



H3/AC3

THREE-PHASE **HYBRID/AC INVERTER**



HIGH VOLTAGE

Includes high-voltage batteries for maximum round-trip efficiency.



EASY INSTALLATION

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



IP65 RATED

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



REMOTE MONITORING

Monitor your system remotely via smartphone app or web portal.



Advanced System Monitoring
with **FoxCloud V2.0**

REFINED – POWERFUL – FLEXIBLE

Harness the power of the sun day and night with the ground-breaking range of Hybrid & AC inverter from Fox ESS. Full of advanced features and compatible with our very own range of high-voltage batteries, the hybrid range from Fox ESS.

H3 5kW ...>> 10kW
AC3 5kW ...>> 10kW



For more information about the Fox ESS range, visit:
www.fox-ess.com



up to
12kW
charge/
discharge

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-E1 AC3-10.0-E1 |
|--|---|-----------------------|-----------------------|---------------------------|
| INPUT PV (ONLY FOR HYBRID) | | | | |
| Max. Array Power [Wp] | 10000 | 12000 | 16000 | 20000 |
| Max. Input Power [W] | A:6500 B:4000 | A:6500 B:4000 | A:8000 B:5000 | A:8000 B:5000 |
| Max. Input Voltage [V] | 1000 [1] | | | |
| 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 |
| Max. Short-circuit Current [A] | 16/16 | 16/16 | 32/16 | 32/16 |
| No. of Independent MPP Trackers | 2 | | | |
| No. of Strings per MPP Tracker | 1/1 | 1/1 | 2/1 | 2/1 |
| BATTERY CONNECTION | | | | |
| Battery Type | Lithium Battery (LFP) | | | |
| Battery Voltage Range [V] | 180 ~ 600 [2] | | | |
| 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 |
| Max. AC Input Current (per phase) [A] | 15.2 | 18.2 | 24.2 | 24.2 |
| Rated Output Power [W] | 5000 | 6000 | 8000 | 10000 |
| Max. Output Apparent Power [VA] | 5500 | 6600 | 8800 | 11000 |
| Rated Output Current (per phase) [A] | 7.2 | 8.7 | 11.6 | 14.5 |
| Max. Output Current (per phase) [A] | 8.0 | 9.6 | 12.8 | 16.0 |
| 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 |
| Peak Output Apparent Power (60s) [VA] | 10000 | 12000 | 14000 | 15000 |
| Max. Output Current (per phase) [A] | 15.2 | 18.2 | 21.2 | 22.7 |
| 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 | | | | |
| Euro Efficiency [%] | 97.20 | 97.20 | 97.30 | 97.30 |
| Max. Efficiency [%] | 97.80 | 97.80 | 98.00 | 98.00 |
| Max. Battery Charge Efficiency (PV to BAT) (@full load) [%] | 98.50 | | | |
| Max. Battery Discharge Efficiency (BAT to AC) (@full load) [%] | 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 | | | |
| GENERAL DATA | | | | |
| Dimensions (W*H*D) [mm] | 449*519*198 | | | |
| Weight [kg] | 28 | | | |
| Installation | Wall-Mounted | | | |
| Topology | Transformerless | | | |
| Cooling Method | Natural | | | FAN Cooling |
| Noise Emission [db] | 35 | | | 45 |
| Max. Operating Altitude [m] | 2000 | | | |
| Operating Temperature Range [°C] | -25 ~ 60 | | | |
| Humidity (No Condensation) [%] | 0 ~ 100 | | | |
| Ingress protection | 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.

[1] For 1000V system, PV maximum operating voltage is 950V.

[2] Min. operation battery voltage is 150V.