



PRODUCT BROCHURE

INVERTER • BATTERY • EV CHARGER



CONTENTS

WHO WE ARE

ABOUT FOX ESS	1
---------------	---

PV INVERTER

F SERIES - SINGLE PHASE	3 - 6kW	3
G SERIES - SINGLE PHASE	7 - 10.5kW	5
T SERIES - THREE PHASE	3 - 30kW	7
V SERIES - THREE PHASE	30 - 75kW	9
R SERIES - THREE PHASE	75 - 136kW	11

HYBRID INVERTER

H1/AC1 SERIES - SINGLE PHASE	3 - 6kW	13
KH/KA SERIES - SINGLE PHASE	7 - 10.5kW	15
S22 SERIES - SINGLE PHASE	0.8kW	17
P100 SERIES - SINGLE PHASE	5 - 10kW + 10kWh	19
STACKABLE AIO - SINGLE PHASE	3.7 - 12kW + 14.04 - 49.14kWh	21
STACKABLE AIO - THREE PHASE	5 - 15kW + 14.04 - 84.24kWh	25
P3-S SERIES - THREE PHASE	5 - 15kW	29
P3 PRO SERIES - THREE PHASE	15 - 30kW	31
P3 PLUS SERIES - THREE PHASE	50 - 125kW	33

C&I STORAGE

G-MAX SERIES - THREE PHASE	100kW + 215kWh, AC Coupled	35
G-MAX PLUS SERIES - THREE PHASE	50/60/80/100/125kW + 241kWh, Hybrid	37

MICROINVERTER

M SERIES - SINGLE PHASE	0.6 - 1.2kW	39
Q SERIES - SINGLE PHASE	1.6 - 2.4kW	41

BATTERY

CQ7 SERIES	7.02kWh	14.04 - 98.28kWh	43
CQ16 SERIES	16.07kWh	64.28 - 241.05kWh	45
EP6 SERIES	5.76kWh	5.76- 23.04kWh	47
EP12 SERIES	11.52kWh	11.52 - 46.08kWh	49

EV CHARGER

A SERIES - SINGLE PHASE/THREE PHASE	7.3/11/22kW	51
--	-------------	-----------

ACCESSORY

EPS BOX PRO	53
EPS BOX PRO-HC	55
EPS BOX-SP	57

PROJECT PICTURES

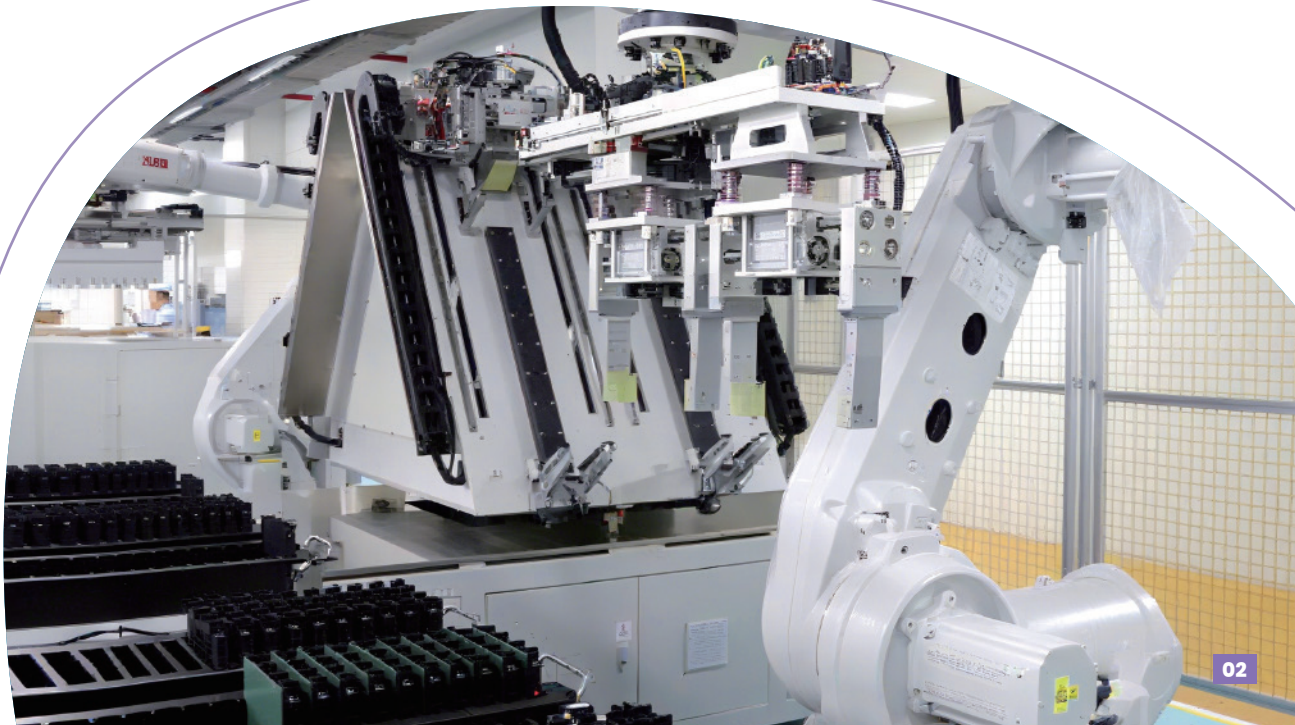


WHO WE ARE

Founded in 2019, Fox ESS specializes in the R&D, production, and sales of energy storage inverters, battery systems, heat pumps, and EV chargers. The company provides advanced distributed energy and storage products, along with smart energy management solutions for residential, industrial, and commercial users. Fox ESS aims to help customers effectively manage the entire process of new energy generation, storage, and consumption, thereby improving energy efficiency and reducing electricity usage.

RESEARCH & DEVELOPMENT

The core of Fox ESS is a number of advanced R&D centers located in Wenzhou, Shanghai, Wuxi, and Wuhan. In these R&D centers, hundreds of engineers and technicians are tirelessly improving the products to ensure that Fox ESS's photovoltaic inverters, energy storage systems, and other products always maintain a leading position. The R&D team of Fox ESS is mainly composed of experts in inverter and energy storage technologies, including a variety of senior technical experts with rich experience in well-known enterprises in the industry.





F SERIES

SINGLE-PHASE **INVERTER**



HIGH PERFORMANCE

Low start-up voltage, wide voltage range, 97.6% 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.

3kW ...>>> 6kW



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

REFINED – POWERFUL – FLEXIBLE

Fox ESS offers a range of dual MPPT single-phase inverter offering unparalleled efficiency and performance. Our range starts with the F3000 – small and compact and with an ultra-low start-up voltage that will ensure you harvest the most energy possible from your solar panels.



For more about the Fox ESS range of single-phase inverters, visit:
www.fox-ess.com



TECHNICAL SPECIFICATIONS

MODEL	F3000	F3600	F4600	F5000	F5300	F6000
INPUT(PV)						
Max. Input Power [W]* ¹	6000	7200	9200	10000	10600	12000
Max. Input Voltage [V]* ²				600		
Nominal DC Operating Voltage [V]				360		
Max. Input Current (Input A/Input B) [A]				20/20		
Max. Short Circuit Current (Input A/Input B) [A]				26/26		
MPPT Voltage Range [V]				60 ~ 550		
MPPT Voltage Range (Full Load) [V]	90 ~ 550	100 ~ 550	130 ~ 550	140 ~ 550	150 ~ 550	160 ~ 550
Start-up Voltage of LCD [V]				60		
Start-up Voltage of Operation [V]				80		
No. of MPP Trackers				2		
Strings per MPP Tracker				1+1		
Max. Inverter Backfeed Current to the Array [mA]				0		
OUTPUT(AC)						
Nominal Active AC Power [W]	3000	3600	4600	5000	5300	6000
Max. Apparent AC Power [VA]	3300	3960	5060	5500	5830	6600
Rated Grid Voltage [V]				220/230/240		
Rated Grid Frequency [Hz]				50/60, ±5		
Nominal AC Current [A]	13.6	16.4	20.9	22.7	24.1	27.3
Max. AC Current [A]	15.0	18.0	23.0	25.0	26.5	30.0
Inrush Current [A]				7.9 @50us		
Max. Output Fault Current [A]				167 @10us		
Max. Output Overcurrent Protection [A]				75		
Displacement Power Factor			1 (Adjustable from 0.8 leading to 0.8 lagging)			
THDi [%]			<3 @Rated Output			
EFFICIENCY						
Max. MPPT Efficiency [%]	99.80	99.80	99.80	99.90	99.90	99.90
European Efficiency [%]	96.80	96.80	96.80	97.00	97.00	97.00
Max. Efficiency [%]	97.60	97.60	97.60	97.60	97.60	97.60
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		
Temperature Protection				YES		
Surge Protection			Type II (DC) and Type II (AC)			
DC Switch				Optional		
AFCI				Optional		
Night Mode				Optional		
GENERAL DATA						
Dimensions (W*H*D) [mm]			358*335*155			
Weight [kg]			≤9.5			
Cooling Method			Natural			
Protective Class			I			
Ingress Protection (According to IEC60529)			IP65			
Topology			Non-isolated			
Overvoltage Category			III (AC side), II (PV side)			
Noise Emission (typical) [dB] @1m			<30			
Max. Operating Altitude [m]			3000			
Operating Temperature Range [°C]			-25 ~ +60 (Derating at +45)			
Storage Temperature Range [°C]			-40 ~ +70			
Humidity [%]			0 ~ 100 (No Condensation)			
Standby Consumption [W]			<1 (Without night mode), <3 (With night mode)			
Pollution Degree			II			
Monitoring Module	Internal Wifi, and external WIFI module/4G module/LAN Module as optional					
Communication	Meter, CT, RS485, DRM (For AU only)					
Display	LCD, LED, App,Website					
STANDARD						
Certification	IEC62109, NBR-W220BR2022, AS4777, G100, CEI21, IEC61727					

*1 Max. operation power for each MPPT is 4000W.

*2 The inverter will report a error once the PV voltage is higher than 585V.



G SERIES

SINGLE-PHASE **INVERTER**



7kW ...➡➡➡ 10.5kW



HIGH PERFORMANCE

Low start-up voltage, wide voltage range, 97.8% 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-phase inverter offering unparalleled efficiency and performance. The single-phase G Series inverter options range from 7kW to 10.5kW.



