



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 ...>> 5kW



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



up to
5kW
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-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
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 MPP Trackers			2	
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
Max. AC Input Current (per phase) [A]	27.3	34.9	41.8	45.5
Rated Output Power [W]	3000	3680	4600	5000
Max. Output Apparent Power [VA]	3300	4048	4600	5000
Rated Output Current (per phase) [A]	13.6	16.7	20.9	22.7
Max. Output Current [A]	15.0	18.4	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
Peak Output Apparent Power (60s) [VA]	3600	4400	5500	6000
Max. Current (per phase) [A]	13.6	16.7	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				
European Efficiency [%]	95.26	95.70	96.23	96.30
Max. Efficiency [%]	97.01	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 Wake-up Function			YES	
SPD	DC: Type II, /AC: Type III			
AFCI	Optional			
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			
EMC	EN 61000-6-2, EN 61000-6-3			
Grid Regulation	C10 / 11			