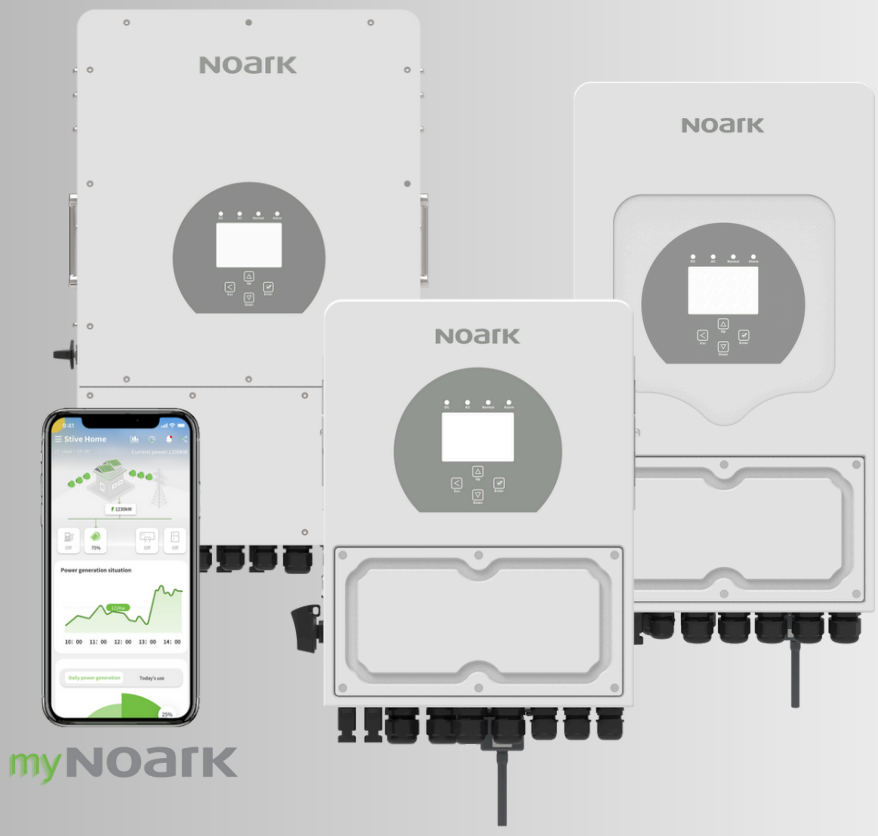
NOARK

EMPOWERING SUSTAINABILITY

HYBRID INVERTER

CATALOGUE



KEY HIGHLIGHTS

ALL-IN-ONE SOLUTION

Integrates seamlessly with solar panels, batteries, the utility grid, backup loads, generator, and meter, etc.

VERSATILE APPLICATIONS

A versatile piece of hardware designed for on-grid, pure off-grid applications, or using the grid as a backup.

AC COUPLING

Allows for more solar energy integration from string inverter in both on-grid and off-grid applications

PV OVERSIZING

Supports PV arrays that are more than 150% of the inverter's rated capacity, ensuring higher energy yields in varied weather conditions.

SCALABILITY

Can be paralleled up to 10 units of three-phase or 16 units of single-phase setups

INTEGRATION WITH NOARK CIRCUIT PROTECTION

Seamlessly integrates with Noark’s circuit protection products, enhancing safety, reliability, and system coherence.

LOCAL TEAM FOR SUPPORT AND SERVICE

Benefit from dedicated local support and service teams that provide timely warranty solutions and efficient problem-solving, ensuring peace of mind and continuous operation.

BEST SELLER

#881101 SION

EX9N-DH-5KS

- Single phase
- 2 MPPT
- 5 kVA
- 33 x 43 x 24 cm, 15 kg
- 48V 120A max charge/discharge
- 35A max AC passthrough

#881103 SION

EX9N-DH-8KS

- Single phase
- 2 MPPT
- 8 kVA
- 33 x 58 x 23 cm, 24 kg
- 48V 190A max charge/discharge
- 50A max AC passthrough

#883105 TRINIX

EX9N-DH-12KT

- Three phase
- 2 MPPT
- 12 kVA
- 42 x 70 x 28 cm, 34 kg
- 48V 240A max charge/discharge
- 45A max AC passthrough per phase

WHAT'S MORE

myNoark

ENERGY MANAGEMENT SYSTEM

DATA SECIRUTY

The system, including the web portal, app, and all user data, is hosted on AWS servers located in Australia. This ensures secure data storage, management, and compliance with stringent data protection standards.