For more about the Fox ESS range of single-phase inverters, visit:
www.fox-ess.com



TECHNICAL SPECIFICATIONS

MODEL	G7-VB	G7.5-VB	G8-VB	G9-VB	G9.9-VB	G10-VB	G10.5-VB
INPUT (PV)							
Max. PV Array Power [W] [1]	14000	15000	16000	18000	19800	20000	21000
Max. DC Voltage [V] [2]				600			
Nominal DC Operating Voltage [V]				360			
Max. Input Current (Input A / Input B) [A]				20/32			
Max. Short-Circuit Current (Input A / Input B) [A]				26/42			
MPPT Voltage Range [Vdc]				60 ~ 550			
MPPT Voltage Range (Full Load) [Vdc]	150 ~ 550	160 ~ 550	170 ~ 550	190 ~ 550	210 ~ 550	210 ~ 550	220 ~ 550
LCD Start-Up Voltage [V]				60			
Operating Start-Up Voltage [V]				80			
No. of MPP Trackers				2			
Strings per MPP Tracker				1+2			
Max. Inverter Backfeed Current to the Array [mA]				0			
OUTPUT (AC)							
Nominal Active AC Power [W]	7000	7500	8000	9000	9900	10000	10500
Max. Apparent AC Power [VA]	7500	7500	8800	9900	9900	11000	11000
Rated Grid Voltage (AC Voltage Range) [V]				220/230/240			
Rated grid Frequency [Hz]				50/60, ±5			
Nominal AC Current [A]	31.8	34.1	36.4	40.9	45.0	45.5	47.7
Max. AC Current [A]	34.1	34.1	40.0	45.0	49.5	50.0	50.0
Inrush Current [A]				7.9@50us			
Max. Output Fault Current [A]				167@10us			
Max. Output Overcurrent Protection [A]				75			
Displacement Power Factor			1 (Adjustable from 0.8 leading to 0.8 lagging)				
Total Harmonic Distortion (THDi) [%]			<3 @rated output				
EFFICIENCY							
Max. MPPT Efficiency [%]	99.80	99.80	99.80	99.90	99.90	99.90	99.90
European Efficiency [%]				97.40			
Max. Efficiency [%]				97.80			
PROTECTION							
DC Reverse Polarity Protection				YES			
Anti-Islanding Protection				YES			
Insulation Monitoring				YES			
Residual Current Monitoring				YES			
AC Short-Circuit Protection				YES			
AC Output Overcurrent Protection				YES			
AC Output Overvoltage Protection				YES			
Surge Protection			Type II (DC) and Type II (AC)				
Temperature Protection				YES			
Integrated DC Switch				YES			
AFCI Protection				Optional			
Night Mode				Optional			
GENERAL DATA							
Dimensions (W*H*D) [mm]				395*380*187			
Net Weight [kg]				15.5			
Cooling Method				Natural			
Protective Class				I			
Ingress Protection (According to IEC60529)				IP65			
Topology				Non-Isolated			
Overvoltage Category				III (AC side), II (PV side)			
Noise Emission (Typical) [dB] @1m				<30			
Max. Operating Altitude [m]				3000			
Operating Temperature Range [°C]				-25 ~ 60 (Derating at +45)			
Storage Temperature Range [°C]				-40 ~ 70			
Humidity [%]				0 ~ 100 (No Condensation)			
Self-Consumption at Night [W]			<1 (without Night Mode), <5 (with Night Mode)				
Pollution Degree				II			
Monitoring Module (Optional)		Internal Wi-Fi, and external Wi-Fi module/4G module/LAN module as optional					
Communication				Meter, CT, RS485, DRM (for AU only)			
Display				App, Website			
STANDARD							
Certification	IEC62109, NBR-W220BR2022, AS4777, G98, G99, G100, IEC61727						

[1] Max. operating power for MPPT1 is 4000W. Max. operating power for MPPT2 is 8000W.

[2] The inverter will report an error once the PV voltage is higher than 585V.



T SERIES

THREE-PHASE **INVERTER**



3kW ... 30kW



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.



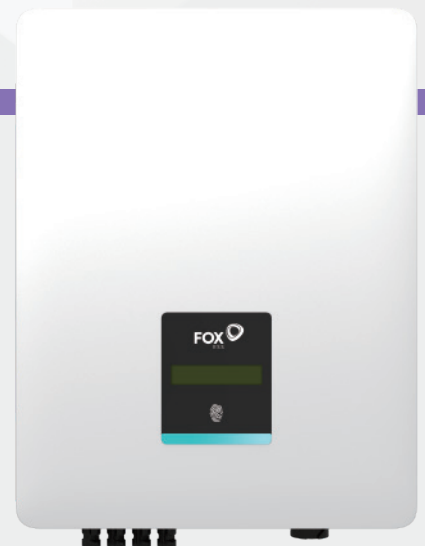
Advanced System Monitoring
with **FoxCloud V2.0**

REFINED – POWERFUL – FLEXIBLE

The T Series 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 inverter options range from 3kW to 30kW.



For more about the Fox ESS range of three-phase inverters, visit:
www.fox-ess.com



TECHNICAL SPECIFICATIONS

MODEL	T3-M	T4-M	T5-M	T6-M	T8-M	T10-M	T12-M	T15-M	T17-M	T20-M	T23-M	T25-M	T30-M
INPUT (PV)													
Max. PV Array Power [W]	6000	8000	10000	12000	16000	20000	24000	30000	34000	40000	46000	50000	60000
Max. Input Voltage [V]	1100 [1]												
Min. Input Voltage [V]	140 [2]												
Start-up Input Voltage [V]	160												
Nominal Voltage [V]	600												
MPP Voltage Range [V]	140 ~ 1000												
MPP Voltage Range (full load) [V]	140 ~ 850	140 ~ 850	140 ~ 850	160 ~ 850	210 ~ 850	260 ~ 850	310 ~ 850	250 ~ 850	220 ~ 850	260 ~ 850	295 ~ 850	320 ~ 850	385 ~ 850
Max. PV Input Current [A]	20/20	20/20	20/20	20/20	20/20	20/20	20/20	32/32	40/40	40/40	40/40	40/40	40/40
Max. Isc PV Current [A]	25/25	25/25	25/25	25/25	25/25	25/25	25/25	40/40	50/50	50/50	50/50	50/50	50/50
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	2+2
No. of MPP Trackers	2												
OUTPUT (AC)													
Rated Output Power [W]	3000	4000	5000	6000	8000	10000	12000	15000	17000	20000	23000	25000	30000
Rated Apparent Power [VA]	3000	4000	5000	6000	8000	10000	12000	15000	17000	20000	23000	25000	30000
Max. Apparent Power [VA]	3300	4400	5500	6600	8800	11000	13200	16500	22000	22000	25300	27500	33000
Nominal Voltage [V]	415/240; 400/230; 380/220, 3L/N/PE												
Nominal Frequency [Hz]	50/60, ±5												
Rated Output Current (Per Phase) [A]	4.5	6.1	7.6	9.1	12.1	15.2	18.2	22.7	25.8	30.3	34.8	37.9	45.5
Max. Output Current (Per Phase) [A]	4.8	6.4	8.0	9.6	12.8	15.9	19.1	23.9	31.9	31.9	36.7	39.9	47.8
Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)												
THDi [%]	<3 @rated power												
EFFICIENCY													
MPPT Efficiency [%]	99.8												
Max. Efficiency [%]	98.6												
European Efficiency [%]	97.8												
PROTECTION													
String Current Monitoring	YES												
DC Reverse Polarity Protection	YES												
Anti-islanding Protection	YES												
Output Short Protection	YES												
Leakage Current Protection	YES												
Insulation Resistance Detection	YES												
Grid Reverse Connect Protection	YES												
Overcurrent Protection	YES												
Overtemperature Protection	YES												
DC/AC Surge Protection	Type II (DC) / Type II (AC)												
DC Switch	YES												
AFCI Protection	Optional												
GENERAL DATA													
Dimension (W*H*D) [mm]	370*450*183.5												
Dimension of Packing (W*H*D) [mm]	454*592*312												
Net Weight [kg]	17.5	17.5	17.5	17.5	17.5	17.5	17.5	19.5	20.5	20.5	20.5	20.5	22.5
Installation	Wall-mounted												
Operating Temperature Range [°C]	-25 ~ 60 (Derating at 45)												
Storage Temperature [°C]	-40 ~ 70												
Storage/Operation Relative Humidity [%]	0 ~ 100 (No Condensation)												
Altitude [m]	3000												
Protective Class	I												
Overvoltage Category	III (AC), II (DC)												
Pollution Degree	PD3 (PD2 inside)												
Ingress Protection	IP65 (For Outdoor Use)												
Standby consumption [W]	<3												
Cooling Method	Natural	Natural	Natural	Natural	Natural	Natural	Natural	FAN	FAN	FAN	FAN	FAN	FAN
Noise Emission [dB]	<30	<30	<30	<30	<30	<30	<30	<55	<55	<55	<55	<55	<55
Inverter Topology	Non-Isolated												
Communication Interface	WIFI/4G (Optional), RS485												
Display	LCD, App, Website												

[1] For 1100V system, PV maximum operating voltage is 1020V.
[2] The starting working voltage of the power supply is 140V.



V SERIES

THREE-PHASE **INVERTER**



PV STRING MONITORING

Real time PV string current sampling and monitoring, with string performance analysis and report abnormal condition capability.



PID RECOVERY

Improving panel efficiency over life time and prevents further degradation with auto detection and adjustment.



AFCI FUNCTION

Providing safe and reliable protection against arc, and accurate and fast response to ensure man and device safety.



IP66 RATED

Reliable performance under extreme environment and temperature condition, extending product life with minimum effort.

30kW ... 75kW

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.



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. Recommended DC Power [kW]	60	66	72	80	100	120	150
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 MPP Trackers	3	3	4	4	4	6	6
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						
THDi [%]	<3 at Nominal Output Power						
EFFICIENCY							
European 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			
Anti-islanding Protection				YES			
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						
STANDARD COMPLIANCE							
Grid Regulation	EN50549-1						



R SERIES(G2)

THREE-PHASE **INVERTER**



75kW ... 136kW



PV STRING MONITORING

Real time PV string current sampling and monitoring, with string performance analysis and report abnormal condition capability.



PID RECOVERY

Improving panel efficiency over life time and prevents further degradation with auto detection and adjustment.



AFCI FUNCTION

Providing safe and reliable protection against arc, and accurate and fast response to ensure man and device safety.



IP66 RATED

Reliable performance under extreme environment and temperature condition, extending product life with minimum effort.

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.



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. Array Power [kWp]	150	160	200	220	250	272
Max. DC Input Power [kW]	150	160	200	220	250	272
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 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]	82.5	88	110	121	137.5	138
Max. Output Current [A]	125	133.3	166.7	183.3	199.3	200
Rated Grid Voltage [Vac]			400, 3W+N+PE			
AC Voltage Range [Vac]			320 ~ 460			
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			
European 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 (Derating at 50)			
Cooling Method			Smart Air Cooling			
Operating Altitude [m]			4000 (>3000m Derating)			
Relative Humidity Range [%]			0 ~ 100 (No condensation)			
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



H1(G2)/AC1(G2)-WL

SINGLE-PHASE **HYBRID/AC INVERTER**



3kW ...>> 6kW



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.

2.5kW...>> 6kW



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



TECHNICAL SPECIFICATIONS

MODEL	H1-2.5-E-G2-WL AC1-2.5-E-G2-WL	H1-3.0-E-G2-WL AC1-3.0-E-G2-WL	H1-3.7-E-G2-WL AC1-3.7-E-G2-WL	H1-4.0-E-G2-WL AC1-4.0-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
INPUT PV (ONLY FOR HYBRID)							
Max. Array Power [Wp]	5000	6000	7400	8000	9200	10000	12000
Max. DC Input Power (PV1+PV2) [W]	5000	6000	7400	8000	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			
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]	3000	6000	7680	8000	9200	10000	12000
Max. AC Input Current (per phase) [A]	13.6	27.3	34.9	36.4	41.8	45.5	54.5
Rated Output Power [W]	2500	3000	3680	4000	4600	5000	6000
Max. Output Apparent Power [VA]	2750	3300	4048/3680 ¹	4400	5060	5500	6600
Rated Output Current (per phase) [A]	11.4	13.6	16.7/16.0 ¹	18.2	20.9	22.7	27.3
Max. Output Current [A]	12.5	15.0	18.4	20.0	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]	2500	3000	3680	4000	4600	5000	6000
Peak Output Apparent Power (60s) [VA]	3000	3600	4400	4800	5500	6000	7200
Max. Current (per phase) [A]	11.4	13.6	16.7	18.2	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			
EFFICIENCY							
European Efficiency [%]	95.26	95.26	95.70	95.90	96.23	96.30	96.33
Max. Efficiency [%]	97.01	97.01	97.08	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, SG Ready			
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

SINGLE-PHASE **HYBRID/AC INVERTER**



7kW ...>> 10.5kW



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.



