

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

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		
Interface			
Display	LCD Display and LED Indicator		
Communication	RS485/CAN/Wifi		