REMOTE CONTROL AND UPGRADES

Allows remote control and firmware upgrades of the inverter, without the need for on-site visits.

FLEET MANAGEMENT FOR BUSINESSES

Provides advanced fleet management capabilities, allowing businesses to efficiently manage the crews, and multiple equipment across various sites and locations from a single, unified platform.

VERSATILE ACCESSORIES

Supports a range of accessories for complex scenarios, including wireless meter communication, local data hosting, and display solutions for monitoring and control.

UPSELLING AND CROSS-SELLING OPPORTUNITIES

Provides potential upselling and cross-selling opportunities with Noark's upcoming smart breaker, EV charger, and other advanced products.

COMPATIBLE BATTERY

BYD

PYLONTECH

Power

Dyness

ZYC ENERGY

Discover
Innovative Battery Solutions

More to Come

Check Compatibility List for more details

SION - Single Phase - 3 to 6 kW

Model	Ex9N-DH-3KS1-AU	Ex9N-DH-3KS-AU	Ex9N-DH-3.6KS-AU	Ex9N-DH-5KS-AU	Ex9N-DH-6KS-AU
Battery Input					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range	20 ~ 30 V	40 ~ 60 V			
Max Charging / Discharging Current	140 A	70 A	90 A	120 A	135 A
External Temperature Sensor	Yes				
Charging Curve	3 Stages / Equalization				
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
PV String Input					
Max PV Input Power	4500 W	4500 W	5400 W	7500 W	9000 W
Max PV Input Voltage	500 V				
Start-up Voltage	125 V				
MPPT Operating Range	150 V ~ 425 V				
Full Load PV Voltage Range	300 V ~ 425 V				
Max PV Input Current	13 A		13 A / 13 A		
Max PV Short Circuit Current	19.5 A		19.5 A / 19.5 A		
Number of MPPT / Strings per MPPT	1 / 1		2 / 1		
AC Output					
Nominal AC Rated Power	3000 W	3000 W	3600 W	5000 W	6000 W
Max Output Power / Rated Apparent Power	3000 VA	3000 VA	3600 VA	5000 VA	6000 VA
Nominal Backup Output Power	3000 VA	3000 VA	3600 VA	5000 VA	6000 VA
Rated AC Output Current	13.0 A	13.0 A	15.7 A	21.7 A	26.1 A
Max AC Output Current	13.0 A	13.0 A	15.7 A	21.7 A	26.1 A
Max Continuous AC Passthrough	35 A	35 A	35 A	35 A	40 A
Surge Power	200% Rated Power, 10 s				
Nominal Output Voltage / Range	Single Phase L/N/PE 230 V / 195.5 ~ 253 V, 240 V / 204 ~ 264 V (Optional)				
Rated Grid Frequency / Grid Frequency Range	50 Hz / 45 ~ 55 Hz				
Harmonic THD	< 3%				
Output Power Factor	0.8 Leading to 0.8 Lagging				
DC Injection Current	< 0.5%				
Efficiency					
Max Efficiency	97.6 %				
Europe Efficiency	97.0 %				
MPPT Efficiency	> 99.9%				
Protection					
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge protection				
Surge Protection	DC Type II / AC Type III				
General Data					
Dimensions	330W x 433H x 238D mm				
Weight	14 kg	14 kg	14 kg	15 kg	15 kg
Protection Level	Class I				
Topology	Transformerless				
Internal Consumption	< 1 W (Night)				
Operating Ambient Temperature Range	-40 ~ 60 °C				
Operating Relative Humidity Range	0 ~ 100%				
Ingress Protection	IP65				
Noise Emission	≤ 30 dB				
Cooling Method	Natural Cooling				Fan Cooling
Max Operating Altitude without Derating	2000 m				
Warranty	10 Years				
Grid Compliance	AS/NZS 4777.2:2020				
Safety EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				
Country of Manufacture	China				
Communication	RS485/CAN/Wifi				

