

FOXESS PRODUCT CATALOGUE



RENERGY



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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**

up to
6kW
charge/
discharge



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
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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. Array Power [Wp]	6000	7400	9200	10000	12000
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
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
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	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				
Grid Regulation	G98, G99, EN50549, AS / NZS 4777.2				

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



KH/KA

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up to
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charge/
discharge



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7kW ...>> 10.5kW



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TECHNICAL SPECIFICATIONS

MODEL	KH7 KA7	KH8 KA8	KH9 KA9	KH10 KA10	KH10.5 KA10.5
ELECTRICAL CHARACTERISTICS					
Battery Type			Li-Ion		
Battery Voltage Range [V]			85 ~ 480		
Recommended Battery Voltage [V]			300		
Max. Charge Current [A]			50		
Max. Discharge Current [A]			50		
Communication Interfaces			CAN / RS485		
Reverse Connect Protection			YES		
INPUT PV (FOR KH ONLY)					
Max. Array Power [Wp]	15000	16000	18000	20000	21000
Max. Input Power [W]	10500	12000	13500	15000	15000
Max. DC Voltage [V]			600		
Normal DC Operating Voltage [V]			360		
Max. Input Current (Input A / Input B) [A]	16 / 16 / 16	16 / 16 / 16	16 / 16 / 16 / 16	16 / 16 / 16 / 16	16 / 16 / 16 / 16
Max. Short Circuit Current (Input A / Input B) [A]	20 / 20 / 20	20 / 20 / 20	20 / 20 / 20 / 20	20 / 20 / 20 / 20	20 / 20 / 20 / 20
Max. Inverter Backfeed Current to the Array [mA]			0		
MPPT Voltage Range [V]			80 ~ 500		
Start-up Voltage [V]			75		
No. of MPP Trackers	3	3	4	4	4
Strings Per MPP Tracker			1		
DC Disconnection Switch			Optional		
OUTPUT AC					
Normal AC Power [VA]	7000	8000	9000	10000	10500
Max. Apparent AC power [VA]	7700	8800	9900	10500	10500
Rated Grid Voltage (AC Voltage Range) [V]			220 / 230 / 240 (180 ~ 270)		
Rated Grid Frequency [Hz]			50 / 60, ±5		
Normal AC Current [A]	30.4	34.8	39.1	43.5	45.7
Max. AC Current [A]	33.5	38.3	43.0	45.7	47.7
Displacement Power Factor			0.8 Leading to 0.8 Lagging		
Total Harmonic Distortion (THDi, Rated Power) [%]			<3		
INPUT AC					
Max AC Power [VA]	14000	16000	18000	18000	18000
Max. AC Current [A]	60.9	69.6	78.3	78.3	78.3
Rated Grid Voltage (AC Voltage Range) [V]			220 / 230 / 240 (180 ~ 270)		
Rated Grid Frequency [Hz]			50 / 60, ±5		
EPS OUTPUT (WITH BATTERY)					
Max. EPS Power [VA]	7000	8000	9000	10000	10500
EPS Rated Voltage [V], Frequency [Hz]			220/230/240, 50 / 60		
Max. EPS Current [A]	31.8	36.4	40.9	45.5	47.7
EPS Peak Power (60s) [W]	10000	10000	12000	12000	12000
Switch Time [ms]			<20		
Total Harmonic Distortion (THDv, Linear Load) [%]			<2		
Parallel Operation			Yes @max10PCS		
EFFICIENCY					
MPPT Efficiency [%]			99.90		
Euro-Efficiency [%]			97.40		
Max. Efficiency [%]			97.80		
Max. Battery Charge Efficiency (PV to BAT) (@Full Load) [%]			98.50		
Max. Battery Discharge Efficiency (BAT to AC) (@Full Load) [%]			97.00		
PROTECTION					
PV Reverse Polarity Protection			YES		
Batter Reverse Protection			YES		
Anti-islanding Protection			YES		
Output Short Protection			YES		
Leakage Current Protection			YES		
Insulation Resistor Detection			YES		
Over-current Protection / Over-temperature Protection			YES		
Over Voltage Category			III (AC side), II (DC side)		
AC/DC Surge Protection			Type II / Type II		
AFCI Protection			Optional		
POWER CONSUMPTION					
Standby Consumption [W] (Ldle)			<15		
STANDARD					
Safety			IEC62109-1 / IEC62109-2 / IEC 62477-1		
EMC			EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3		
Certification			G99 / EN50549 / NRS 097-2-1		
ENVIRONMENT LIMIT					
Ingress Protection			IP65		
Protective Class			Class I		
Operating Temperature Range [°C]			-25 ~ +60 (Derating at +45)		
Humidity [%]			0 ~ 95 (Non-condensing)		
Altitude [m]			<2000		
Storage Temperature [°C]			-40 ~ +70		
Noise Emission (Typical) [dB]			<30		
DIMENSION AND WEIGHT					
Dimensions (W * H * D) [mm]			450*527*208		
Weight [kg]			29 (KH) / 27.5 (KA)		
Cooling Concept			Natural		
Topology			Non-isolated		
Communication			Meter(Optional), WIFI, 4G (Optional), DRM, USB, CT, RS485		
LCD Display			Backlight 16*4 Character		

* More technical characteristics are available on demand and customized.



H3/AC3

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up to
12kW
charge/
discharge



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H3 **5kW** ...>>> **12kW** 
AC3 **5kW** ...>>> **10kW**



For more information about the Fox ESS range, visit:
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TECHNICAL SPECIFICATIONS