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



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				
Nominal 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					
Nominal 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				
Nominal 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				
THDi (Rated Power) [%]	<3				
INPUT AC					
Max AC Power [VA]	14000	14500	14500	14500	14500
Max. AC Current [A]	60.9	63.0	63.0	63.0	63.0
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]	<6				
THDv (Linear Load) [%]	<2				
Parallel Operation	Yes @max10PCS				
EFFICIENCY					
MPPT Efficiency [%]	99.90				
European 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				
Battery Reverse Protection	YES				
Anti-islanding Protection	YES				
Output Short Protection	YES				
Leakage Current Protection	YES				
Insulation Resistor Detection	YES				
Overcurrent Protection / Overtemperature Protection	YES				
Overvoltage Category	III (AC side), II (DC side)				
AC/DC Surge Protection	Type II / Type II				
AFCI Protection	Optional				
POWER CONSUMPTION					
Standby Consumption [W] (Idle)	<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 (No condensation)				
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				

* More technical characteristics are available on demand and customized.



0.8kW



S22

ENERGY STORAGE SYSTEM



FULLY INTEGRATED STORAGE SYSTEM

Seamlessly integrated, truly all-in-one solution.



LESS IS MORE

Sleek, minimalist design for effortless one-step installation.



EASY INSTALLATION

Flexible configuration, plug and play set-up, built-in fuse protection.



IP65 RATED

High level of protection, suitable for outdoor installation.



EPS FUNCTION



EXPAND CAPACITY



90% DOD



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

All-in-One residential micro storage system, plug and play, highly flexible and extendable.



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



TECHNICAL SPECIFICATIONS

MODEL	S22-M-H	S22-M-AC	S22-S
AC INPUT			
Nominal Voltage [V]	220/230/240	220/230/240	/
Nominal Frequency [Hz]	50/60	50/60	/
Max. Input Current [A]	5.4	5.4	/
Max. Apparent Power [VA]	1200	1200	/
AC OUTPUT			
Rated Power [W]	800	800	/
Max. Apparent Power [VA]	800	800	/
Nominal Voltage [V]	220/230/240	220/230/240	/
Nominal Frequency [Hz]	50/60	50/60	/
Rated Output Current [A]	3.6/3.5/3.3	3.6/3.5/3.3	/
Power Factor	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging	/
EPS OUTPUT			
Nominal Voltage [V]	220/230/240	220/230/240	/
Max. Output Current [A]	5.4	5.4	/
Nominal Frequency [Hz]	50/60	50/60	/
Max. Apparent Power [VA]	1200	1200	/
PV INPUT (ONLY FOR HYBRID)			
Max. Input Power [W]	2600	/	/
Absolute Max. Voltage [V]	60	/	/
MPPT Voltage Range [V]	10 ~ 60	/	/
Max. Input Current [A]	20	/	/
Max. Short Circuit Current [A]	25	/	/
No. of MPP Trackers	4	/	/
Strings per MPP Tracker	1	/	/
BATTERY TECHNICAL SPECIFICATION			
Battery Type	LiFePO ₄		
Battery Nominal Voltage [V]	35.2		
Battery Nominal Energy [kWh]	2.11		
Battery Operating Voltage [V]	31.9 ~ 40.1		
Battery Cycle Life	>6000		
Expandable Number of Batteries	1	1	4
PROTECTION			
Battery Fire Protection Function	Yes		
Battery Warming Function	Optional		
Smart Meter	Optional	Optional	/
GENERAL DATA			
Dimensions (W*H*D) [mm]	420*285*255	420*285*255	420*270*220
Weight Approximate [kg]	26.5	25.5	23
Ingress Protection	IP65		
Operating Temperature Range [°C]	-20 ~ 55		
Max. Operating Altitude [m]	2000		
Relative Humidity [%]	15 ~ 85 (No Condensing)		
Installation Style	Floor-mounted		
Display	APP & OLED & Battery LED (SOC, Alarm)	APP & OLED & Battery LED (SOC, Alarm)	/
Communication Interfaces	Wi-Fi, Bluetooth, LAN, RS485	Wi-Fi, Bluetooth, LAN, RS485	/
STANDARD COMPLIANCE			
Safety EMC/Standard	IEC62619, UN38.3, IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4		
Grid Regulation	EN50549, VDE4105, C10/11		
Battery Certification	UN38.3, IEC 62619		



P100

ENERGY STORAGE SYSTEM



5kW ...>>> 30kW

10kWh ...>>> 30kWh

Off-Grid



FULLY INTEGRATED STORAGE SYSTEM

Seamlessly integrated, truly all-in-one solution.



LESS IS MORE

Sleek, minimalist design for effortless one-step installation.



DOUBLE OFF-GRID BACKUP CAPABILITY

The system experienced a 200% overload for 10 seconds.



4MS

Support 4ms parallel off-grid switching.



IP66
RATED



EPS
FUNCTION



-20°C ~ 55°C



95%
DOD



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

A next-generation energy storage system solution with a fully-integrated inverter/charger and boasting a range of advanced features.



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



TECHNICAL SPECIFICATIONS

MODEL		P100-5-H	P100-6-H	P100-7-H	P100-8-H	P100-9-H	P100-10-H
PV INPUT (ONLY FOR HYBRID)							
Max. PV Array Power [Wp]		16000	16000	20000	20000	20000	20000
Max. Input Power [W]		15000	16000	17000	18000	19000	20000
Max. MPPT Input Power [W]		8000/8000	8000/8000	8000/8000/8000	8000/8000/8000	8000/8000/8000	8000/8000/8000
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]		20/20	20/20	20/20/20	20/20/20	20/20/20	20/20/20
Max. Short-circuit Current [A]		25/25	25/25	25/25/25	25/25/25	25/25/25	25/25/25
No. of MPP Trackers		2	2	3	3	3	3
Strings per MPP Tracker					1		
BATTERY CONNECTION							
Battery Type					LFP (LiFePO ₄)		
Battery Energy [kWh]					10.24		
Depth of Discharge [%]					95		
Cycle Life					6000		
AC INPUT AND OUTPUT (GRID)							
Output	Rated Power [W]	5000	6000	7000	8000	9000	10000
	Rated Apparent Power [VA]	5000	6000	7000	8000	9000	10000
	Max. Apparent Power [VA]	5500	6600	7700	8800	9900	11000
	Rated Output Current (Per Phase) [A]	22.7	27.3	31.8	36.4	40.9	45.5
	Max. AC Current (Per Phase) [A]	25.0	30.0	35.0	40.0	45.0	50.0
	THDi [%]				<3 @rated power		
Input	Max. Apparent Power [VA]	6000	7200	8400	9600	10800	12000
	Max. Input Current [A] (Per Phase)	27.3	32.7	38.2	43.6	49.1	54.5
Output & Input	Nominal Voltage [V]				220/230/240, L/N/PE		
	Nominal Frequency [Hz]				50/60, ±5		
	Power Factor				1(Adjustable from 0.8 leading to 0.8 lagging)		
Inrush Current [A]					15 @0.5ms		
EPS OUTPUT							
Max. Apparent Power [VA]		5000	6000	7000	8000	9000	10000
Peak Apparent Power [VA]		6000@60s	7200@60s	8400@60s	9600@60s	10800@60s	12000@60s
		7500@30s	9000@30s	10500@30s	12000@30s	13500@30s	15000@30s
		10000@10s	12000@10s	14000@10s	16000@10s	18000@10s	20000@10s
Nominal Voltage [V]					220/230/240		
Nominal Frequency [Hz]					50/60		
Max. Output Current (Per Phase) [A]		22.7@220V	27.3@220V	31.8@220V	36.4@220V	40.9@220V	45.5@220V
Power Factor					1 (Adjustable)		
Switch Time [ms]					<4		
THDV [%]					<3@Linear Load		
Parallel Operation					Yes @max 3PCS		
EFFICIENCY							
Max. Conversion Efficiency [%]					97.60		
European Efficiency [%]					97.20		
Max. Battery Charge Efficiency (PV To BAT) @full Load [%]					97.30		
Max. Battery Charge/discharge Efficiency (BAT To AC) @full Load [%]					96.40		
PROTECTION							
Insulation Monitoring					YES		
Residual Current Monitoring					YES		
DC Reverse Polarity Protection					YES		
Anti-islanding Protection					YES		
AC Short-circuit Protection					YES		
AC Overcurrent/Overvoltage Protection					YES		
DC Switch					YES		
Overvoltage Category					DC: Type II / AC: Type II		
AFCI Protection					YES		
GENERAL DATA							
Dimensions (W*H*D) [mm]					584*1009*197		
Weight [kg]					113		
Installation					Floor-mounted/Wall-mounted		
Cooling Method					Intelligent air cooling		
Noise Emission [dB]					<45, Average		
Max. Operating Altitude [m]					<4000@Derating exceeding 2000m		
Operating Temperature Range [°C]					-20 ~ 55		
Humidity (No Condensation) [%]					0 ~ 100		
Ingress Protection					IP66		
Standby Consumption [W]					<20		
Monitoring Module					WiFi, LAN, 4G		
Communication Interface		Ethernet, EMS(RS 485), Meter, WILAN(WiFi+LAN+Bluetooth), 4G(Optional), DRM, Ripple Control, USB, BMS(CAN), SG Ready					
Display					LED, LCD, APP, Website		
Supports Dual EPS Expansion					YES		
STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)							
Safety					EN/IEC 62109-1, EN/IEC 62109-2, EN/IEC62477-1,EN/IEC 62040(AU)		
EMC					EN IEC 61000-6-1:2019, EN IEC 61000-6-3:2021, EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019, IEC 62920:2017		
RED					EN 50665:2017, ENIEC 62311:2020, EN 301 489-1 V2.2.3 (2019-II), EN 301 489-17 V3.2.4 (2020-09), EN 300 328 V2.2.2(2019-07), EN 55032:2015+A11:2020+A1:2020, EN 55035:2017+A11:2020		
Grid Regulation					G99, CEI 0-21, AS/NZS 4777.2:2020, NRS 097-2-1, IEC 61727, EN 50549-1, P140/P515		
Battery Regulation					IEC62619:2022		
Transportation					UN 38.3		
Environment					ROHS, REACH, WEEE		



Stackable AIO

SINGLE-PHASE **HYBRID/AC**



FLEXIBLE APPLICATION

- Built-in 63A bypass for full house backup.
- 4ms seamless switch.
- Up to 200% PV input with 4 MPPTs, 20A per string.



EASY INSTALLATION

- Integrated configuration, plug and play set-up.
- Designed for single-person installation.



SAFE AND DURABLE

- Integrating active and passive safety.
- Intelligent AFCI function.
- IP66 and type II DC/AC surge protection.



REMOTE MONITORING

- Monitor your system remotely via smartphone App or Web portal.
- Ready for AI and VPP Apps.



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

3.7kW ... **12kW**



Stackable AIO is the latest generation of an integrated residential energy storage system, modular designed to meet various installation scenarios.



