+Instruction Set, Remote Server	AT+Instruction Set, Remote Server (BT3.0+EDR Configuration&Access)	AT+Instruction Set, Remote Server
SIM Card	MicroSIM	MicroSIM	-
Antenna	4G Small Antenna (Sucker Antenna Optional)	GPRS Small Antenna (Sucker Antenna Optional)	GPRS Small Antenna (Sucker Antenna Optional)
Working Temperature	-40℃ ~+85℃ (Battery Version: -20℃ ~ +60℃)	-40℃ ~+85℃ (Battery Version: -20℃ ~ +60℃)	-40℃ ~+85℃
Working Humidity	< 90% (non-condensation)		
Dimension (W x H x D)	76 x 91 x18 mm		
Installation Method	35mm DIN-Rail		