MODEL	H3-5.0-E AC3-5.0-E	H3-6.0-E AC3-6.0-E	H3-8.0-E AC3-8.0-E	H3-10.0-E AC3-10.0-E	H3-12.0-E
INPUT PV (ONLY FOR HYBRID)					
Max. Array Power [Wp]	10000	12000	16000	20000	24000
Max. Input Power [W]	A:6500 B:4000	A:6500 B:4000	A:8000 B:5000	A:8000 B:5000	A:8000 B:5000
Max. Input Voltage [V]			1000 [1]		
Start-up Input Voltage [V]			160		
Rated Input Voltage [V]			720		
MPPT Operating Voltage Range [V]			160 ~ 950		
Max. Input Current [A]	14/14	14/14	26/14	26/14	26/14
Max. Short-circuit Current [A]	16/16	16/16	32/16	32/16	32/16
No. of Independent MPP Trackers			2		
No. of Strings per MPP Tracker	1/1	1/1	2/1	2/1	2/1
BATTERY CONNECTION					
Battery Type	Lithium Battery (LFP)				
Battery Voltage Range [V]	180 ~ 600 [2]				
Max. Charge/Discharge Current [A]	26.0				
Communication Interface	CAN(Communicate with inverter), RS485 (Upgrade BMS)				
AC INPUT AND OUTPUT (GRID)					
Max. AC Input Power [VA]	10000	12000	16000	16000	16000
Max. AC Input Current (per phase) [A]	15.2	18.2	24.2	24.2	24.2
Rated Output Power [W]	5000	6000	8000	10000	12000
Max. Output Apparent Power [VA]	5500	6600	8800	11000	13200
Rated Output Current (per phase) [A]	7.2	8.7	11.6	14.5	17.4
Max. Output Current (per phase) [A]	8.0	9.6	12.8	16.0	19.2
Rated Grid Voltage [V]	3L/N/PE 380/220; 400/230; 415/240				
Rated Grid Frequency [Hz]	50/60				
Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)				
THDI [%]	<3 @Rated Power				
EPS OUTPUT					
Max. Output Apparent Power [VA]	5000	6000	8000	10000	12000
Peak Output Apparent Power (60s) [VA]	10000	12000	14000	15000	15000
Max. Output Current (per phase) [A]	15.2	18.2	21.2	22.7	22.7
Rated Output Voltage [V]	3L/N/PE 400/230				
Rated Output Frequency [Hz]	50/60				
Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)				
THDv (linear Load) [%]	<3 @Rated Power				
Switch time [ms]	<20				
EFFICIENCY					
Euro Efficiency [%]	97.20	97.20	97.30	97.30	97.30
Max. Efficiency [%]	97.80	97.80	98.00	98.00	98.00
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				
SPD	DC: Type II, /AC: Type II				
AFCI	Optional				
GENERAL DATA					
Dimensions (W*H*D) [mm]	449*519*198				
Weight [kg]	28				
Installation	Wall-Mounted				
Topology	Transformerless				
Cooling Method	Natural		FAN Cooling		
Noise Emission [db]	35		45		
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, 4G, GPRS (Optional)				
Communication	2*RS485, DRM, Ripple Control, USB				
Display	LCD, App, Website				
STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)					
Safety	EN 62109-1, EN 62109-2, EN 62477-1				
EMC	IEC 61000-6-1, IEC 61000-6-3				
Grid Regulation	EN50549-1, C10/11, VDE-AR-N 4105, G98, CEI 0-21				

* More technical characteristics are available on demand and customized.

[1] For 1000V system, PV maximum operating voltage is 950V.

[2] Min. operation battery voltage is 150V.



H3 Smart

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5kW ...>>> 15kW



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TECHNICAL SPECIFICATIONS

Model	H3-5.0-Smart	H3-6.0-Smart	H3-8.0-Smart	H3-9.9-Smart	H3-10.0-Smart	H3-12.0-Smart	H3-15.0-Smart
PV INPUT							
Max. Array Power [Wp]	11000	14000	18000	20000	20000	24000	30000
Max. DC Input Power [W]	11000	13200	17600	18000	18000	22500	22500
Max. DC Voltage [V]				1000 [1]			
Normal DC Operating Voltage [V]				620			
Max. MPPT Input Current [A]				20/20/20			
Max. MPPT Short Circuit Current [A]				25/25/25			
Max. MPPT Input Power [W]				10000/10000/10000			
Min. Operating PV Voltage [V]				90 [2]			
MPPT Voltage Range [V]				120 ~ 950			
Start-up Input Voltage [V]				140			
No. of MPP Trackers				3			
Strings per MPP Tracker				1+1+1			
BATTERY							
Battery Type				Lithium-Ion battery (LFP)			
Battery Voltage [V]				100 ~ 800			
Min. Operating Battery Voltage [V]				100			
Min. Battery Voltage @Full AC Load [V]	108	125	160	210	210	250	310
Max. Charge/ Discharge Current [A]				50.0			
Communication Interface				CAN			
AC OUTPUT							
Normal AC Power [W]	5000	6000	8000	9900	10000	12000	15000
Max. Apparent AC Power [VA]	5500	6600	8800	9900	11000 [3]	13200	16500
Rated Grid Voltage (AC Voltage Range) [V]				400/230Vac; 380/220Vac, 3L/N/PE			
Rated Grid Frequency [Hz]				50/60, ±5			
Rated AC Current [A] (Per Phase)	7.6	9.1	12.1	15.0	15.2	18.2	22.7
Max. AC Current [A] (Per Phase)	8.3	10.0	13.3	15.0	16.7	20.0	25.0
Power Factor				1(Adjustable from 0.8 leading to 0.8 lagging)			
THDI [%]				<3 @rated power			
AC INPUT							
Max. AC Power [VA]	6000	7200	9600	12000	12000	14400	16000
Rated Grid Voltage (AC Voltage Range) [V]				400/230Vac; 380/220Vac, 3L/N/PE			
Rated Grid Frequency [Hz]				50/60, ±5			
Max. AC Current [A] (Per Phase)	9.1	10.9	14.5	18.2	18.2	21.8	24.2
EPS OUTPUT							
Max. Apparent AC Power [VA]	5000	6000	8000	10000	10000	12000	15000
Peak Apparent AC Power [VA] (60s)	6000	7200	9600	12000	12000	14400	15000
Rated Output Voltage [V]				400/230Vac; 380/220Vac, 3L/N/PE			
Rated Grid Frequency [Hz]				50/60			
EPS Max. Current [A] (Per Phase)	7.2	8.7	11.6	14.5	14.5	17.4	21.7
Power Factor				1(Adjustable from 0.8 leading to 0.8 lagging)			
Switch Time [ms]				<20			
THDV [%]				<3 @Linear load			
EFFICIENCY							
MPPT Efficiency [%]				99.90			
Max. Efficiency [%]	97.30	97.70	97.70	97.90	97.90	97.90	97.90
Euro-Efficiency [%]				97.20			
PROTECTION							
PV Reverse Polarity Protection				YES			
Battery Reverse Protection				YES			
Anti-Islanding Protection				YES			
Output Short Protection				YES			
Leakage Current Protection				YES			
Insulation Resistor Detection				YES			
Over Voltage Category				III(AC side), II(DC side)			
Reverse Connect Protection				YES			
Over-Current Protection/Over-Temperature Protection				YES			
DC/AC Surge Protection				Type II(PV)/Type II(AC)			
AFCI Protection				Optional			
DC Switch				YES			
GENERAL DATA							
Dimensions (W*H*D) [mm]				600*450*226			
Dimension of Packing (W*H*D) [mm]				665*545*390			
Net Weight [kg]				34			
Gross Weight [kg]				40			
Installation				Wall-mounted			
Operating Temperature Range [°C]				-25 ~ +60 (Derating at 45)			
Storage Temperature [°C]				-40 ~ +70			
Storage/Operation Relative Humidity [%]				0 ~ 100			
Altitude [m]				<4000 @Derating exceeding 2000			
Protective Class				I			
Ingress Protection				IP65 (For outdoor use)			
Standby Consumption [W]				20 ~ 25			
standby Mode				YES			
Cooling	Natural	Natural	Natural	Natural	Natural	FAN cooling	FAN cooling
Noise Grade [dB]	<40	<40	<40	<40	<40	<55	<55
Inverter Topology				Non-isolated			
Communication Interface		Ethernet, EMS(RS485), Meter, WiLAN(Wifi+LAN+Bluetooth), 4G(Optional), DRM, Ripple Control, USB, BMS(CAN), 5G Ready					
LCD Display				Backlight 16*4 character			
Standard Warranty [year]				10			
Button				Capacitive touch sensor *4			
Buzzer				1, inside(EPS&Earth fault)			

