

Dual MPPT Single Phase Hybrid Inverter

12 to 16 kW



Models:

Ex9N-DH-12KS-AU

Ex9N-DH-14KS-AU

Ex9N-DH-16KS-AU

- ✓ Wireless configuration or via coloured LCD touch screen
- ✓ Support multiple batteries in parallel
- ✓ 6 time-of-use settings for battery charging/discharging
- ✓ Support diesel and petrol generator
- ✓ 24/7 monitoring via myNoark energy management system
- ✓ Remote upgrade and control
- ✓ Capable of load shedding

Specifications

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 (On grid)						
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%					
AC Input/Output (Off grid)						
Max Input/Output Power	12000 W		14000 W		16000 W	
Rated Input/Output Voltage and Frequency	230 V, 50Hz					
Max Input/Output Current	52.5 A		60.9 A		69.6 A	
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, Anti-islanding Protection (Frequency Shift)					
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					
Interface						
Display	LCD Display and LED Indicator					
Communication	RS485/CAN/Wifi					