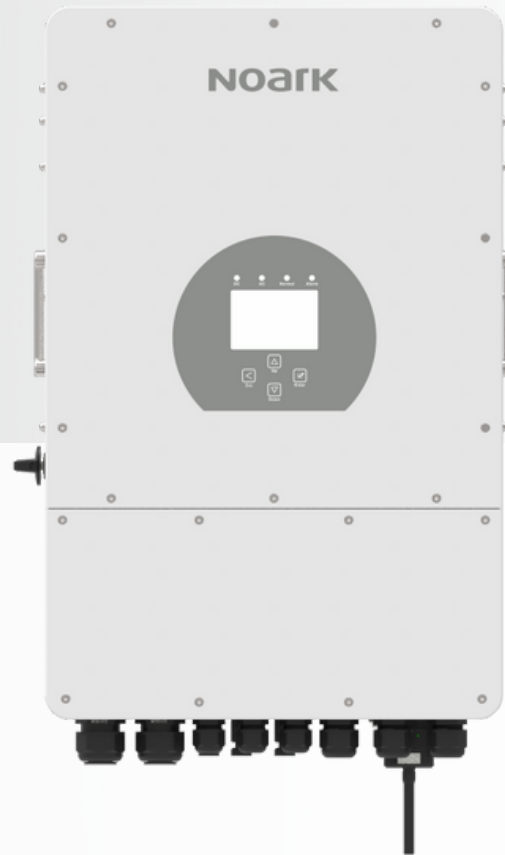


## Dual MPPT Three Phase Hybrid Inverter

5 to 12 kW



Models:

**Ex9N-DH-5KT-AU**

**Ex9N-DH-6KT-AU**

**Ex9N-DH-8KT-AU**

**Ex9N-DH-10KT-AU**

**Ex9N-DH-12KT-AU**

- ✓ Wireless configuration or via coloured LCD touch screen
- ✓ 100% unbalanced output up to 50% of rated power
- ✓ 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-5KT-AU  | Ex9N-DH-6KT-AU | Ex9N-DH-8KT-AU | Ex9N-DH-10KT-AU        | Ex9N-DH-12KT-AU |
|---|---|----------------|----------------|------------------------|-----------------|
| <b>Battery Input</b>                        |   |                |                |                        |                 |
| 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  |                |                |                        |                 |
| <b>PV String Input</b>                      |   |                |                |                        |                 |
| 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                |                 |
| <b>AC Output</b>                            |   |                |                |                        |                 |
| 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%  |                |                |                        |                 |
| <b>Efficiency</b>                           |   |                |                |                        |                 |
| Max Efficiency                              | 97.6 %  |                |                |                        |                 |
| Europe Efficiency                           | 97.0 %  |                |                |                        |                 |
| MPPT Efficiency                             | 99.9%   |                |                |                        |                 |
| <b>Protection</b>                           |   |                |                |                        |                 |
| 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  |                |                |                        |                 |
| <b>General Data</b>                         |   |                |                |                        |                 |
| 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   |                |                |                        |                 |
| <b>Interface</b>                            |   |                |                |                        |                 |
| DC Connection Type                          | VP-D4B  |                |                |                        |                 |
| AC Connection Type                          | IP65 Rated Plug and Play Connector  |                |                |                        |                 |
| Display                                     | LCD Display and LED Indicator   |                |                |                        |                 |
| Communication                               | RS485/CAN/Wifi  |                |                |                        |                 |