



DATASHEET
 Three-Phase Hybrid/AC Inverter
 H3-5.0-E / 6.0 / 8.0 / 10.0 / 12.0
 AC3-5.0-E / 6.0 / 8.0 / 10.0

3-PHASE

HYBRID/AC INVERTER

Harness the power of the sun day and night with the ground-breaking range of Hybrid & AC inverters from FOX.

Full of advanced features and compatible with our very own range of high-voltage batteries, the hybrid range from FOX. is a new class of Inverter.



FOX storage solutions are available with advanced and intuitive app based remote control and monitoring functionality.



Easy Installation

Flexible configuration, plug and play set-up, built-in fuse protection.



High Voltage

Connects to high-voltage batteries for maximum round-trip efficiency.



IP65 Rated

Engineered to last with maximum flexibility. Suitable for outdoor installation.



Remote Monitoring

Monitor your system remotely via smartphone app or web portal.



up to
12kW
 charge/
 discharge

REFINED – POWERFUL – FLEXIBLE

BATTERY EXPANSION EASY UPGRADE



Easily expand your system by just add extra batteries. There are three battery series you can choose, which enables a storage capacity of up to 28.21 Kwh. There are Max. 10 storage inverters can be connected in parallel to allow you enlarge the system scale base on different installation requirement.

For more about the FOX range, visit:

WWW.FOX-ESS.COM



TECHNICAL SPECIFICATIONS

| Model | H3-5.0-E AC3-5.0-E | H3-6.0-E AC3-6.0-E | H3-8.0-E AC3-8.0-E | H3-10.0-E AC3-10.0-E | H3-12.0-E |
|--|-----------------------|-----------------------|---|-------------------------|---------------|
| INPUT PV (only for hybrid) | | | | | |
| Max. Input Power [W] | A:4000 B:4000 | A:4000 B:4000 | A:8000 B:5000 | A:8000 B:5000 | A:8000 B:5000 |
| Max. Input Voltage [V] | | | 1000 | | |
| Start-up Input Voltage [V] | | | 160 | | |
| Rated Input Voltage [V] | | | 720 | | |
| MPPT Operating Voltage Range [V] | | | 160-950 | | |
| Max. Input Current [A] | 14/14 | 14/14 | 26/14 | 26/14 | 26/14 |
| Max. Short-circuit Current [A] | 16/16 | 16/16 | 32/16 | 32/16 | 32/16 |
| No. of Independent MPP Trackers | | | 2 | | |
| No. of Strings per MPP Tracker | 1/1 | 1/1 | 2/1 | 2/1 | 2/1 |
| BATTERY CONNECTION | | | | | |
| Battery Type | | | Lithium Battery (LFP) | | |
| Battery Voltage Range [V] | | | 180-600 | | |
| Max. Charge/Discharge Current [A] | | | 26.0 | | |
| Communication Interface | | | CAN(Communicate with inverter), RS485 (Upgrade BMS) | | |
| AC INPUT AND OUTPUT (GRID) | | | | | |
| Max. AC Input Power [VA] | 10000 | 12000 | 16000 | 16000 | 16000 |
| Max. AC Input Current (per phase) [A] | 15.2 | 18.2 | 24.2 | 24.2 | 24.2 |
| Rated Output Power [W] | 5000 | 6000 | 8000 | 10000 | 12000 |
| Max. Output Apparent Power [VA] | 5500 | 6600 | 8800 | 11000 | 13200 |
| Rated Output Current (per phase) [A] | 7.2 | 8.7 | 11.6 | 14.5 | 17.4 |
| Max. Output Current (per phase)[A] | 8.8 | 10.6 | 14.1 | 17.6 | 21.2 |
| Rated Grid Voltage [V] | | | 3L/N/PE 380/220; 400/230; 415/240 | | |
| Rated Grid Frequency [Hz] | | | 50/60 | | |
| Power Factor | | | 1 (Adjustable from 0.8 leading to 0.8 lagging) | | |
| THDI | | | <3%@Rated Power | | |
| EPS OUTPUT | | | | | |
| Max. Output Apparent Power [VA] | 5000 | 6000 | 8000 | 10000 | 12000 |
| Peak Output Apparent Power (60s) [VA] | 10000 | 12000 | 14000 | 15000 | 15000 |
| Max. Current (per phase) [A] | 7.2 | 8.7 | 11.6 | 14.5 | 17.4 |
| Rated Output Voltage [V] | | | 3L/N/PE 400/230 | | |
| Rated Output Frequency [Hz] | | | 50/60 | | |
| Power Factor | | | 1 (Adjustable from 0.8 leading to 0.8 lagging) | | |
| THDv (linear Load) | | | <3%@Rated Power | | |
| Switch time [ms] | | | <20 | | |
| EFFICIENCY | | | | | |
| Max. Efficiency | 97.80% | 97.80% | 98.00% | 98.00% | 98.00% |
| Euro Efficiency | 97.20% | 97.20% | 97.30% | 97.30% | 97.30% |
| Max. Battery Charge Efficiency (PV to BAT) (@full load) | 98.50% | 98.50% | 98.50% | 98.50% | 98.50% |
| Max. Battery Discharge Efficiency (BAT to AC) (@full load) | 97.00% | 97.00% | 97.00% | 97.00% | 97.00% |
| PROTECTION | | | | | |
| Insulation Monitoring | | | YES | | |
| Residual Current Monitoring | | | YES | | |
| DC Reverse Polarity Protection | | | YES | | |
| Anti-islanding Protection | | | YES | | |
| AC Short-circuit Protection | | | YES | | |
| AC Overcurrent/Overvoltage Protection | | | YES | | |
| DC Switch | | | YES | | |
| SPD | | | DC: Type II, /AC: Type II | | |
| AFCI | | | Optional (Available in Q3,2022) | | |
| GENERAL DATA | | | | | |
| Dimensions (WxHxD) [mm] | | | 449*519*198 | | |
| Weight [kg] | | | 28 | | |
| Installation | | | Wall-Mounted | | |
| Topology | | | Transformerless | | |
| Cooling Method | | Neutral | | FAN Cooling | |
| Noise Emission [db] | | 35 | | 45 | |
| Max. Operating Altitude [m] | | | 2000 | | |
| Operating Temperature Range [°C] | | | -25 to 60 | | |
| Humidity (No Condensation) | | | 0% to 100% | | |
| Protection Degree | | | IP65 | | |
| Standby consumption [W] | | | <15 | | |
| Monitoring Module | | | WiFi, LAN, 4G, GPRS (Optional) | | |
| Communication | | | 2*RS485, DRM, Ripple Control, USB | | |
| Display | | | LCD, App, Website | | |
| STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST) | | | | | |
| Safety | | | EN 62109-1, EN 62109-2, EN 62477-1 | | |
| EMC | | | IEC 61000-6-1, IEC 61000-6-3 | | |
| Grid Regulation | | | EN50549-1, C10/11, VDE-AR-N 4105, G98, CEI 0-21 | | |

* More technical characteristics are available on demand and customized.