SION - Single Phase - 7.6 and 8 kW

Model	Ex9N-DH-7.6KS-AU	Ex9N-DH-8KS-AU
Battery Input		
Battery Type	Lead-acid or Lithium-ion	
Battery Voltage Range	40 ~ 60 V	
Max Charging / Discharging Current	190 A	
External Temperature Sensor	Yes	
Charging Curve	3 Stages / Equalization	
Charging Strategy for Li-ion Battery	Self-adaption to BMS	
PV String Input		
Max PV Input Power	11400 W	12000 W
Max PV Input Voltage	500 V	
Start-up Voltage	125 V	
MPPT Operating Range	150 V ~ 425 V	
Full Load PV Voltage Range	200 V ~ 425 V	
Max PV Input Current per MPPT	26 A (13 A / 13 A)	
Max PV Short Circuit Current per MPPT	39 A (19.5A / 19.5A)	
Number of MPPT / Strings per MPPT	2 / 2	
AC Output		
Nominal AC Rated Power	7600 W	8000 W
Max Output Power / Rated Apparent Power	7600 VA	8000 VA
Nominal Backup Output Power	7600 VA	8000 VA
Rated AC Output Current	33 A	34.8 A
Max AC Output Current	33 A	34.8 A
Max Continuous AC Passthrough	50 A	
Surge Power	200% Rated Power, 10 s	
Nominal Output Voltage / Range	Single Phase L/N/PE 230 V / 195.5 ~ 253 V, 240 V / 204 ~ 264 V (Optional)	
Rated Grid Frequency / Grid Frequency Range	50 Hz / 45 ~ 55 Hz	
Harmonic THD	< 3%	
Output Power Factor	0.8 Leading to 0.8 Lagging	
DC Injection Current	< 0.5%	
Efficiency		
Max Efficiency	97.6 %	
Europe Efficiency	96.5 %	
MPPT Efficiency	99.9%	
Protection		
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge Protection	
Surge Protection	DC Type II / AC Type III	
General Data		
Dimensions	330W x 580H x 232D mm	
Weight	24 kg	
Protection Level	Class I	
Topology	Transformerless	
Internal Consumption	< 1 W (Night)	
Operating Ambient Temperature Range	-40 ~ 60 °C (>45°C derating)	
Operating Relative Humidity Range	0 ~ 100%	
Ingress Protection	IP65	
Noise Emission	≤ 30 dB	
Cooling Method	Fan Cooling	
Max Operating Altitude without Derating	2000 m	
Warranty	10 Years	
Grid Compliance	AS/NZS 4777.2:2020	
Safety EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	
Country of Manufacture	China	
Communication	RS485/CAN/Wifi	

TRINIX - Three Phase - 5 to 12 kW

Model	Ex9N-DH-5KT-AU	Ex9N-DH-6KT-AU	Ex9N-DH-8KT-AU	Ex9N-DH-10KT-AU	Ex9N-DH-12KT-AU
Battery Input					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range	40 ~ 60 V				
Max Charging / Discharging Current	120 A	150 A	190 A	210 A	240 A
External Temperature Sensor	Yes				
Charging Curve	3 Stages / Equalization				
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
PV String Input					
Max PV Input Power	7500 W	9000 W	12000 W	15000 W	18000 W
Max PV Input Voltage	800 V				
Start-up Voltage	160 V				
MPPT Operating Range	200V ~ 650 V				
Full Load PV Voltage Range	350V ~ 650 V				
Max PV Input Current	26 A (13 A / 13 A)			39 A (26 A / 13 A)	
Max PV Short Circuit Current	39 A (19.5 A / 19.5 A)			58.5 A (39 A / 19.5 A)	
Number of MPPT / Strings per MPPT	2 / 1			2 / 2+1	
AC Output					
Nominal AC Rated Power	5000 W	6000 W	8000 W	10000 W	12000 W
Max Output Power / Rated Apparent Power	5000 VA	6000 VA	8000 VA	10000 VA	12000 VA
Nominal Backup Output Power	5000 VA	6000 VA	8000 VA	10000 VA	12000 VA
Rated AC Output Current per Phase	7.2 A	8.7 A	11.6 A	14.5 A	17.4 A
Max AC Output Current per Phase	7.2 A	8.7 A	11.6 A	14.5 A	17.4 A
Max 3P Unbalanced Output Current	10.9 A	13 A	17.4 A	21.7 A	26.1 A
Max Continuous AC Passthrough	45 A				
Surge Power	200% Rated Power, 10 s				
Nominal Output Voltage / Range	Three Phase 3L/N/PE 400 V / 340 ~ 440 V, 415 V / 353~ 456.5 V (Optional)				
Rated Grid Frequency / Grid Frequency Range	50 Hz / 45 ~ 55 Hz				
Harmonic THD	< 3%				
Output Power Factor	0.8 Leading to 0.8 Lagging				
DC Injection Current	< 0.5%				
Efficiency					
Max Efficiency	97.6 %				
Europe Efficiency	97.0 %				
MPPT Efficiency	99.9%				
Protection					
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge protection				
Surge Protection	DC Type II / AC Type III				
General Data					
Dimensions	422W x 702H x 281D mm				
Weight	33.6 kg				
Protection Level	Class I				
Topology	Transformerless				
Internal Consumption	< 1 W (Night)				
Operating Ambient Temperature Range	-40 ~ 60 °C				
Operating Relative Humidity Range	0 ~ 100%				
Ingress Protection	IP65				
Noise Emission	≤ 55 dB				
Cooling Method	Fan Cooling				
Max Operating Altitude without Derating	2000 m				
Warranty	10 Years				
Grid Compliance	AS/NZS 4777.2:2020				
Safety EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				
Country of Manufacture	China				
Communication	RS485/CAN/Wifi				