[1] For 1000V system, PV Maximum operating voltage is 950V.

[2] The starting working voltage of the power supply is 90V.

[3] Belgian safety regulations require an apparent power of 10000W to be 10000VA.



H3 PRO

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15kW ...>> 30kW



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TECHNICAL SPECIFICATIONS

MODEL	H3-Pro-15.0	H3-Pro-20.0	H3-Pro-24.9	H3-Pro-25.0	H3-Pro-29.9	H3-Pro-30.0
PV INPUT(ONLY FOR HYBRID)						
Max. Array Power [Wp]	30000	40000	50000	50000	60000	60000
Max. Recommended DC Power [W] ^[1]	7500/7500/7500	10000/10000/10000	12500/12500/12500	12500/12500/12500	15000/15000/15000	15000/15000/15000
Max. DC Voltage [V] ^[2]				1000		
Normal DC Operating Voltage [V]				750		
Max. Input Current [A]				32		
Max. Short Circuit Current [A]				40		
MPPT Voltage Range [V]				150 ~ 850		
MPPT Voltage Range [V] (full load)	170 ~ 850	230 ~ 850	280 ~ 850	280 ~ 850	340 ~ 850	340 ~ 850
Start-up Voltage [V]				160		
No. of MPP Trackers				3		
Strings Per MPP Tracker				2/2/2		
Max. Inverter Backfeed Current to the Array				0		
BATTERY						
Battery Type				Lithium Battery		
Battery Voltage [V]				150 ~ 800		
Full AC Load Battery Voltage [V]	160 ~ 790	220 ~ 790	270 ~ 790	270 ~ 790	330 ~ 790	330 ~ 790
Max. Charge/ Discharge Current [A]				50+50		
Number of Battery Input				2		
Communication Interface				CAN		
AC OUTPUT						
Normal AC Power [VA]	15000	20000	24900	25000	29900	30000
Max. Apparent AC Power [VA]	16500	22000	24900	27500	29900	33000
Rated Grid Voltage (AC Voltage Range) [VAC]			400 / 230 ; 380 / 220 , 3L / N / PE			
Rated Grid Frequency [Hz]			50 / 60 , ±5			
Max. AC Current [A] (Per Phase)	25.0	33.3	37.7	41.7	45.4	50.0
Power Factor			1(Adjustable from 0.8 Leading to 0.8 Lagging)			
Export Control			YES			
THDI [%]			<3 @Rated Power			
AC INPUT						
Max. AC Power [VA]	22500	30000	35000	35000	35000	35000
Rated Grid Voltage (AC Voltage Range) [V]			400 / 230 ; 380 / 220 , 3L / N / PE			
Rated Grid Frequency [Hz]			50 / 60 , ±5			
Max. AC Current [A] (Per Phase)	34.1	45.5	53.0	53.0	53.0	53.0
Power Factor			1(Adjustable from 0.8 Leading to 0.8 Lagging)			
EPS OUTPUT						
Max. Apparent AC Power [VA]	15000	20000	25000	25000	30000	30000
Peak Apparent AC Power [VA] (60s)	18000	24000	30000	30000	36000	36000
Rated Output Voltage [V]			400 / 230 ; 380 / 220 , 3L / N / PE			
Rated Grid Frequency [Hz]			50 / 60			
EPS Max. Current [A] (Per Phase)	22.7	30.3	37.9	37.9	45.5	45.5
Power Factor			1(Adjustable from 0.8 Leading to 0.8 Lagging)			
Parallel Operation			Yes @Max10PCS			
Switch Time [ms]			<20			
THDV [%]			<3 @Rated Power			
EFFICIENCY						
MPPT Efficiency [%]	99.90	99.90	99.90	99.90	99.90	99.90
Max. Efficiency [%]	97.80	97.80	97.80	97.80	97.80	97.80
Max. Battery to AC Efficiency [%]	97.60	97.60	97.60	97.60	97.60	97.60
Max. PV to Battery Efficiency [%]	98.10	98.10	98.10	98.10	98.10	98.10
Euro-Efficiency [%]	97.30	97.40	97.40	97.40	97.40	97.40
PROTECTION						
PV Reverse Polarity Protection				YES		
Batter Reverse Protection				YES		
Anti-Islanding Protection				YES		
Output Short Protection				YES		
Leakage Current Protection				YES		
Insulation Resistor Detection				YES		
Over Voltage Category			III (AC Side) , II (DC Side)			
Reverse Connect Protection			YES			
Over-current Protection / Over-temperature Protection			YES			
AC/DC Surge Protection			Type II/Type II			
AFCI Protection			Optional			
DC Switch			Optional			
String Monitoring Function			Optional			
GENERAL DATA						
Dimension (W*H*D) [mm]			600*560*225			
Dimension of Packing (W*H*D) [mm]			720*680*370			
Net Weight [kg]			52.5			
Gross Weight [kg]			57.5			
Installation			Wall-mounted			
Operating Temperature Range [°C]			-25 ~ +60 (Derating at 45)			
Storage Temperature [°C]			-40 ~ +70			
Noise Emission(typical) [dB]	<45	<45	<60	<60	<60	<60
Storage/Operation Relative Humidity [%]			0 ~ 95 (Without Condensation)			
Altitude [m]			<4000			
Protective Class			I			
Ingress Protection			IP65 (for Outdoor Use)			
Standby Consumption [W]			200 for Hot Standby , 18 for Cold Standby			
Idle Mode			YES			
Cooling			Smart FAN Cooling			
Inverter Topology			Non-isolated			
Communication Interface			Meter, WIFI, 4G(optional), DRM, USB, BMS(CAN), RS485			
LCD Display			Backlight 16*4 Character			
Button			Capacitive Touch Sensor *4			
Buzzer			1, Inside (EPS&Earth Fault)			
STANDARD COMPLIANCE MORE AVAILABLE UPON REQUEST						
Safety			EN 62109-1, EN 62109-2			
EMC			IEC 61000-6-2, IEC 61000-6-3			