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

TECHNICAL SPECIFICATIONS

MODEL	PQ1-3.7-P	PQ1-5.0-P	PQ1-6.0-P	PQ1-7.0-P	PQ1-8.0-P	PQ1-10.0-P	PQ1-12.0-P
PV INPUT							
Max. Array Power[W]	16000	16000	20000	20000	24000	24000	24000
Max. Input Power [W]	13700	15000	18000	19000	20000	22000	24000
Max. MPPT Input Power (Per) [W]				8000			
Max. Input Voltage [V]				600 [1]			
Min. Input Voltage [V]				75			
Start-Up Input Voltage [V]				80			
Nominal Voltage [V]				360			
MPPT Voltage Range [V]				80 ~ 550			
MPPT Voltage Range (Full Load) [V]	96 ~ 550	130 ~ 550	105 ~ 550	121 ~ 550	105 ~ 550	130 ~ 550	155 ~ 550
Max. PV Input Current [A]	20/20	20/20	20/20/20	20/20/20	20/20/20/20	20/20/20/20	20/20/20/20
Max. Isc PV Current [A]	25/25	25/25	25/25/25	25/25/25	25/25/25/25	25/25/25/25	25/25/25/25
No. of MPP Trackers	2	2	3	3	4	4	4
Strings per MPP Tracker	1+1	1+1	1+1+1	1+1+1	1+1+1+1	1+1+1+1	1+1+1+1
BATTERY CONNECTION							
Battery Type	Lithium-Ion battery (LFP)						
Battery Voltage [V]	80 ~ 500						
Min. Operating Battery Voltage [V]	80						
Min. Battery Voltage @ Full AC Load [V]	78	105	125	145	165	207	247
Max. Battery Charge Power [W]	12000						
Max. Battery Discharge Power [W]	3680	5000	6000	7000	8000	10000	12000
Max. Charge/Discharge Current [A]	50/50						
Depth of Discharge [%]	90						
Scalability	YES						
AC OUTPUT							
Rated Output Power [W]	3680	5000	6000	7000	8000	10000	12000
Rated Apparent Power [VA]	3680	5000	6000	7000	8000	10000 [2]	12000
Max. Apparent Power [VA]	3680	5500	6600	7700	8800	11000 [2]	13200
Rated Grid Voltage [V]	220/230/240, L/N/PE						
Rated Grid Frequency [Hz]	50/60, ±5						
Rated Output Current [A]	16.7	22.7	27.3	31.8	36.4	45.5	54.5
Max. Output Current [A]	16.7	25.0	30.0	35.0	40.0	50.0	60.0
Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)						
THDI [%]	<3 @rated power						
AC INPUT							
Max. Apparent Power [VA]	7000	8800	11000	14500 [3]	14500 [3]	14500 [3]	14500 [3]
Rated Grid Voltage [V]	220/230/240, L/N/PE						
Rated Grid Frequency [Hz]	50/60, ±5						
Max. Input Current [A]	32.0	40.0	50.0	63.0 [3]	63.0 [3]	63.0 [3]	63.0 [3]
Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)						
EPS OUTPUT							
Max. Apparent Power [VA]	3680	5000	6000	7000	8000	10000	12000
Load Start Capability [A]	122 @2s						
Rated Output Voltage [V]	220/230/240, L/N/PE						
Rated Grid Frequency [Hz]	50/60						
Max. Output Current for Backup Load (Bybass) [A]	32.0	40.0	50.0	63.0	63.0	63.0	63.0
Max. Output Current [A]	16.7	22.7	27.3	31.8	36.4	45.5	54.5
Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)						
Parallel Operation	Yes @max3PCS						
Switch Time [ms]	<4						
THDV [%]	<3 @linear load						
EFFICIENCY							
Max. Static MPPT Efficiency [%]	99.90						
Max. Conversion Efficiency [%]	97.60	97.62	97.62	97.62	97.62	97.62	97.62
European Efficiency [%]	97.16	97.20	97.20	97.20	97.20	97.20	97.20
Max. Battery Charge Efficiency (PV to BAT) (@ Full Load) [%]	97.33						
Max. Battery Discharge Efficiency (BAT to AC) (@ Full Load) [%]	96.40						

TECHNICAL SPECIFICATIONS

MODEL	PQ1-3.7-P	PQ1-5.0-P	PQ1-6.0-P	PQ1-7.0-P	PQ1-8.0-P	PQ1-10.0-P	PQ1-12.0-P
PROTECTION							
PV Reverse Polarity Protection				YES			
Anti-Islanding Protection				YES			
Output Short Protection				YES			
Leakage Current Protection				YES			
Insulation Resistor Detection				YES			
Overvoltage Category				YES			
Overcurrent Protection/Overtemperature Protection				YES			
Earth Fault				YES			
DC/AC Surge Protection				Type II (PV)/Type II (AC)			
AFCI Protection				Optional			
Battery Warming Function				Optional			
DC Switch				YES			
GENERAL DATA							
Dimensions (W*H*D) [mm]				660*420*360 (Inverter)			
Net Weight [kg]				43.0 (Inverter)			
Gross Weight [kg]				55.0 (Inverter)			
Installation				Floor-mounted			
Operating Temperature Range [°C]				-25 ~ +60 (Derating at 45)			
Storage Temperature [°C]				-10 ~ +55 (-25 ~ +55 after warm up)			
Storage/Operation Relative Humidity [%]				0 ~ 95 (No condensation)			
Altitude [m]				<4000 @ Derating Exceeding 3000			
Protection Class				I			
Overvoltage Category				III (AC), II (DC)			
Pollution Degree				PD3 (PD2 inside)			
Ingress Protection				IP66 (For Outdoor Use)			
Standby Consumption [W]				<15 (Only PV and Grid)			
Cooling	Natural	Natural	Natural	FAN cooling	FAN cooling	FAN cooling	FAN cooling
Noise Emission (Average) [dB]	<35 [4]	<35 [4]	<35 [4]	<50 [4]	<50 [4]	<50 [4]	<50 [4]
Inverter Topology				Non-Isolated			
Communication Interface		Ethernet, EMS(RS485), Meter, WiLAN(WiFi+LAN+Bluetooth), 4G(Optional),					
		DRM, Ripple Control, USB, BMS(CAN), SG Ready					
Display				LED, LCD, App, Website			
Export Limit Control				YES			
Button				Capacitive Touch Sensor			
STANDARD							
Safety		EN/IEC 62109-1, EN/IEC 62109-2, EN/IEC62477-1, EN/IEC 62040(AU)					
EMC		EN IEC 61000-6-1:2019, EN IEC 61000-6-3:2021, EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019, IEC 62920:2017					
RED		EN 50665:2017, ENIEC 62311:2020, EN 301 489-1 V2.2.3 (2019-11), EN 301 489-17 V3.2.4 (2020-09), EN 300 328 V2.2.2(2019-07), EN 55032:2015+A11:2020+A1:2020, EN 55035:2017+A11:2020					
Grid Regulation				AS/NZS 4777.2:2020			
Battery Regulation				IEC62619:2022			

[1] Voltages exceed 600V may damage the inverter.

[2] According to Australian standards, the maximum apparent power is 9999VA.

[3] Configuration can be set on the platform according to requirements.

[4] Excludes wear parts such as LCD and fans.

TECHNICAL SPECIFICATIONS

MODEL	CQ7-80 -L2(w)	CQ7-80 -L3(w)	CQ7-80 -L4(w)	CQ7-80 -L5(w)	CQ7-80 -L6(w)	CQ7-80 -L7(w)
ELECTRICAL CHARACTERISTICS						
Battery Type	LFP (LiFePO ₄)					
Battery Module	2*CQ7-S-80(w)	3*CQ7-S-80(w)	4*CQ7-S-80(w)	5*CQ7-S-80(w)	6*CQ7-S-80(w)	7*CQ7-S-80(w)
Nominal Capacity [kWh]	14.04	21.06	28.08	35.10	42.12	49.14
Nominal Voltage [V]	115.2	172.8	230.4	288.0	345.6	403.2
Operating Voltage [V]	104.4~459.9					
Recommend Discharge Current [A]	50					
Max. Charge/Discharge Current [A] ¹⁾	80					
Peak Discharge Current [A]	110 @60sec					
Battery Pack Round-Trip Efficiency [%]	>95					
Depth of Discharge [%]	90					
Communication	CAN					
Display	LED*1					
Scalability	Max. 7 Modules in Series					
OPERATING CONDITIONS						
Installation Location	Outdoor/ Indoor					
Operating Temperature [°C]	Charge: 0 ~ 55, Discharge: -10 ~ 55					
Operating Temperature [°C] (warm up function on, optional)	Charge: -25 ~ 55, Discharge: -25 ~ 55					
Storage Temperature [°C]	-10 ~ 50					
Cooling Method	Natural Convection					
Humidity [%]	5 ~ 95 (No Condensation)					
Altitude [m]	Max. 3,000					
PROTECTION						
Fire Protection Function	YES					
MECHANICAL CHARACTERISTICS						
Dimensions (W*D*H) [mm]	660*360*310	660*360*465	660*360*620	660*360*775	660*360*930	660*360*1085
Weight [kg]	97.6	146.4	195.2	244	292.8	341.6
CERTIFICATES						
Safety	IEC 62619					
EMC	IEC 61000-6-1/2/3/4					
Transportation	UN38.3					
Ingress Protection	IP65					

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



Stackable AIO

THREE-PHASE **HYBRID/AC**



FLEXIBLE APPLICATION

- Built-in 63A bypass for full house backup.
- 3 MPPTs, 20A per string.
- PV min. voltage of 120V and min. battery voltage of 80V.



EASY INSTALLATION

- Integrated configuration, plug and play set-up.
- Designed for single-person installation.



SAFE AND DURABLE

- Integrating active and passive safety.
- Intelligent AFCI function.
- IP66 and type II DC/AC surge protection.



REMOTE MONITORING

- Monitor your system remotely via smartphone App or Web portal.
- Ready for AI and VPP Apps.



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

5kW ... **15kW**



Stackable AIO is the latest generation of an integrated residential energy storage system, modular designed to meet various installation scenarios.



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

TECHNICAL SPECIFICATIONS

MODEL	PQ3-5.0 -M-P	PQ3-6.0 -M-P	PQ3-8.0 -M-P	PQ3-10.0-L -M-P	PQ3-10.0 -M-P	PQ3-12.0 -M-P	PQ3-15.0 -M-P
PV INPUT							
Max. Array Power[W]	11000	14000	18000	20000	20000	24000	30000
Max. Input Power [W]	11000	13200	17600	20000	20000	24000	30000
Max. Input Voltage [V]				1000 [1]			
Nominal 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 Input Voltage [V]				90 [2]			
MPPT Voltage Range [V]				120 ~ 950			
Start-Up Input Voltage [V]				140			
MPPT Voltage Range (Full Load) [V]	120 ~ 850	120 ~ 850	140 ~ 850	175 ~ 850	175 ~ 850	210 ~ 850	263 ~ 850
No. of MPP Trackers				3			
Strings per MPP Tracker				1+1+1			
Max. Inverter Backfeed Current to the Array				0			
BATTERY CONNECTION							
Battery Type				Lithium-Ion battery (LFP)			
Battery Voltage [V]				80 ~ 800			
Min. Operating Battery Voltage [V]				85			
Min. Battery Voltage @ Full AC Load [V]	108	125	160	210	210	250	310
Max. Battery Charge Power [W]	6000	7200	9600	12000	12000	14400	15000
Max. Battery Discharge Power [W]	5000	6000	8000	10000	10000	12000	15000
Max. Charge/Discharge Current [A]				50			
Communication Interface				CAN			
AC OUTPUT							
Nominal Output Power [W]	5000	6000	8000	9999	10000	12000	15000
Max. Apparent Output Power [VA]	5500	6600	8800	9999	11000	13200	16500
Rated Grid Voltage (AC Voltage Range) [V]				400/230; 380/220, 3L/N/PE			
Rated Grid Frequency [Hz]				50/60, ±5			
Rated Output Current (Per Phase) [A]	7.6	9.1	12.1	15.2	15.2	18.2	22.7
Max. Output Current (Per Phase) [A]	8.3	10.0	13.3	15.2	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. Input Power [VA]				43470			
Rated Grid Voltage [V]				400/230; 380/220, 3L/N/PE			
Rated Grid Frequency [Hz]				50/60, ±5			
Max. Input Current (Per Phase) [A]				63			
EPS OUTPUT(ON GRID MODE)							
Max. Output Power For Backup Load (Per Phase) [W]				43470			
Max. Output Current For Backup Load [A]				3*63			
EPS OUTPUT(OFF GRID MODE)							
Max. Apparent Output Power [VA]	5000	6000	8000	10000	10000	12000	15000
Peak Apparent Output Power (60s) [VA]	6000	7200	9600	12000	12000	14400	15000
Rated Output Voltage [V]				400/230; 3L/N/PE			
Rated Grid Frequency [Hz]				50/60			
Max. Continuous Current (Per Phase) [A]	7.2	8.7	11.6	14.5	14.5	17.4	21.7
Max. Unbalanced Load Power (Per Phase) [kW]	1.6	2.0	2.6	3.3	3.3	4.0	5.0
Step-Down Start				YES			
EPS Overload Automatic Recovery Time				Try 3 times(15s) everytime will alarm a fault, after 3 failures, stop the recovery logic, clients need to clear the fault manually.			
Power Factor				1 (Adjustable from 0.8 leading to 0.8 lagging)			
Parallel Operation				Yes @ Max. 4 pcs			
Switch Time (Single Device) [ms]				<20			
THDV [%]				<3 @rated power			
EFFICIENCY							
MPPT Efficiency [%]				99.90			
Max. Efficiency [%]	97.80	97.80	97.90	97.90	97.90	97.90	97.90
European Efficiency [%]	97.00	97.00	97.10	97.30	97.30	97.50	97.50
Max. Battery Charge Efficiency (PV to BAT) (@ Full Load) [%]	97.00	97.10	97.20	97.40	97.40	97.50	97.60
Max. Battery Discharge Efficiency (BAT to AC) (@ Full Load) [%]	97.00	97.10	97.20	97.20	97.20	97.20	97.20

