



H1(G2)/AC1(G2)

SINGLE-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.

3kW ...>> 6kW



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



up to
6kW
charge/
discharge

TECHNICAL SPECIFICATIONS

| MODEL | H1-3.0-E-G2 AC1-3.0-E-G2 | H1-3.7-E-G2 AC1-3.7-E-G2 | H1-4.6-E-G2 AC1-4.6-E-G2 | H1-5.0-E-G2 AC1-5.0-E-G2 | H1-6.0-E-G2 AC1-6.0-E-G2 |
|----------------------------------------------------------------|--------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| INPUT PV (ONLY FOR HYBRID) | | | | | |
| Max. PV Array Power [Wp] | 6000 | 7400 | 9200 | 10000 | 12000 |
| Max. Input Power [W] | 4500 | 5500 | 6900 | 7500 | 9000 |
| | A:2250 B:2250 | A:2750 B:2750 | A:3450 B:3450 | A:3750 B:3750 | A:4500 B:4500 |
| Max. Input Voltage [V] | | | 600 | | |
| Start-up Input Voltage [V] | | | 75 | | |
| Rated Input Voltage [V] | | | 360 | | |
| MPPT Operating Voltage Range [V] | | | 80 ~ 550 | | |
| Max. Input Current [A] | | | 16 / 16 | | |
| Max. Short-circuit Current [A] | | | 20 / 20 | | |
| No. of Independent MPP Trackers | | | 2 | | |
| No. of Strings per MPP Tracker | | | 1 | | |
| BATTERY CONNECTION | | | | | |
| Battery Type | Lithium Battery (LFP) | | | | |
| Battery Voltage [V] | 80 ~ 480 | | | | |
| Max. Charge/Discharge Current [A] | 40 | | | | |
| Communication Interface | CAN(communicate with inverter, upgrade BMS) | | | | |
| AC INPUT AND OUTPUT (GRID) | | | | | |
| Max. AC Input Power [VA] | 6000 | 7680 | 9200 | 10000 | 12000 |
| Max. AC Input Current (per phase) [A] | 27.3 | 34.9 | 41.8 | 45.5 | 54.5 |
| Rated Output Power [W] | 3000 | 3680 | 4600 | 5000 | 6000 |
| Max. Output Apparent Power [VA] | 3300 | 4048/3680 ¹ | 5060 | 5500 | 6600 |
| Rated Output Current (per phase) [A] | 13.6 | 16.7/16 ¹ | 20.9 | 22.7 | 27.3 |
| Rated Output Current (per phase) [A](For AUS) | 13.0 | 16.0 | 20.0 | 21.7 | 26.1 |
| Max. Output Current [A] | 15.0 | 18.4 | 23.0 | 25.0 | 30.0 |
| Rated Grid Voltage [V] | 220/230/240 | | | | |
| Rated Grid Frequency [Hz] | 50/60 | | | | |
| Power Factor | 1 (Adjustable from 0.8 leading to 0.8 lagging) | | | | |
| THDi [%] | <3 @rated power | | | | |
| EPS OUTPUT (WITH BATTERY) | | | | | |
| Max. Output Apparent Power [VA] | 3000 | 3680 | 4600 | 5000 | 6000 |
| Rated Output Power [W] | 3000 | 3680 | 4600 | 5000 | 6000 |
| Peak Output Apparent Power (60s) [VA] | 3600 | 4400 | 5500 | 6000 | 7200 |
| Max. Current (per phase) [A] | 13.6 | 16.7 | 20.9 | 22.7 | 27.3 |
| Rated Output Voltage [V] | 220/230/240 | | | | |
| Rated Output Frequency [Hz] | 50/60 | | | | |
| Power Factor | 1 (Adjustable from 0.8 leading to 0.8 lagging) | | | | |
| THDv (linear Load) [%] | <2 @rated power | | | | |
| Parallel operation [PCS] | 10 | | | | |
| Switch time [ms] | <20 | | | | |
| EFFICIENCY | | | | | |
| Euro Efficiency [%] | 95.26 | 95.70 | 96.23 | 96.30 | 96.33 |
| Max. Efficiency [%] | 97.01 | 97.08 | 97.04 | 97.08 | 97.08 |
| 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 | | | | |
| Battery Wake-up Function | YES | | | | |
| SPD | DC: Type II /AC: Type III | | | | |
| AFCI | YES | | | | |
| GENERAL DATA | | | | | |
| Dimensions (W*H*D) [mm] | 434*418*185 | | | | |
| Weight [kg] | 22 | | | | |
| Installation | Wall-Mounted | | | | |
| Topology | Non-isolated | | | | |
| Cooling Method | Natural | | | | |
| Noise Emission [dB] | 35 | | | | |
| 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(Optional) , 4G(Optional) | | | | |
| Communication | RS485, DRM, Ripple Control, USB, CAN | | | | |
| Display | LCD, App, Website | | | | |
| STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST) | | | | | |
| Safety | EN 62109-1, EN 62109-2 | | | | |
| Grid Regulation | G98, G99, EN50549, AS / NZS 4777.2 | | | | |

* More technical characteristics are available on demand and customized.
1. 3680 for G98.