*More technical characteristics are available on demand and customized.

[1] Per MPP max. PV input power 15kW.

[2] For 1000V system, Maximum operating voltage is 950V. PV input voltage greater than 955V, PV overvoltage error will be reported.



H3-Plus

THREE-PHASE **HYBRID INVERTER**



LONG BACK UP CAPABILITY

More than 3 hours backup power available.



EPS FUNCTION

Less than 10ms switch time.



HIGH EFFICIENCY

Ensuring optimal energy conversion and minimal losses.



FLEXIBLE APPLICATION

With power range and battery configuration to suit different project requirements.



Advanced System Monitoring
with **FoxCloud V2.0**



Fox ESS H3-Plus is a state-of-the-art hybrid inverter models designed for maximum efficiency and reliability. With outstanding specifications and advanced features it is a market changer in commercial applications.

50kW ...>> 100kW



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

TECHNICAL SPECIFICATIONS

MODEL	H3-50-Plus	H3-60-Plus	H3-75-Plus	H3-80-Plus	H3-100-Plus
BATTERY SPECIFICATION					
Battery Type				LFP	
Voltage Range [V]				180 ~ 950	
Max. Charging/Discharging Current [A]				3*80	
Battery Port				3	
Communication				CAN	
DC SPECIFICATION					
Max. DC Array Power [kW]	100	120	150	160	200
Max. DC Input Power [kW]	100	120	150	160	200
Max. DC Voltage [V]				1000	
Input Voltage Range [V]				180 ~ 950	
Start up Voltage [V]				180	
MPPT Voltage Range [V]				180 ~ 850	
MPPT No. / String per MPPT	4/2	4/2	8/2	8/2	8/2
Max. Current per MPPT [A]				40	
Max. Short Circuit Current per MPPT [A]				55	
AC SPECIFICATION					
Nominal AC Output [kW]	50	60	75	80	100
Max. AC Output [kVA]	55	66	82.5	88	110
Nominal AC Output Current [A]	380V	76.0	91.2	113.9	152
	400V	72.2	86.6	108.3	144.4
Max. AC Output Current [A]	380V	83.6	100.3	125.4	167.2
	400V	79.4	95.3	119.1	158.8
Max. Bypass Current [A]				300	
Nominal AC Voltage [V]				380/400, 3W+N+PE or 3W+PE	
AC Output Voltage Range [Un]				0.8 ~ 1.2	
Nominal AC Input Frequency [Hz]				50/60	
Frequency Range [Hz]				45 ~ 55 / 55 ~ 65	
Power Factor				0.8 Leading ~ 0.8 Lagging	
Max. THDi [%]				<3	
DC Injection Current [%]				0.5	
On/off grid Switch Time [ms]				<10	
Peak Current (off-grid)				225A, 10s	
LRA Current [A]				300	
Max. THDu (Off-grid) [%]				<3 (Linear Load)	
EFFICIENCY					
Euro Efficiency [%]				97.6	
Max. Efficiency [%]				98.2	
PROTECTION					
DC Input Switch				Yes	
Battery Reverse Polarity				Yes	
PV Reverse Polarity				Yes	
AC Over Current Protection				Yes	
AC Output Short Circuit Protection				Yes	
AC/DC Surge Protection				Class II	
ISO Detection				Yes	
Residual Current Detection				Yes	
Ground Fault Detection				Yes	
AFCI				Yes	
String Current Detection				Yes	
GENERAL SPECIFICATION					
Dimension (W*H*D) [mm]				700*950*300	
Weight [kg]	100	100	110		
Working Temperature [°C]				-30 ~ 60	
Cooling Method				Smart Air Cooling	110
Working Altitude [m]				4000	
Humidity [%]				0 ~ 100	
Noise [dB]				<70	
Night Consumption [W]				<60	
DC-Link EV Charger Ready				20 ~ 50	
IP Rating				IP65	
Topology				Non-Isolation	
Display				LED, Wi-Fi+APP, Touch LCD	
Communication Ports				USB / RS485 / Bluetooth / Wi-Fi+LAN / 4G(Optional) / CAN	



ALL-IN-ONE

G-MAX SERIES

COMMERCIAL AND INDUSTRIAL ENERGY STORAGE SYSTEM



SAFETY

Compartmentalized design with a preventive alarm system.



ECONOMIC

Zero power loss through efficient temperature control and frequency variation.



INTELLIGENT

Offers multiple operation modes, including Peak Shaving, Load Shedding, PV-Storage Energy Control, and Frequency Regulation. Operating data can be transmitted to Fox ESS Cloud via Wi-Fi, 4G or 5G.



AUGMENTABLE

Preconfigured during manufacturing, plug and play onsite. Capable of parallel connection upgrades for flexible system size application.

