



# H1(G2)/AC1(G2)-WL

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

up to  
**6kW**  
charge/  
discharge

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](http://www.fox-ess.com)



# TECHNICAL SPECIFICATIONS

MODEL	H1-3.0-E-G2-WL AC1-3.0-E-G2-WL	H1-3.7-E-G2-WL AC1-3.7-E-G2-WL	H1-4.6-E-G2-WL AC1-4.6-E-G2-WL	H1-5.0-E-G2-WL AC1-5.0-E-G2-WL	H1-6.0-E-G2-WL AC1-6.0-E-G2-WL
<b>INPUT PV (ONLY FOR HYBRID)</b>					
Max. Array Power [Wp]	6000	7400	9200	10000	12000
Max. DC Input Power (PV1+PV2) [W]	6000	7400	9200	10000	12000
Max. MPPT Input Power (Per MPPT) [W]			6000		
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		
<b>BATTERY CONNECTION</b>					
Battery Type	Lithium Battery (LFP)				
Battery Voltage [V]	80 ~ 480				
Max. Charge/Discharge Current [A]	40				
Communication Interface	CAN(communicate with inverter, upgrade BMS)				
<b>AC INPUT AND OUTPUT (GRID)</b>					
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 <sup>1</sup>	5060	5500	6600
Rated Output Current (per phase) [A]	13.6	16.7/16.0 <sup>1</sup>	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				
<b>EPS OUTPUT (WITH BATTERY)</b>					
Max. Output Apparent Power [VA]	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]	<10				
<b>EFFICIENCY</b>					
European 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				
<b>PROTECTION</b>					
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				
<b>GENERAL DATA</b>					
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, SG Ready				
Display	LCD, App, Website				
<b>STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)</b>					
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.