DATASHEET

Single-Phase Hybrid/AC Inverter

H1-3.0 / 3.7 / 4.6 / 5.0 / 6.0-E-G2
AC1-3.0 / 3.7 / 4.6 / 5.0 / 6.0-E-G2
H1-4.6 / 5.0-E1-G2
AC1-4.6 / 5.0-E1-G2

H1(G2)&AC1(G2)

HYBRID/AC **INVERTER**

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

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

Fox ESS 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

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

IP65 Rated

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

Remote Monitoring

Monitor your system remotely via smartphone app or web portal.

REFINED – POWERFUL – FLEXIBLE

BATTERY EXPANSION

EASY UPGRADE

Expand your system easily by simply adding additional batteries. There are six battery size options, and Max. seven batteries can be installed in series, providing up to 33.24kWh of storage capacity.

For more about the FOX range, visit:

WWW.FOX-ESS.COM

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	H1-4.6-E1-G2 AC1-4.6-E1-G2	H1-5.0-E1-G2 AC1-5.0-E1-G2
INPUT PV (ONLY FOR HYBRID)							
Max. Input Power [W]	4500 A:2250 B:2250	5500 A:2750 B:2750	6900 A:3450 B:3450	7500 A:3750 B:3750	9000 A:4500 B:4500	6900 A:3450 B:3450	7500 A:3750 B:3750
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	9200	10000
Max. AC Input Current (per phase) [A]	27.3	34.9	41.8	45.5	54.5	41.8	45.5
Rated Output Power [W]	3000	3680	4600	5000	6000	4600	5000
Max. Output Apparent Power [VA]	3300	4048/3680[1]	5060	5500	6600	4600	5000
Rated Output Current (per phase) [A]	13.6	16.7/16[1]	20.9	22.7	27.3	20.9	22.7
Rated Output Current (per phase) [A](For AUS)	13.0	16.0	20.0	21.7	26.1	20.0	21.7
Max. Output Current [A]	15.0	18.4	23.0	25.0	30.0	20.9	22.7
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	4600	5000
Peak Output Apparent Power (60s) [VA]	3600	4400	5500	6000	7200	5500	6000
Max. Current (per phase) [A]	13.6	16.7	20.9	22.7	27.3	20.9	22.7
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	96.23	96.30
Max. Efficiency [%]	97.01	97.08	97.04	97.08	97.08	97.04	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 Wack-up Function	YES						
SPD	DC: Type II, /AC: Type III						
AFCI	Optional						
GENERAL DATA							
Dimensions (WxHxD) [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	AS / NZS 4777.2						

* More technical characteristics are avaliable on demand and customized.

1、3680 for G98.　　2、4600 for German and Belgium.　　3、5000 for Australia and Belgium.