The G-MAX Series accommodates "All-in-one" design philosophy, integrating battery with longevity, intelligent BMS, high performance PCS, preventive safety system, smart distribution system and heat dissipation management system into one standard container for standardized manufacturing (for outdoor application) and simpler installation.

100kW



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



TECHNICAL SPECIFICATIONS

MODEL	GM215kWh-100kW-2h
BATTERY MODULE DATA	
Battery Type [V/Ah]	LFP 3.2/280
Battery Pack Capacity [kWh]	53.76
Battery System Capacity [kWh]	215
Operating Voltage Range [V]	672 ~ 876
Number of Temperature Sensor	128
Battery Pack Protection Level	IP67
AC OUTPUT DATA	
Rated Output Power [kW]	100
Peak Output Power [kW]	110
THDi [%]	<3
Nominal Voltage [Vac]	380/400, 3L/N/PE
Power Factor	>0.99
Adjustable Power Factor Range	-1 ~ 1 (leading ~ lagging)
Nominal Frequency [Hz]	50/60
SYSTEM DATA	
Round Trip Efficiency [%]	>89
DOD [%]	0 ~ 100
Cycle Life	≥8000@70%EOL
Communication Interfaces	Ethernet
Ingress Protection	IP54
Cooling type	Liquid cooling
Altitude [m]	≤3000
Operation Temperature [°C]	-25 ~ 55
Operation Humidity [%]	0 ~ 95, non-condensing
Noise [dB]	<75 @1m
Dimension (W*D*H) [mm]	1040*1500*2200
Fire Protection	Aerosol
Weight [kg]	<2500
Grid Code	CEI-021/EN 50549-1/EN 50549-2
Safety/EMC	IEC 62619/IEC 60730-1 appended H/IEC 62477-1/IEC 61000-6-2,4/UN 38.3



EP5

INTEGRATED WITH WARMING FUNCTION



Smart Battery Warming

- Scalable to 20.8kWh
- 90% Depth of Discharge
- Floor or Wall Mounting
- Compact & Easy Installation
- IP65 Protection Level
- High Voltage and High Efficiency



BATTERY WARMING



SAFETY RELIABLE



EASY INSTALLATION



HIGH EFFICIENCY



EXPANDABLE SYSTEM



90% DOD



BUILT-IN FIRE SUPPRESSION

The EP5 is a high-performance, scalable battery storage system, allows for maximum flexibility, making it suitable for a broad range of storage applications.

Additional batteries can be installed in parallel allowing for a maximum storage capacity of 20.8kWh.



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



TECHNICAL SPECIFICATIONS

SYSTEM NAME	EPS
ELECTRICAL CHARACTERISTICS	
Compatible PCS	All Series of H1, KH, H3, H3-Pro, US
Battery Type	LiFePO ₄ Prismatic Cell
Nominal Energy [kWh]	5.18
Nominal Voltage [V]	192
Operating Voltage [V]	174 ~ 219
Max.Charge/Discharge Current [A]* ¹	27
Recommend Charge Current [A]	13.5
Peak Discharge Current [A]	65 @60s
Peak Charge Current [A]	32.4 @5s
Battery Pack Round-Trip Efficiency [%]	≥95
Depth of Discharge [%]	90
Cycle Life* ²	≥6000
Communication	CAN
Display	LED*5
Scalability	Max. 4 Units in Parallel
OPERATING CONDITIONS	
Installation Location	Outdoor/ Indoor
Operating Temperature [°C]	Charge: -25 ~ 55 Discharge: -25 ~ 55
Storage Temperature [°C]	0 ~ 35
Cooling Method	Natural Convection
Humidity [%]	5 ~ 95 (No Condensing)
Altitude [m]	Max. 3,000
MECHANICAL CHARACTERISTICS	
Dimensions (W*H*D) [mm]	380*625*147
Weight [kg]	50.5±2
CERTIFICATES	
Safety	IEC62619
EMC	EN IEC 61000-6-1/3
Transportation	UN38.3
Ingress Protection	IP65

*1, The current is affected by temperature, cell voltage and SOC.

*2, @25C, @70% SOH, @90% DOD, 1C charging/discharging.



EP11

INTEGRATED WITH WARMING FUNCTION



Smart Battery Warming

- Scalable to 41.6kWh
- 90% Depth of Discharge
- Floor or Wall Mounting
- Compact & Easy Installation
- IP65 Protection Level
- High Voltage and High Efficiency

BATTERY WARMING

SAFETY RELIABLE

EASY INSTALLATION

HIGH EFFICIENCY

EXPANDABLE SYSTEM

90% DOD

BUILT-IN FIRE SUPPRESSION

The EP11 is a high-performance, scalable battery storage system, allows for maximum flexibility, making it suitable for a broad range of storage applications.

Additional batteries can be installed in parallel allowing for a maximum storage capacity of 41.6kWh.



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



TECHNICAL SPECIFICATIONS

SYSTEM NAME	EP11
ELECTRICAL CHARACTERISTICS	
Compatible PCS	All Series of H1, KH, H3, H3-Pro, US
Battery Type	LiFePO ₄ Prismatic Cell
Nominal Energy [kWh]	10.36
Nominal Voltage [V]	384
Operating Voltage [V]	348 ~ 438
Max.Charge/Discharge Current [A]* ¹	27
Recommend Charge Current [A]	13.5
Peak Discharge Current [A]	65 @60s
Peak Charge Current [A]	32.4 @5s
Battery Pack Round-Trip Efficiency [%]	≥95
Depth of Discharge [%]	90
Cycle Life* ²	≥6000
Communication	CAN
Display	LED*5
Scalability	Max. 4 Units in Parallel
OPERATING CONDITIONS	
Installation Location	Outdoor/ Indoor
Operating Temperature [°C]	Charge: -25 ~ 55 Discharge: -25 ~ 55
Storage Temperature [°C]	0 ~ 35
Cooling Method	Natural Convection
Humidity [%]	5 ~ 95 (No Condensing)
Altitude [m]	Max. 3,000
MECHANICAL CHARACTERISTICS	
Dimensions (W*H*D) [mm]	710*625*147
Weight [kg]	99±2
CERTIFICATES	
Safety	IEC62619
EMC	EN IEC 61000-6-1/3
Transportation	UN38.3
Ingress Protection	IP65

*1, The current is affected by temperature, cell voltage and SOC.