TECHNICAL SPECIFICATIONS

MODEL	PQ3-5.0 -M-P	PQ3-6.0 -M-P	PQ3-8.0 -M-P	PQ3-10.0-L -M-P	PQ3-10.0 -M-P	PQ3-12.0 -M-P	PQ3-15.0 -M-P
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			
Overvoltage Category				III (AC Side), II (DC Side)			
Reverse Connect Protection				YES			
Overcurrent Protection/Overtemperature 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]				660*420*360 (Inverter)			
Dimensions of Packing (W*H*D) [mm]				760*600*550 (Inverter)			
Net Weight [kg]				43.0 (Inverter)			
Gross Weight [kg]				55.0 (Inverter)			
Installation				Floor-mounted			
Operating Temperature Range [°C]				-25 ~ +60 (Derating at 45)			
Storage Temperature [°C]				-40 ~ +70			
Storage/Operation Relative Humidity [%]				0 ~ 100 (No condensation)			
Altitude [m]				<4000 @ Derating Exceeding 3000			
Protection Class				I			
Ingress Protection				IP66 (For Outdoor Use)			
Standby Consumption [W]				<15 (Only PV and Battery)			
Idle Mode				YES			
Cooling	Natural	Natural	Natural	Natural	Natural	FAN Cooling	FAN Cooling
Noise Level [dB]	<40	<40	<40	<40	<40	<55	<55
Inverter Topology				Non-Isolated			
Monitoring Module (Integrated)				WIFI, LAN, 4G			
Communication Interface				Meter, WIFI/4G (Optional), Bluetooth, DRM, Ethernet, USB, BMS (CAN), RS485, Ripple Control, SG Ready, Dry Contact*2			
Display				LED, LCD, App, Website			
Button				Capacitive Touch Sensor			
Buzzer				1, Inside (EPS & Earth Fault)			
STANDARD							
Safety				EN/IEC62109-1, EN/IEC62109-2			
EMC				IEC 61000-6-1, IEC 61000-6-2, IEC 61000-6-3, IEC61000-4-2/3/4/5/6/8			
Certification				AS4777.2-2020, VDE-AR-N 4105, VDE0126-1-1, G98, EN50549-1, CEI 0-21, IEC62116, IEC61727, IEC61683			

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

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

TECHNICAL SPECIFICATIONS

MODEL	CQ7-80 -L2(W)	CQ7-80 -L3(W)	CQ7-80 -L4(W)	CQ7-80 -L5(W)	CQ7-80 -L6(W)	CQ7-80 -L7(W)	CQ7-80 -L8(W)	CQ7-80 -L9(W)	CQ7-80 -L10(W)	CQ7-80 -L11(W)	CQ7-80 -L12(W)
ELECTRICAL CHARACTERISTICS											
Battery Type	LFP (LiFePO ₄)										
Battery Module [CQ7-S-80(w)]	2	3	4	5	6	7	8	9	10	11	12
Nominal Capacity [kWh]	14.04	21.06	28.08	35.10	42.12	49.14	56.16	63.18	70.20	77.22	84.24
Nominal Voltage [V]	115.2	172.8	230.4	288.0	345.6	403.2	460.8	518.4	576.0	633.6	691.2
Operating Voltage [V]	104.4~788.4										
Recommend Discharge Current [A]	50										
Max. Charge/Discharge Current [A] ¹⁾	80										
Peak Discharge Current [A]	110 @60sec										
Battery Pack Round-Trip Efficiency [%]	>95										
Depth of Discharge [%]	90										
Communication	CAN										
Display	LED*1										
Scalability	Max. 12 Modules in Series										
OPERATING CONDITIONS											
Installation Location	Outdoor/ Indoor										
Operating Temperature [°C]	Charge: 0 ~ 55, Discharge: -10 ~ 55										
Operating Temperature [°C] (warm up function on, optional)	Charge: -25 ~ 55, Discharge: -25 ~ 55										
Storage Temperature [°C]	-10 ~ 50										
Cooling Method	Natural Convection										
Humidity [%]	5 ~ 95 (No Condensation)										
Altitude [m]	Max. 3,000										
PROTECTION											
Fire Protection Function	YES										
MECHANICAL CHARACTERISTICS											
Dimensions (W*D*H) [mm]	660*360	660*360	660*360	660*360	660*360	660*360	660*725	660*725	660*725	660*725	660*725
	*310	*465	*620	*775	*930	*1085	*1085	*1085	*1085	*1085	*1085
Weight [kg]	97.6	146.4	195.2	244	292.8	341.6	390.4	439.2	488.0	536.8	585.6
CERTIFICATES											
Safety	IEC 62619										
EMC	IEC 61000-6-1/2/3/4										
Transportation	UN38.3										
Ingress Protection	IP65										

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



P3-S

THREE-PHASE **HYBRID INVERTER**



5kW ...➡➡➡ 15kW



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 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.



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



TECHNICAL SPECIFICATIONS

MODEL	P3-5.0-SH	P3-6.0-SH	P3-8.0-SH	P3-10.0-SH	P3-12.0-SH	P3-15.0-SH
PV INPUT						
Max. Array Power [Wp]	11000	14000	18000	20000	24000	30000
Max. DC Input Power [W]	11000	13200	17600	18000	22500	22500
Max. DC Voltage [V]				1000 ^[1]		
Nominal DC Operating Voltage [V]				620		
Max. MPPT Input Current [A]	20/20	20/20	20/20/20	20/20/20	20/20/20	20/20/20
Max. MPPT Short Circuit Current [A]	25/25	25/25	25/25/25	25/25/25	25/25/25	25/25/25
Max. MPPT Input Power [W]	10000/10000	10000/10000	10000/10000/10000	10000/10000/10000	10000/10000/10000	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	2	2	3	3	3	3
Strings per MPP Tracker	1+1	1+1	1+1+1	1+1+1	1+1+1	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	250	310
Max. Charge/ Discharge Current [A]				50.0		
Communication Interface				CAN		
AC OUTPUT						
Nominal AC Power [W]	5000	6000	8000	10000	12000	15000
Max. Apparent AC Power [VA]	5500	6600	8800	11000 ^[3]	13200	16500
Rated Grid Voltage (AC Voltage Range) [V]				400/230; 380/220, 3L/N/PE		
Rated Grid Frequency [Hz]				50/60, ±5		
Rated AC Current [A] (Per Phase) ^[4]	7.6	9.1	12.1	15.2	18.2	22.7
Max. AC Current [A] (Per Phase) ^[4]	8.3	10.0	13.3	16.7	20.0	25.0
Power Factor			I(Adjustable from 0.8 leading to 0.8 lagging)			
THDI [%]			<3 @rated power			
AC INPUT						
Max. AC Power [VA]	6000	7200	9600	12000	14400	16000
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)	9.1	10.9	14.5	18.2	21.8	24.2
EPS OUTPUT						
Max. Apparent AC Power [VA]	5000	6000	8000	10000	12000	15000
Peak Apparent AC Power [VA] (60s)	6000	7200	9600	12000	14400	15000
Rated Output Voltage [V]				400/230; 380/220, 3L/N/PE		
Rated Grid Frequency [Hz]				50/60		
EPS Max. Current [A] (Per Phase)	7.2	8.7	11.6	14.5	17.4	21.7
Power Factor			I(Adjustable from 0.8 leading to 0.8 lagging)			
Switch Time [ms]			<10			
THDV [%]			<3 @Linear load			
EFFICIENCY						
MPPT Efficiency [%]			99.90			
Max. Efficiency [%]	97.30	97.70	97.70	97.90	97.90	97.90
European 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			
Overvoltage Category			III(AC side), II(DC side)			
Reverse Connect Protection			YES			
Overcurrent Protection / Overtemperature 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	FAN cooling	FAN cooling
Noise Grade [dB]	<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), SG Ready					
Button	Capacitive touch sensor *4					
Buzzer	I, 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.

[4] Per-phase output current can be increased via remote settings. After enabling the expansion function, the inverter can deliver up to 22.7A output current per phase.



P3 PRO

THREE-PHASE **HYBRID INVERTER**



15kW ... 30kW



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 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.