COMING SOON

The Most Powerful Single Phase Hybrid Inverter

Ex9N-DH-12/14/16KS

SION - Single Phase - 12 to 16 kW

Model	Ex9N-DH-12KS-AU	Ex9N-DH-14KS-AU	Ex9N-DH-16KS-AU
Battery Input			
Battery Type	Lead-acid or Lithium-ion		
Battery Voltage Range	40 ~ 60 V		
Max Charging / Discharging Current	220 A	250 A	290 A
Number of Battery Input	2		
Charging Strategy for Li-ion Battery	Self-adaption to BMS		
PV String Input			
Max PV Input Power	18000 W	21000 W	24000 W
Max PV Input Voltage	500 V		
Start-up Voltage	125 V		
MPPT Operating Range	150 V ~ 425 V		
Full Load PV Voltage Range	250 V ~ 425 V		
Max PV Input Current per MPPT	26 / 26 / 26 A		
Max PV Short Circuit Current per MPPT	44 / 44 / 44 A		
Number of MPPT / Strings per MPPT	3 / 2		
AC Output			
Nominal AC Rated Power	12000 W	14000 W	16000 W
Max Output Power / Rated Apparent Power	12000 VA	14000 VA	16000 VA
Rated AC Output Current	52.5 A	60.9 A	69.6 A
Max AC Output Current	52.5 A	60.9 A	69.6 A
Max Continuous AC Passthrough	100 A		
Surge Power	200% Rated Power, 10 s		
Nominal Output Voltage / Range	Single Phase L/N/PE 230 V / 195.5 ~ 253 V, 240 V / 204 ~ 264 V (Optional)		
Rated Grid Frequency / Grid Frequency Range	50 Hz / 45 ~ 55 Hz		
Harmonic THD	< 3%		
Output Power Factor	0.8 Leading to 0.8 Lagging		
DC Injection Current	< 0.5%		
Efficiency			
Max Efficiency	97.6 %		
Europe Efficiency	96.5 %		
MPPT Efficiency	99.9%		
Protection			
Integrated	DC Polarity Reverse Protection, AC Output Overcurrent Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, Thermal Protection, DC Terminal Insulation Impedance Monitoring, DC Component Monitoring, Ground Fault Current Monitoring, Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch, Overvoltage Load Drop Protection, Residual Current (RCD) Detection, Surge Protection		
Surge Protection	DC Type II / AC Type III		
General Data			
Dimensions	464W x 763H x 282D mm		
Weight	48 kg		
Protection Level	Class I		
Topology	Transformerless		
Operating Ambient Temperature Range	-40 ~ 60 °C (>45°C derating)		
Operating Relative Humidity Range	0 ~ 100%		
Ingress Protection	IP65		
Noise Emission	≤ 50 dB		
Cooling Method	Fan Cooling		
Max Operating Altitude without Derating	2000 m		
Warranty	10 Years		
Grid Compliance	AS/NZS 4777.2:2020		
Safety EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		
Country of Manufacture	China		
Communication	RS485/CAN/Wifi		

WHERE TO BUY

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