*2, @25C, @70% SOH, @90% DOD, 1C charging/discharging.



S SERIES (G2)

SINGLE-PHASE INVERTER



HIGH PERFORMANCE

Low start-up voltage, wide voltage range, 97.4% maximum efficiency.



EASY INSTALLATION

Flexible configuration, plug and play set-up.



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

Fox ESS offers a range of single MPPT single-phase inverters offering unparalleled efficiency and performance. Our range starts with the S700-G2 – small and compact and with an ultra-low start-up voltage that will ensure you harvest the most energy possible from your solar panels.

0.7kW ...>>> 3.3kW



For more about the Fox ESS range of single-phase inverters, visit:

www.fox-ess.com



TECHNICAL SPECIFICATIONS

MODEL	S700-G2	S1000-G2	S1500-G2	S2000-G2	S2500-G2	S3000-G2	S3300-G2
INPUT (PV)							
Max. Input Power[W]	1050	1500	2250	3000	3750	4500	4950
Max. Input Voltage[V]				500			
Start-up Input Voltage[V]				60			
Rated Input Voltage[V]				360			
MPPT Operating Voltage Range[V]				50 ~ 480			
Max. Input Current[A]				14			
Max. Short-circuit Current[A]				18			
No. of Independent MPP Trackers				1			
No. of Strings per MPP Tracker				1			
OUTPUT (AC)							
Rated Output Power[W]	700	1000	1500	2000	2500	3000	3300
Max. Output Apparent Power[VA]	800	1100	1650	2200	2750	3300	3300
Rated Grid Voltage[V]				220/230/240			
Rated Grid Frequency[Hz]				50/60			
Rated Output Current[A]	3.0	4.3	6.5	8.7	10.9	13.0	14.3
Max. Output Current[A]	3.5	4.8	7.2	9.6	12.0	14.3	14.3
Power Factor				1 (Adjustable from 0.8 leading to 0.8 lagging)			
Total Harmonic Distortion (THDi) [%]				<3			
EFFICIENCY							
MPPT Efficiency [%]	99.00	99.00	99.00	99.00	99.00	99.00	99.00
Euro-Efficiency [%]	96.50	96.50	96.50	96.80	96.80	96.80	96.80
Max. Efficiency [%]	97.20	97.20	97.30	97.40	97.40	97.40	97.40
PROTECTION							
Insulation Monitoring				YES			
Residual Current Monitoring				YES			
DC Reverse Polarity Protection				YES			
Anti-islanding Protection				YES			
AC Short-circuit Protection				YES			
AC Overcurrent Protection				YES			
AC Overvoltage Protection				YES			
Surge Protection				Optional (DC/AC: Type II)			
DC Switch				Optional			
AFCI				Optional			
GENERAL DATA							
Dimensions (W*H*D)[mm]				290*220*116			
Weight[kg]				5.4			
Cooling Method				Natural Convection			
Topology				Non-isolated			
Noise Emission (typical)[dB]				<30			
Max. Operating Altitude[m]				3000			
Operating Temperature Range[°C]				-25 ~ 60			
Humidity [%]				0 ~ 100 (No Condensation)			
Ingress Protection				IP65			
Internal Consumption at Night[W]				<1			
Monitoring Module				WIFI / 4G (Optional)			
Communication				RS485, Meter / CT, ISO Alarm			
Display				LCD, Touch Key, App, Website			
STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)							
Safety				EN 62109-1:2010, EN 62109-2:2011			
EMC				EN IEC 61000-6-3:2021, EN IEC 61000-6-4:2019, EN IEC 61000-6-1:2019, EN IEC 61000-6-2:2019, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021			
Grid Regulation				ABNT NBR 16149, ABNT NBR 16150, C10/11, EN 50549-1, PN EN-50549-1, VDE V 0126-1-1, IEC 61727, IEC 62116, IEC 61683, IEC 60068-2-1/2/14/30/64, G98			



T SERIES (G3)

THREE-PHASE **INVERTER**



HIGH PERFORMANCE

Low start-up voltage, wide voltage range, 98.6% maximum efficiency.



EASY INSTALLATION

Flexible configuration, plug and play set-up.



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

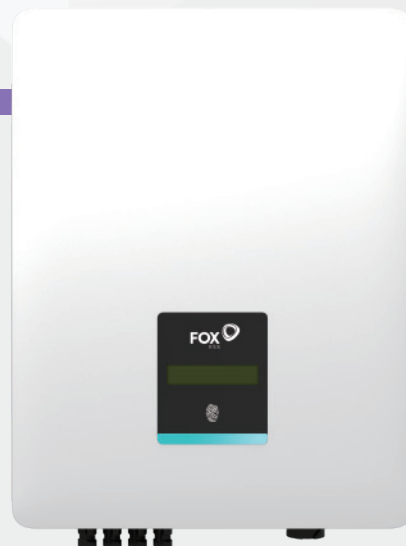
The T Series(G3) inverter range is aimed at three-phase domestic and small-scale commercial installations, offering unrivalled performance and versatility for increased yield potential and longer generation windows. The three-phase T Series(G3) inverter options range from 3kW to 25kW.

3kW ...>> 25kW



For more about the Fox ESS range of three-phase inverters, visit:

