



AC Switching Cabinet

NEXUS ZERO



Intelligent Operation

- Seamless switching between grid and off-grid
- EMS 1000 PRO Inside: Seamlessly integrated, intelligent management of PV, ESS, and loads for optimal energy performance
- Supports a maximum switching power of up to 1.25MW



Safer and Reliable

- Load-friendly design, protects equipment from unstable grid damage
- Supports Type II surge protection
- Supports water ingress alerts, over-temperature warnings, and door lock status feedback



Environmental Adaptability

- IP55 protection rating, suitable for both indoor and outdoor use
- Supports operation in environments ranging from -30°C to 55°C
- Reliable operation at 3000 meters without derating
- C5-M corrosion protection standards for reliable performance in the harshest environments



Versatile Applications

- Supports connection to diesel generators to ensure stable energy supply
- Intelligent operation, supports multiple operation modes
- Supports building on-grid/off-grid, solar-storage microgrid, and solar-storage-diesel microgrid solutions

Nexus Zero

| SYSTEM PARAMETERS | | | | | |
|---|--|---------------------|----------------------|----------------------|-----------------------|
| Model | ZERO-125 | ZERO-250 | ZERO-500 | ZERO-750 | ZERO-1250 |
| Rated AC voltage | 3 / N / PE, 230 / 400 V 3 / N / PE, 220 / 380 V | | | | |
| Rated AC frequency | 50 Hz / 60 Hz | | | | |
| Rated AC current@230V | 181.2 A | 362.3 A | 724.6 A | 1087 A | 1811.6 A |
| Rated AC current@220V | 189.4 A | 378.8 A | 757.6 A | 1136 A | 1893.9 A |
| Disruption time of backup switch ^① | 0 ms | | | | |
| Power limit (grid) | Yes | | | | |
| Grid breaker | 250 A | 500 A | 1000 A | 1600 A | 2500 A |
| Load breaker | 250 A | 500 A | 1000 A | 1600 A | 2500 A |
| Bypass breaker | 250 A | 500 A | 1000 A | 1600 A | 2500 A |
| Ingress protection | IP55 | | | | |
| SPD | Type II | | | | |
| Operating temperature | -30 to +55 °C | | | | |
| Altitude | 3000 m | | | | |
| Dimension (W x H x D) | 900 x 1600 x 800 mm | 900 x 1600 x 800 mm | 1200 x 2300 x 800 mm | 1200 x 2300 x 800 mm | 1900 x 2300 x 1200 mm |
| Weight (kg) | 300 kg | 330 kg | 660 kg | 730 kg | 1500 kg |
| Rated short circuit current | 10 kA | 15 kA | 30 kA | 40 kA | 60 kA |
| Certificates and approvals | EN/IEC61439-1, EN/IEC61439-2, IEC 61000, IEC 60730 | | | | |

① Test conditions: In the open-circuit state of the power grid, the total rated power of all Power Conversion Systems (PCS) is higher than the total power of the backup loads.

Block Diagram