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



TECHNICAL SPECIFICATIONS

MODEL	P3-Pro-15.0	P3-Pro-20.0	P3-Pro-25.0	P3-Pro-30.0
PV INPUT(ONLY FOR HYBRID)				
Max. Array Power [Wp]	30000	40000	50000	60000
Max. Recommended DC Power [W] ^[1]	7500/7500/7500	10000/10000/10000	12500/12500/12500	15000/15000/15000
Max. DC Voltage [V] ^[2]		1000		
Nominal DC Operating Voltage [V]		750		
Max. Input Current [A]		16+16/16+16/16+16		
Max. Short Circuit Current [A]		20+20/20+20/20+20		
MPPT Voltage Range [V]		150 ~ 850		
MPPT Voltage Range [V] (full load)	170 ~ 850	230 ~ 850	280 ~ 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	330 ~ 790
Max. Charge/ Discharge Current [A]		50+50		
Number of Battery Input		2		
Communication Interface		CAN		
AC OUTPUT				
Nominal AC Power [VA]	15000	20000	25000	30000
Max. Apparent AC Power [VA]	16500	22000	27500	33000
Rated Grid Voltage (AC Voltage Range) [VAC]		400 / 230 ; 380 / 220 , 3L / N / PE		
Rated Grid Frequency [Hz]		50 / 60 , ±5		
Rated AC Current [A] (Per Phase)	22.7	30.3	37.9	45.5
Max. AC Current [A] (Per Phase)	25.0	33.3	41.7	50.0
Power Factor		I(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
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
Power Factor		I(Adjustable from 0.8 Leading to 0.8 Lagging)		
EPS OUTPUT				
Max. Apparent AC Power [VA]	15000	20000	25000	30000
Peak Apparent AC Power [VA] (60s)	18000	24000	30000	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	45.5
Power Factor		I(Adjustable from 0.8 Leading to 0.8 Lagging)		
Parallel Operation		Yes @Max10PCS		
Switch Time [ms]		<10		
THDV [%]		<3 @Rated Power		
EFFICIENCY				
MPPT Efficiency [%]	99.90	99.90	99.90	99.90
Max. Efficiency [%]	97.20	97.20	97.10	97.10
Max. Battery to AC Efficiency [%]	97.20	97.20	97.10	97.10
Max. PV to Battery Efficiency [%]	98.10	98.10	98.10	98.10
European Efficiency [%]	96.30	96.30	96.60	96.60
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		
Overvoltage Category		III (AC Side) , II (DC Side)		
Reverse Connect Protection		YES		
Overcurrent Protection / Overtemperature Protection		YES		
AC/DC Surge Protection		Type II/Type II		
AFCI Protection		Optional		
DC Switch		Optional		
String Monitoring Function		Optional		
GENERAL DATA				
Dimensions (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		
Storage/Operation Relative Humidity [%]		0 ~ 95 (No condensation)		
Altitude [m]		<4000		
Protective Class		I		
Ingress Protection		IP65 (for Outdoor Use)		
Standby Consumption [W]		200 for Hot Standby , 20 for Cold Standby		
Standby Mode		YES		
Cooling		Smart FAN Cooling		
Noise Grade [dB]	<45	<45	<55	<55
Inverter Topology		Non-isolated		
Communication Interface		Meter, WIFI, 4G(Optional), DRM, USB, BMS(CAN), RS485, Ethernet, SG ready		
Button		Capacitive Touch Sensor *4		
Buzzer		I, 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.



P3 Plus

THREE-PHASE **HYBRID INVERTER**



LONG BACK UP CAPABILITY

More than 6 hours backup power available.



EPS FUNCTION

Less than 10ms switch time.



HIGH PERFORMANCE

Supports 100% unbalanced three-phase output.



DISPLAY

Color LCD screen.

50kW ...➡➡➡ 125kW



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

Fox ESS P3 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.



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



TECHNICAL SPECIFICATIONS

MODEL	P3-50-Plus	P3-60-Plus	P3-75-Plus	P3-80-Plus	P3-100-Plus	P3-125-Plus
PV INPUT						
Max. Array Power [kW]	100	120	150	160	200	250
Max. Input Power [kW]	100	120	150	160	200	250
Withstand Voltage [V]				1000		
Input Voltage Range [V]				180 ~ 950		
Max. MPPT Input Current [A]				40		
Max. MPPT Short Circuit Current [A]				50		
MPPT Voltage Range [V]				180 ~ 850		
Start-up Voltage [V]				180		
No. of MPP Trackers	4	4	8	8	8	8
Strings per MPP Tracker				2		
BATTERY SPECIFICATION						
Battery Type				LFP (LiFePO ₄)		
Voltage Range [V]				180 ~ 950		
Max. Charging/Discharging Current [A]				240 (80+80+80)		
Battery Port				3		
Communication				CAN*3		
AC OUTPUT (GRID)						
Nominal AC Power [kW]	50	60	75	80	100	125
Max. AC Output Power [kVA]	55	66	75*/82.5	88	110	130*/137.5
Rated AC Output Current (Per Phase) [A]	76	91.2	113.9	121.6	152	190
Max. AC Output Current (Per Phase) [A]	83.6	100.3	114*/125.4	133.7	167.2	198.5
Nominal AC Voltage [V]				380/400, 3W+N+PE or 3W+PE		
AC Voltage Range [Un]				0.8 ~ 1.2		
Nominal AC Frequency [Hz]				50/60		
Frequency Range [Hz]				50/60, ±5		
Power Factor				0.8 Leading ~ 0.8 Lagging		
THDi [%]				<3 @Rated Power		
AC INPUT (GRID/GENERATOR)						
Max. AC Input Power [kVA]				207		
Max. Bypass Current [A]				300		
Nominal AC Voltage [V]				380/400, 3W+N+PE or 3W+PE		
Frequency Range [Hz]				50/60, ±5		
EPS OUTPUT (LOAD)						
Max. AC Output Power [kVA]	55	66	75*/82.5	88	110	130*/137.5
Peak AC Output Power [kVA] (10s)				155		
LRA Current [A]				300		
Nominal AC Voltage [V]				380/400, 3W+N+PE or 3W+PE		
Nominal AC Frequency [Hz]				50/60		
Switching Time [ms]				<10		
THDv [%]				<3 @Rated Power		
EFFICIENCY						
European Efficiency [%]				98.1		
Max. Efficiency [%]				98.5		
PROTECTION						
DC Input Switch				Yes		
Battery Reverse Polarity				Yes		
PV Reverse Polarity				Yes		
AC Overcurrent 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		
Terminal Overtemperature Protection				Yes		
String Current Detection				Yes		
GENERAL SEPECIFICATION						
Dimensions (W*H*D) [mm]				730*1060*305		
Weight [kg]	115	115	120	120	120	120
Operating Temperature [°C]				-30 ~ 60		
Cooling Method				Smart Air Cooling		
Operating Altitude [m]				4000		
Humidity [%]				0 ~ 100		
Noise [dB]				<70		
Standby Consumption [W]				<60		
DC-Link EV Charger Ready [kW]				20 ~ 50		
Ingress Protection (IP) Rating				IP65		
Topology				Non-Isolation		
Display				LED, LCD, Wi-Fi+APP		
Communication Ports				USB / RS485 / Bluetooth / Wi-Fi+LAN / 4G(Optional) / CAN		

* Only for Brazil



ALL-IN-ONE

G-MAX

COMMERCIAL AND INDUSTRIAL ENERGY STORAGE SYSTEM



...>>> 100kW



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.



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



TECHNICAL SPECIFICATIONS

MODEL	GM215kWh-100kW-2hF
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 Sensors	128
Battery Pack Protection Level	IP67
AC DATA	
Rated Output Power [kW]	100
Peak Output Power [kW]	110
Max. AC Input/Output Current [A]	167
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
GENERAL DATA	
Round Trip Efficiency [%]	>89
DOD [%]	0 ~ 100
Cycle Life	≥8000@70%EOL
Communication Interfaces	Ethernet
Ingress Protection	IP55
Corrosion Protection	Standard C4, optional C5
Fire Protection	Aerosol
Cooling Type	Liquid cooling
Altitude [m]	≤3000
Operating Temperature [°C]	-25 ~ 55
Operating Humidity [%]	0 ~ 95 (No condensation)
Full Power Noise [dB]	<70 @1m
Dimensions (W*D*H) [mm]	1040*1500*2200
Weight [kg]	<2500
Grid Code	CEI 0-21, CEI 0-16, EN 50549-1, EN 50549-2, EN 50549-10, TOR type A, C11/10, G99
Safety/EMC	IEC 62619, IEC 60730-1 appended H, IEC 62477-1, IEC 61000-6-2, IEC 61000-6-4, UN 38.3, UL 9540A

G-MAX PLUS

COMMERCIAL AND INDUSTRIAL ENERGY STORAGE SYSTEM



50kW ... 125kW



APPLICATION

Supports direct connection to PV, grid, backup load, and generator, supplying stable power in both on-grid and off-grid modes with a seamless switching time of just 10 ms.



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 Plus 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.



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

www.fox-ess.com



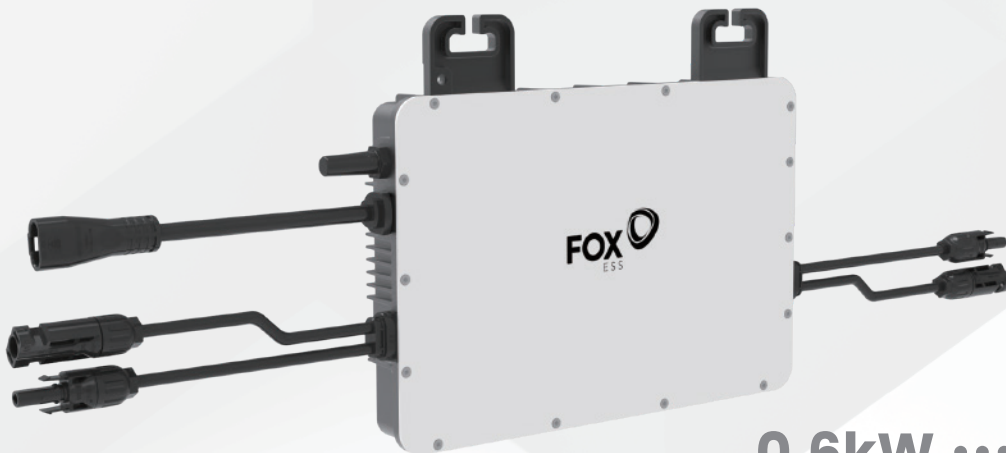
TECHNICAL SPECIFICATIONS

MODEL			GM241kWh- 50kW-H	GM241kWh- 60kW-H	GM241kWh- 80kW-H	GM241kWh- 100kW-H	GM241kWh- 125kW-H
BATTERY SPECIFICATION							
Battery Type [V / Ah]			LFP 3.2 / 314				
Battery Pack Capacity [kWh]			60.29				
Battery System Capacity [kWh]			241				
Operating Voltage Range [V]			672 ~ 876				
Number of Temperature Sensors			128				
Max. Charging Current [A]			190				
Max. Discharging Current [A]			190				
Battery Pack Protection Level			IP67				
PV SPECIFICATION							
Max. PV Array Power [kW]			100	120	160	200	250
Max. PV Input Power [kW]			100	120	160	200	250
Withstand Voltage [V]			1000				
PV DC Input Voltage Range [V]			180 ~ 950				
Start-up Voltage [V]			180				
Nominal DC Operating Voltage [V]			750				
MPPT Voltage Range [V]			180 ~ 850				
MPPT Voltage Range [V] (full load)			370 ~ 850	440 ~ 850	300 ~ 850	370 ~ 850	460 ~ 850
Max. Current per MPPT [A]			40				
Max. Short Circuit Current per MPPT [A]			50				
No. of MPPTs / Strings per MPPT			4 / 2	4 / 2	8 / 2	8 / 2	8 / 2
AC OUTPUT (GRID)							
Nominal AC Output Power [kW]			50	60	80	100	125
Max. AC Output Power [kVA]			55	66	88	110	137.5
Nominal AC Output Current [A]	380V		76.0	91.2	121.6	152.0	190.0
	400V		72.2	86.6	115.5	144.4	180.4
Max. AC Output Current [A]	380V		83.6	100.3	133.7	167.2	198.5
	400V		79.4	95.3	127.0	158.8	198.5
Nominal AC Voltage [V]			220 / 380, 230 / 400, 3W+N+PE or 3W+PE				
AC Voltage Range [Un]			0.8 ~ 1.2				
Nominal AC Frequency [Hz]			50 / 60				
Frequency Range [Hz]			50 / 60, ±5				
Power Factor			0.8 Leading ~ 0.8 Lagging				
Max. THDi [%]			< 3				
AC INPUT (GRID / GENERATOR)							
Max. AC Input Power [kVA]			207				
Max. Bypass Current [A]			300				
Max. Power for Battery Charged [kW]			55	66	88	100	100
Nominal AC Voltage [V]			220 / 380, 230 / 400, 3W+N+PE or 3W+PE				
Frequency Range [Hz]			50 / 60, ±5				
EPS OUTPUT (LOAD)							
Max. AC Output Power [kVA]			55	66	88	110	137.5
Peak AC Output Power (10s) [kVA]			155				
LRA Current [A]			300				
Nominal AC Voltage [V]			220 / 380, 230 / 400, 3W+N+PE or 3W+PE				
Nominal AC Frequency [Hz]			50 / 60				
Switching Time [ms]			< 10				
Max. THDv [%]			< 3 @ Rated Power				
EFFICIENCY							
Round Trip Efficiency [%]			88.0				
Max. Efficiency [%]			98.0				
PROTECTION							
DC Input Switch			YES				
PV Reverse Polarity			YES				
AC Overcurrent 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 SEPECIFICATION							
Dimensions (W * H * D) [mm]			1040 * 2230 * 1500				
Weight [kg]			< 2600				
Operating Temperature [°C]			-25 ~ 55				
Type of Cooling			Liquid Cooling				
Operating Altitude [m]			≤ 3000				
Humidity [%]			0 ~ 100				
Noise [dB]			<75 @ 1 m				
DOD [%]			0 ~ 100				
Cycle Life			≥ 8000 @ 70% EOL				
Communication Interfaces			Ethernet				
Ingress Protection			IP55				
Corrosion Protection			Standard C4, Optional C5				
Fire Protection			Smoke Detector, Heat Detector, Alarm Sounder, Cabinet-Level / PACK-Level Aerosol, Explosion Vent				
Diesel Generator Compatibility			YES				



M SERIES

MICROINVERTER SERIES



0.6kW ...➡➡➡ 1.2kW



HIGH PERFORMANCE

Low start-up voltage, wide voltage range, more efficient.