www.fox-ess.com



TECHNICAL SPECIFICATIONS

MODEL	T3-G3	T4-G3	T5-G3	T6-G3	T8-G3	T10-G3	T12-G3	T15-G3	T17-G3	T20-G3	T23-G3	T25-G3
INPUT (PV)												
Max. Input Power[W]	4500	6000	7500	9000	12000	15000	18000	22500	25500	30000	34500	37500
Max. Input Voltage[V]	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100
Start-up Input Voltage[V]	140	140	140	140	140	140	140	140	140	140	140	140
Rated Input Voltage[V]	600	600	600	600	600	600	600	600	600	600	600	600
MPPT Operating Voltage Range[V]	140 ~ 1000	140 ~ 1000	140 ~ 1000	140 ~ 1000	140 ~ 1000	140 ~ 1000	140 ~ 1000	140 ~ 1000	140 ~ 1000	140 ~ 1000	140 ~ 1000	140 ~ 1000
Max. Input Current[A]	14	14	14	14	14	14	14	28	28	28	28	28
Max. Short-circuit Current[A]	18.2	18.2	18.2	18.2	18.2	18.2	18.2	36.4	36.4	36.4	36.4	36.4
No. of Independent MPP Trackers	2	2	2	2	2	2	2	2	2	2	2	2
No. of Strings per MPP Tracker	1+1	1+1	1+1	1+1	1+1	1+1	1+1	2+2	2+2	2+2	2+2	2+2
OUTPUT (AC)												
Rated Output Power[W]	3000	4000	5000	6000	8000	10000	12000	15000	17000	20000	23000	25000
Max. Output Apparent Power[VA]	3300	4400	5500	6600	8800	11000	13200	16500	18700	22000	25300	27500
Rated Grid Voltage[V]	3/N/PE, 220/380, 230/400, 240/415											
Rated Grid Frequency[Hz]	50/60											
Rated Output Current[A]	4.3	5.8	7.2	8.7	11.6	14.5	17.4	21.7	24.6	29.0	33.3	36.2
Max. Output Current[A]	4.8	6.4	8.0	9.6	12.8	15.9	19.1	23.9	27.1	31.9	36.7	39.9
Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)											
Total Harmonic Distortion [THDi] [%]	<3											
EFFICIENCY												
MPPT Efficiency [%]	99.8											
Euro Efficiency [%]	97.8											
Max. Efficiency [%]	98.6											
PROTECTION												
Insulation Monitoring	YES											
Residual Current Monitoring	YES											
PV String Current Monitoring	Yes						Optional					
DC Reverse Polarity Protection	YES											
Anti-islanding Protection	YES											
AC Short-circuit Protection	YES											
AC Overcurrent Protection	YES											
AC Overvoltage Protection	YES											
Surge Protection	DC/AC: Type II											
DC Switch	Optional											
AFCI	Optional											
GENERAL DATA												
Dimensions (W*H*D) [mm]	370*480*183.5											
Weight [kg]	17	17	17	17	17	17	17	20	20	20	21	21
Cooling Method	Natural Convection						Fan					
Topology	Transformerless											
Noise Emission (typical) [dB]	<30	<30	<30	<30	<30	<30	<30	<55	<55	<55	<55	<55
Max. Operating Altitude [m]	3000											
Operating Temperature Range [°C]	-25 ~ 60											
Humidity [%]	0 ~ 100 (No Condensation)											
Ingress Protection	IP65											
Internal Consumption at Night [W]	<3											
Monitoring Module	WIFI / 4G (Optional)											
Communication	RS485, Meter, DRM, Estop											
Display	LCD, Touch Key, App, Website											
STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)												
Safety	EN 62109-1/2, BIS IS 16169, BIS IS 16221-1/2											
EMC	EN 61000-6-1/2/3/4											
Grid Regulation	AS/NZS-4777.2, C10/11, EN50549-1, PN EN-50549-1, VDE-AR- N4105, RD 1699, CEI 0-21, NB/T 32004, VDE V 0126-1-1, UTE C 15-712-1											



V SERIES

THREE-PHASE **INVERTER**



PV STRING
CURRENT MONITORING



AFCI FUNCTION



PID RECOVERY



IP66 RATED

REFINED – POWERFUL – FLEXIBLE

The V Series inverter range is aimed at three-phase domestic commercial installations, offering unrivalled performance and versatility for increased yield potential and longer generation windows. The three-phase V Series inverter options range from 30kW to 75kW.

30kW ...>> 75kW



For more about the Fox ESS range of three-phase inverters, visit:

www.fox-ess.com



TECHNICAL SPECIFICATIONS

MODEL	V30	V33	V36	V40	V50	V60	V75
INPUT(PV)							
Max. Input Voltage [V]				1100			
Start-up Input Voltage [V]				250			
Rated Input Voltage [V]				600			
MPPT Operating Voltage Range [V]				200 ~ 1000			
MPPT Voltage Range [V] (Full load)				550 ~ 800			
Max. Input Current per MPPT [A]				40			
Max. Short-circuit Current [A]				50			
No. of Independent MPP Trackers	3	3	4	4	4	6	6
No. of Strings per MPP Tracker				2			
OUTPUT(AC)							
Nominal Output Power [kW]	30	33	36	40	50	60	75
Nominal Output Apparent Power [kVA]	30	33	36	40	50	60	75
Max. AC Active Power [kW]	33	36.3	39.6	44	55	66	75
Max. AC Apparent Power [kVA]	33	36.3	39.6	44	55	66	75
Nominal Output Voltage [V]				380/400, 3W+N+PE			
Nominal AC Grid Frequency [Hz]				50/60			
AC Grid Frequency Range [Hz]				45 ~ 55 / 55 ~ 65			
Max. Output Current [A]	50.2	55.2	60.2	66.9	83.6	100.3	114
Output Power Factor				0.8 leading to 0.8 lagging			
Total Harmonic Distortion [%]				<3 at Nominal Output Power			
EFFICIENCY							
Euro-Efficiency [%]	98.4	98.4	98.4	98.4	98.1	98.1	98.1
Max. Efficiency [%]	98.7	98.7	98.7	98.7	98.5	98.5	98.5
PROTECTION							
DC Switch				YES			
DC Reverse Polarity Protection				YES			
AC Short-circuit Protection				YES			
AC Overcurrent Protection				YES			
Insulation Monitoring				YES			
Residual Current Monitoring				YES			
PV String Current Monitoring				YES			
Surge Protection				DC Type II / AC Type II			
PID Recovery				YES			
AFCI				Optional			
Grid monitoring				YES			
Night SVG				YES			
Anti-Corrosion				C5			
GENERAL DATA							
Dimensions (W*H*D) [mm]				640*430*243			
Weight [kg]	41	41	42	42	50	50	50
Cooling Method				Smart air cooling / FAN			
Max. Operating Altitude [m]				4000			
Operating Temperature Range [°C]				-30 ~ 60			
Humidity [%]				0 ~ 100 (No Condensation)			
Ingress Protection				IP66			
Pollution Degree				PD 2 (inside), PD 3 (outside)			
Protective class				Class I			
Over Voltage Category				II (DC), III (AC)			
Communication				RS485/USB/Wi-Fi+LAN/4G			
Display				LED, Wi-Fi+APP			



R SERIES(G2)

THREE-PHASE **INVERTER**



PV STRING
CURRENT MONITORING



AFCI FUNCTION



PID RECOVERY



IP66 RATED

REFINED – POWERFUL – FLEXIBLE

The R Series(G2) inverter range is aimed at three-phase commercial installations, offering unrivalled performance and versatility for increased yield potential and longer generation windows. The three-phase R Series(G2) inverter options range from 75kW to 136kW.

