



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
Rated Apparent Power [VA]	3000	3680	4600	5000	6000
Max. Output Apparent Power [VA]	3300	4048	5060	5500	6600
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	Active Frequency Drift with Positive Feedback				
AC Short-circuit Protection	YES				
AC Overcurrent/Overvoltage Protection	YES				
DC Switch	YES				
Battery Wake-up Function	YES				
Over Voltage category	III(AC), II(DC)				
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				
Country Of Manufacture	China				
STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)					
Safety	EN 62109-1, EN 62109-2				
EMC	EN 61000-6-2, EN 61000-6-3				
Grid Regulation	EN50549-1, C10 / 11, VDE-AR-N 4105, G98, G99, CEI 0-21, NRS 097-2-1, AS / NZS 4777.2				

* More technical characteristics are available on demand and customized.