EASY INSTALLATION

Flexible configuration, plug and play set-up.



IP67 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 has launched a more reliable and flexible M series microinverter. By implementing independent MPPT control for each PV module panel and monitoring its own status, the M series greatly improves power generation efficiency and safety.



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

www.fox-ess.com



TECHNICAL SPECIFICATIONS

MODEL	MI-600-E	MI-800-E	MI-1000-E	MI-1200-E
INPUT (PV)				
Applicable Module Power [W]	355Wp-670Wp+			
Peak Power Tracking Voltage [V]	31 ~ 45			
Max. Input Voltage [V]	60			
Start-up Voltage [V]	24			
Max. Input Current [A]	20			
Max. Input Short-circuit Current [A]	24			
No. of MPP Trackers	2			
Strings per MPP Tracker	1			
DC Overvoltage Category	II			
OUTPUT (AC)				
Nominal Output Power [W]	600	800	1000	1200
Nominal Output Apparent Power [VA]	600	800	1000	1200
Peak Output Apparent Power [VA]	600	800	1000	1200
Nominal Output Current [A]	2.72	3.64	4.54	5.46
Nominal Output Voltage/Range [V] ^{*1}	230/180 ~ 264			
Nominal Output Frequency [Hz] ^{*1}	50/45 ~ 55 or 60/55 ~ 65			
Power Factor	>0.99(Adjustable from 0.95 leading to 0.95 lagging)			
Max. THDi [%]	<3			
Max. Units Per 10 AWG Branch ^{*2}	11	8	7	5
Max. Units Per 12 AWG Branch ^{*2}	9	6	5	4
Ac Overvoltage Category	III			
EFFICIENCY				
EU Weighted Efficiency [%]	95.50			
CEC Weighted Efficiency [%]	95.50			
Max. Efficiency [%]	96.00			
Nominal MPPT Efficiency [%]	99.90			
GENERAL DATA				
Dimensions (W*H*D) [mm]	270*182*34.5			
Weight [kg]	3.4			
Cooling Method	Natural convection-No fans			
Ingress Protection (according to IEC60529)	IP67			
Max. Operating Altitude [m]	2000			
Operating Ambient Temperature Range [°C]	-25 ~ +65			
Allowable Relative Humidity Range [%]	1 ~ 100			
Nominal Nighttime Consumption [mW]	<50			
Communication	WIFI			
Isolation Type	Reinforce Isolation			
Monitoring ^{*3}	Fox ESS Cloud			
PV Terminal Interlock Force [N] ^{*4}	50			
STANDARD				
Safety	IEC62109-1/2			
EMC	IEC 61000-6-1 / IEC 61000-6-2 / IEC 61000-6-3 / IEC 61000-6-4 / IEC61000-3-2/IEC61000-3-3			
Certification	ABNT NBR 16150, EN 50549-1: 2019, VDE-AR-N 4105: 2018, VFR2019			

*1 Nominal voltage/frequency range can vary depending on local requirements.

*2 Refer to local requirements for exact number of microinverters per branch.

*3 Fox ESS Monitoring System.

*4 PV Connector can be customized. (Default: Vaconn MC4 compatible)



Q SERIES

MICROINVERTER SERIES



1.6kW ...➡➡➡ 2.4kW



HIGH PERFORMANCE

Low start-up voltage, wide voltage range, more efficient.



EASY INSTALLATION

Flexible configuration, plug and play set-up.



IP67 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 has launched a more reliable and flexible Q series microinverter. By implementing independent MPPT control for each PV module panel and monitoring its own status, the Q series greatly improves power generation efficiency and safety.



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

www.fox-ess.com



TECHNICAL SPECIFICATIONS

MODEL	Q1-1600-E	Q1-2000-E	Q1-2400-E
INPUT (DC)			
Recommended PV module power range [W]	365Wp-700Wp		
Max. DC voltage [V]	60		
Operating voltage range [V]	23.5 ~ 60		
MPPT voltage range [V]	30 ~ 60		
MPPT voltage range(full load) [V]	35 ~ 50		
Power generation starting voltage [V]	32		
No. of MPP trackers	4		
No. of PV module connections	4		
Max. input current [A]	20*4		
Max. short circuit current [A]	26*4		
OUTPUT (AC)			
Nominal AC power [W]	1600	2000	2400
Max. apparent AC power [VA]	1600	2000	2400
Rated grid voltage [V]	L+N+PE, 220/230		
Rated grid Frequency [Hz]	50/60		
Nominal AC current [A]	7.3	9.1	11
Max. AC current [A]	7.3	9.1	11
Power factor	>0.99 (Default)		
THDi [%]	<3 @rated output		
No. of inverters of every 10 AWG branch	4	3	2
EFFICIENCY			
MPPT efficiency [%]	99.80		
Max. efficiency [%]	95.50		
GENERAL DATA			
Dimensions (W*H*D) [mm]	358*276.5*36.5		
Weight [kg]	6.0		
Cooling Method	Natural (Fanless)		
Ingress Protection	IP67		
Max. Operating Altitude [m]	2000		
Operating temperature range [°C]	-25 ~ +60		
Storage temperature range [°C]	-40 ~ +70		
Humidity [%]	0 ~ 100 (No condensation)		
Protective class	I		
Overvoltage category	III(AC side), II(DC side)		
DC connector type	MC4 or MC4 compatible		
Power consumption at night [W]	<0.3		
Topology	Transformer isolation		
Communication	Wireless 2.4GHz WiFi, Bluetooth		
Monitoring platform	System monitoring platform		
STANDARD			
Safety	IEC62109-1/2		
EMC	IEC 62920:2017 / IEC 61000-6-3		
Grid compliance	PORTARIA N° 140 2022 / EN 50549-10:2022 / EN 50549-1:2019		



CQ7

HIGH VOLTAGE STORAGE BATTERY



- 7.02kWh capacity
- Scalable to 98.28kWh
- 90% Depth of Discharge
- Large temperature tolerance
- CAN communication



HIGH
VOLTAGE



EASY
INSTALLATION



HIGH
EFFICIENCY



EXPANDABLE
SYSTEM



90%
DOD

The CQ7 is a high-performance, scalable battery storage system. The modular design allows for maximum flexibility, making it suitable for a broad range of storage applications.

Additional batteries can be installed in series, allowing for a maximum storage capacity of 98.28kWh. Installation is easy, with a plug and play solution that can save valuable time for installers.



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



TECHNICAL SPECIFICATIONS

MODEL	CQ7												
	-L2	-L3	-L4	-L5	-L6	-L7	-L8	-L9	-L10	-L11	-L12	-L13	-L14
ELECTRICAL CHARACTERISTICS													
Battery Type	LFP (LiFePO ₄)												
Battery Module (CQ7-M)	1												
Battery Module (CQ7-S)	1	2	3	4	5	6	7	8	9	10	11	12	13
Nominal Capacity [kWh]	14.04	21.06	28.08	35.10	42.12	49.14	56.16	63.18	70.20	77.22	84.24	91.26	98.28
Nominal Voltage [V]	115.2	172.8	230.4	288.0	345.6	403.2	460.8	518.4	576.0	633.6	691.2	748.8	806.4
Operating Voltage [V]	104.4 ~ 919.8												
Recommend Charge/Discharge Current [A]	50												
Max. Charge/Discharge Current [A]*1	80												
Peak Discharge Current [A]	110 @60sec												
Battery Pack Round-Trip Efficiency [%]*2	>95												
Depth of Discharge [%]	90												
Communication	CAN												
Display	CQ7-S: LED*1, CQ7-M: LED*6												
Scalability	Max. 14 Modules in Series												
OPERATING CONDITIONS													
Installation Location	Outdoor/ Indoor (Stand)												
Operating Temperature [°C]	Charge: 0 ~ 55, Discharge: -10 ~ 55												
Operating Temperature [°C] (warm up function on, optional)	Charge: -25 ~ 55, Discharge: -25 ~ 55												
Storage Temperature [°C]	-10 ~ 50												
Cooling Method	Natural Convection												
Humidity [%]	5 ~ 95 (No Condensation)												
Altitude [m]	Max. 3,000												
PROTECTION													
Fire Protection Function	YES												
MECHANICAL CHARACTERISTICS													
Dimensions (W*D*H) [mm]	660*360												
	*420	*575	*730	*885	*1040	*1195	*1350	*1505	*1660	*1815	*1970	*2125	*2280
Weight [kg] (±5%)	102.8	151.6	200.4	249.2	298.0	346.8	395.6	444.4	493.2	542.0	590.8	639.6	688.4
CERTIFICATES													
Safety	IEC 62619												
EMC	IEC 61000-6-1/2/3/4												
Transportation	UN38.3												
Ingress Protection	IP65												

*1, The current is affected by temperature, cell voltage and SOC.
*2 @25°C, 0.3C charging/discharging.



CQ16

HIGH VOLTAGE STORAGE BATTERY



- Scalable to 241.05kWh
- 90% Depth of Discharge
- Floor Mounting
- Easy installation
- IP20 Protection Level
- High Voltage and High Efficiency
- Intelligent air cooling control



SAFETY
RELIABLE



EASY
INSTALLATION



HIGH
EFFICIENCY



EXPANDABLE
SYSTEM



90%
DOD

The CQ16 is a high-performance, scalable battery storage system, allowing for maximum flexibility and making it suitable for a broad range of energy storage applications.