75kW ...>> 136kW



For more about the Fox ESS range of three-phase inverters, visit:

www.fox-ess.com



TECHNICAL SPECIFICATIONS

MODEL	R75-G2	R80-G2	R100-G2	R110-G2	R125-G2	R136-G2
INPUT(DC)						
Max. Input Voltage [V]				1100		
Start-up Input Voltage [V]				250		
Rated Input Voltage [V]				600		
MPPT Operating Voltage Range [V] (Full Load)				550 ~ 850		
MPPT Operating Voltage Range [Vdc]				200 ~ 1000		
No. of Independent MPP Trackers	9/2	9/2	9/2	10/2	10/2	10/2
Max. Input Current [A]				40		
Max. Short-circuit Current [A]				50		
OUTPUT(AC)						
Rated Output Power [kW]	75	80	100	110	125	136
Max. Output Apparent Power [kVA]	75*/82.5	88	110	121	137.5	138
Max. Output Current [A]	113.7*/125	133.3	166.7	183.3	199.3	200
Rated Grid Voltage [Vac]				400, 3W+N+PE		
Grid Voltage Range [Vac]				320 ~ 480		
Grid Frequency Range [HZ]				45 ~ 55 / 55 ~ 65		
Adjustable Power Factor				0.8 Leading ~ 0.8 Lagging		
THDi [%]				<3		
EFFICIENCY						
Max. Efficiency [%]				98.6		
Euro. Efficiency [%]				98.2		
PROTECTION						
DC Switch				Yes		
DC Reverse Polarity Protection				Yes		
AC Overcurrent Protection				Yes		
AC Short-circuit Protection				Yes		
Surge Protection				DC Type II / AC Type II		
PID Recovery				Yes		
Insulation Monitoring				Yes		
Residual Current Monitoring				Yes		
AFCI				Optional		
PV String Current Monitoring				Optional		
GENERAL DATA						
Dimensions (W*H*D) [mm]				975*630*360		
Weight [kg]				90		
Operating Temperature [°C]				-30 ~ 60		
Cooling Method				Smart Air Cooling		
Operating Altitude [m]				4000 (>3000m Derating)		
Relative Humidity Range [%]				0 ~ 100 (Non-Condensing)		
Night Power Consumption [W]				3.5		
Ingress Protection Rating				IP66		
Isolation Method				Non-isolated		
Display				LED,Wi-Fi+APP		
Communication				RS485 / USB / Wi-Fi+LAN / 4G (Bluetooth)		
DC Connection Type				MC4 Similar		
AC Connection Type				OT Terminal		
STANDARD						

IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, IEC 61000-6-3, EN 50549

* Only for Brazil Market

Version: 1.2 | 2024/11/08



A SERIES

EV CHARGER



PLUG VERSION

- | | | |
|---------|-------|--------------|
| • A7300 | 7.3kW | SINGLE-PHASE |
| • A011K | 11kW | THREE-PHASE |
| • A022K | 22kW | THREE-PHASE |



DURABILITY

IP55 and IK08 protection.



OCPP-COMPLIANT

OCPP1.6J or OCPP2.0.1



DYNAMIC LOAD BALANCE

Dynamic adjustment of charging power.



SOLAR LINKAGE

PV power can be used directly.



SCHEDULED TIME CHARGING

Set the charging time as you wish.



MULTIPLE CONNECTIVITY OPTIONS

Bluetooth, WiFi, 4G, Ethernet.

TECHNICAL SPECIFICATIONS

MODEL	A7300P1-E1	A7300P1-E-2	A011KP1-E-2	A022KP1-E-2	A7300P1-E-A	A011KP1-E-A	A022KP1-E-A
TYPE							
CHARGING PLUG							
INPUT							
Wiring Scheme	1P+N+PE	1P+N+PE	3P+N+PE	3P+N+PE	1P+N+PE	3P+N+PE	3P+N+PE
Voltage [Vac]	230±20%	230±20%	400±20%	400±20%	230±20%	400±20%	400±20%
Maximum Current [A]	32	32	16	32	32	16	32
Frequency [Hz]	50/60						
OUTPUT							
Voltage [Vac]	230±20%	230±20%	400±20%	400±20%	230±20%	400±20%	400±20%
Maximum Current [A]	32	32	16	32	32	16	32
Rated Power [kW]	7.3	7.3	11	22	7.3	11	22
USER INTERFACE & CONTROL							
Connector Type	Type 2 plug						
RFID Reader	Mifare ISO/IEC 14443 A						
Start Mode	Plug&Charge/RFID card/APP						
COMMUNICATION							
Bluetooth	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WiFi	Yes	Yes	Yes	Yes	Optional	Optional	Optional
OCPP 1.6 or 2.0	NO	Optional	Optional	Optional	Optional	Optional	Optional
4G	NO	Optional	Optional	Optional	Optional	Optional	Optional
LAN	NO	NO	NO	NO	YES	YES	YES
ENVIRONMENT							
Installation	Wall-mount / Post-mount						
Operating Temperature [°C]	-30 ~ 50						
Operating Humidity [%]	5 ~ 95 , No condensation						
Operating Altitude [m]	≤2000						
DIMENSION AND WEIGHT							
Product Dimension (W*H*D) [mm]	320*190*130						
Product Weight [kg]	5.6						
SAFETY							
IP protection rating	IP55						
IK protection rating	IK08						
Residual Current Detection*[mA]	DC 6						
Electrical Protection	Over current protection, Ground protection, Surge protection, Over/Under voltage protection, Over temperature protection						
EMC	Class B						
Certification	CE/UKCA						
Certification Standard	EN/IEC 61851-1: 2019, EN/IEC 61851-21-2: 2021						

*Internal RCD-DD meets the trip time characteristics specified in IEC 62955.

*External RCCB is required.

*Select Type A or Type B according to local regulations.

H-VERSE



For All Technical Queries,
Kindly Contact Our Centralized Technical Department.

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