- Scalable from 64.28kWh to 241.05 kWh
- One CQ BOX is required for each battery system



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

TECHNICAL SPECIFICATIONS

MODEL	CQ BOX
Operating Voltage Range [Vdc]	101 ~ 1000
Max. Charge/Discharge Current [A]	240/240
Total Voltage Measurement Accuracy [%FSR]	±0.5
Current Measurement Range [A]	-240 ~ +240
Communication Interfaces	CAN
Charge/Discharge Efficiency [%]	>92
Dimensions (W*H*D) [mm]	390*235*810
Weight [kg]	29±1
Operating Temperature [°C]	Charge: 0 ~ 55, Discharge: -10 ~ 55
Storage Temperature [°C]	-10 ~ 55
Humidity [%]	5 ~ 95
Rated Energy Range [kWh]	64.28 ~ 241.05

MODEL	CQ16
Nominal Voltage [Vdc]	51.2
Operating Voltage [Vdc]	46.4 ~ 58.4
Nominal Capacity [Ah]	314
Nominal Capacity [kWh]	16.07
Max. Charge/Discharge Current [A]	240
Recommend Discharge Current [A]	157
Peak Discharge Current [A]	470 @60S
Depth of Discharge [%]	90
Storage Temperature [°C]	-10 ~ 50
Operating Temperature [°C]	Charge: 0 ~ 55, Discharge: -10 ~ 55
Humidity [%]	5 ~ 95 (No Condensation)
Display	Battery: LED*1, BOX: LED*6
Scalability	Max. 15 Modules in Series
Installation Location	Indoor
Altitude [m]	3000
Cooling Method	Intelligent air cooling
Ingress Protection	IP20
Fire Protection Function	Yes
Warming Function	No
Dimension (W*H*D) [mm]	390*235*810
Weight Approximate [kg]	128
Safety	IEC 62619
EMC	IEC 61000-6-1/2/3/4
Transportation	UN38.3

* Min. 4 batteries per system



EP6

HIGH VOLTAGE STORAGE BATTERY



- Scalable to 23.04kWh
- 90% Depth of Discharge
- Floor or Wall Mounting
- Compact & Easy Installation
- IP65 Protection Level
- High Voltage and High Efficiency



SAFETY
RELIABLE



EASY
INSTALLATION



HIGH
EFFICIENCY



EXPANDABLE
SYSTEM



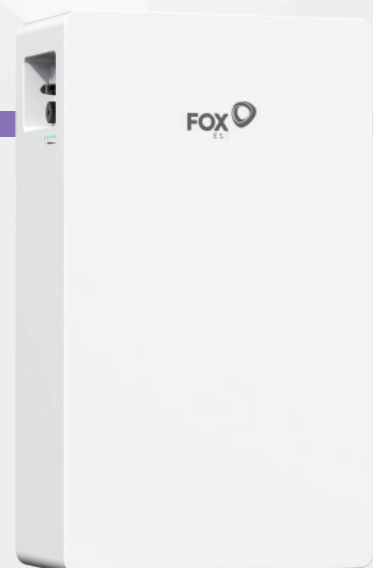
90%
DOD

The EP6 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 23.04kWh.



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



TECHNICAL SPECIFICATIONS

SYSTEM NAME	EP6
MODEL	EP6 Plus
ELECTRICAL CHARACTERISTICS	
Battery Type	LFP (LiFePO ₄)
Nominal Energy [kWh]	5.76
Nominal Voltage [V]	192
Operating Voltage [V]	174 ~ 219
Max.Charge/Discharge Current [A] ^{*1}	30
Recommend Charge Current [A]	15
Peak Discharge Current [A]	65 @60s
Peak Charge Current [A]	36 @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: 0 ~ 55, Discharge: -10 ~ 55
Operating Temperature [°C] (warm up function on, optional)	Charge: -25 ~ 55, Discharge: -25 ~ 55
Storage Temperature [°C]	-10 ~ 40
Cooling Method	Natural Convection
Humidity [%]	5 ~ 95 (No Condensation)
Altitude [m]	Max. 3,000
PROTECTION	
Fire Protection Function	YES
MECHANICAL CHARACTERISTICS	
Dimensions (W*H*D) [mm]	380*640*185
Weight [kg]	51
CERTIFICATES	
Safety	IEC62619
EMC	EN IEC 61000-6-1/2/3/4
Transportation	UN38.3
Ingress Protection	IP65

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

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



EP12

HIGH VOLTAGE STORAGE BATTERY



- Scalable to 46.08kWh
- 90% Depth of Discharge
- Floor or Wall Mounting
- Compact & Easy Installation
- IP65 Protection Level
- High Voltage and High Efficiency



SAFETY
RELIABLE



EASY
INSTALLATION



HIGH
EFFICIENCY



EXPANDABLE
SYSTEM



90%
DOD

The EP12 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 46.08kWh.



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



TECHNICAL SPECIFICATIONS

SYSTEM NAME	EP12
MODEL	EP12 Plus
ELECTRICAL CHARACTERISTICS	
Battery Type	LFP (LiFePO ₄)
Nominal Energy [kWh]	11.52
Nominal Voltage [V]	384
Operating Voltage [V]	348 ~ 438
Max.Charge/Discharge Current [A] ^{*1}	30
Recommend Charge Current [A]	15
Peak Discharge Current [A]	65 @60s
Peak Charge Current [A]	36 @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: 0 ~ 55, Discharge: -10 ~ 55
Operating Temperature [°C] (warm up function on, optional)	Charge: -25 ~ 55, Discharge: -25 ~ 55
Storage Temperature [°C]	-10 ~ 40
Cooling Method	Natural Convection
Humidity [%]	5 ~ 95 (No Condensation)
Altitude [m]	Max. 3,000
PROTECTION	
Fire Protection Function	YES
MECHANICAL CHARACTERISTICS	
Dimensions (W*H*D) [mm]	710*640*185
Weight [kg]	98
CERTIFICATES	
Safety	IEC62619
EMC	EN IEC 61000-6-1/2/3/4
Transportation	UN38.3
Ingress Protection	IP65

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

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



SOCKET VERSION



PLUG VERSION

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

A SERIES

EV CHARGER



ROBUST DURABILITY

IP65 and IK08 protection for reliable performance.



SMART CONNECTIVITY

Connect via Bluetooth, Wi-Fi, 4G, or Ethernet.



FLEXIBLE INTEGRATION

OCPP 1.6JSON or 2.0.1 compliant with an open MODBUS interface.



ADVANCED TECHNOLOGY

V2G Hardware-ready (ISO 15118) with dynamic load balancing.



SCHEDULED TIME CHARGING

Set the charging time as you wish.



RENEWABLE ENERGY COMPATIBILITY

Direct surplus solar power for EV charging.

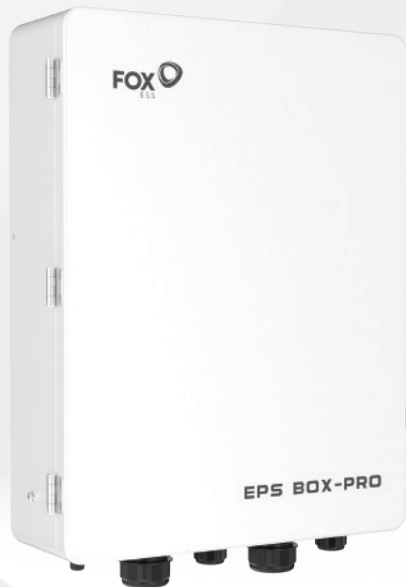
TECHNICAL SPECIFICATIONS

MODEL	A7300PI-E-B	A011KPI-E-B	A022KPI-E-B	A7300SI-E-B	A011KSI-E-B	A022KSI-E-B
AC INPUT						
Wiring Scheme	L/N/PE	3L/N/PE	3L/N/PE	L/N/PE	3L/N/PE	3L/N/PE
Rated Input Voltage [Vac]	230±20%	400±20%	400±20%	230±20%	400±20%	400±20%
Rated Input AC Current [A]	32	16	32	32	16	32
Rated Input Frequency [Hz]	50/60					
Standby Power Consumption [W]	≤10					
AC OUTPUT						
Max. AC Power [kW]	7.3	11	22	7.3	11	22
Rated Output AC Current [A]	32	16	32	32	16	32
Power Accuracy [%]	≤2					
PROTECTION						
Electrical Protection	Over/Under Voltage Protection, Overcurrent Protection, Leakage Current, Ground Protection, Surge Protection, Overtemperature Protection, Tamper Protection, PEN					
Environmental Protection	Salt-mist-resistant, UV-resistant Treatment					
GENERAL DATA						
Connector Type	IEC 62196 Type 2 Cable, Type 2 Socket, Type 2 Socket With Shutter					
Bluetooth	Yes					
Wifi (2.4GHz)	Yes					
Ethernet (RJ45)	Yes					
OCPP 1.6 JSON or OCPP 2.0.1	Yes					
4G LTE ^[i]	Optional, SIM Card Size: Micro-SIM (3FF)					
Communication with the vehicle	Optional, ISO 15118 ready					
RFID Reader	Mifare ISO/IEC 14443 A					
Start Mode	Plug&Charge/RFID Card/App					
Installation	Wall-mount / Post-mount					
Operating Temperature Range [°C]	-30 ~ +50					
Storage Temperature [°C]	-40 ~ +70					
Operating Humidity [%]	5 ~ 95 (No condensation)					
Operating Altitude [m]	<2000					
Dimensions (W*H*D) [mm]	190*320*130			190*320*144		
Net Weight [kg]	≤6.3			≤3.2		
Charging Cable Length [m]	6			/		
IP Protection Rating	Body-IP65, Socket-IP55					
IK Protection Rating	IK08					
Residual Current Detection*	AC 30mA+ DC 6 mA					
Cooling	Self Cooling					
EMC	Class B					
Certification	CE/CB/UKCA/RCM					
Certification Standard	EN/IEC 61851-1: 2019, EN/IEC 61851-21-2: 2021					

[1] Requires external SIM card (not included)
*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

EPS BOX PRO

THREE-PHASE



- PC, Robust metal enclosure IP65
- Applied to residential, commercial solar installations
- Compatible with P3-S inverter
- Automatically switch to On-Grid/Off-Grid state



Max. input
current
(per phase) 63A



Safety



IP65
Rated



Easy
Installation



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



TECHNICAL SPECIFICATIONS

MODEL	EPS BOX PRO
UTILITY SUPPLY	
Rated Voltage [VAC]	220 / 380, 230 / 400, 3L / N / PE
Rated Frequency [Hz]	50 / 60
Max. Input Current (Per Phase) [A]	63
INVERTER GRID	
Rated Voltage [VAC]	220 / 380, 230 / 400, 3L / N / PE
Rated Frequency [Hz]	50 / 60
Max. Input Current (Per Phase) [A]	25
INVERTER EPS	
Rated Voltage [VAC]	220 / 380, 230 / 400, 3L / N / PE
Rated Frequency [Hz]	50 / 60
Max. Input Current (Per Phase) [A]	25
LOAD	
Rated Voltage [VAC]	220 / 380, 230 / 400, 3L / N / PE
Rated Frequency [Hz]	50 / 60
Max. Output Current (Per Phase) [A]	63
COMMUNICATION INTERFACE	
RS-485	Meter
GENERAL DATA	
Cooling Concept	Natural
Installation	Wall-mounted
Operating Temperature Range [°C]	-25 ~ +60 (Derating at 45)
Dimensions (W*H*D) [mm]	420 * 550 * 139
Dimensions of packing (W*H*D) [mm]	515 * 660 * 235
Net Weight [kg]	16
Gross Weight [kg]	19.3
Ingress Protection	IP65

EPS BOX PRO-HC

THREE-PHASE



- PC, Robust metal enclosure IP65
- Applied to residential, commercial solar installations
- Compatible with P3-S/P3 Pro inverter
- Automatically switch to On-Grid/Off-Grid state



Max. input
current
(per phase) 63A



Safety



IP65
Rated



Easy
Installation



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



TECHNICAL SPECIFICATIONS

MODEL	EPS BOX PRO-HC
UTILITY SUPPLY	
Rated Voltage [VAC]	220 / 380, 230 / 400, 3L / N / PE
Rated Frequency [Hz]	50 / 60
Max. Input Current (Per Phase) [A]	63
INVERTER GRID	
Rated Voltage [VAC]	220 / 380, 230 / 400, 3L / N / PE
Rated Frequency [Hz]	50 / 60
Max. Input Current (Per Phase) [A]	63
INVERTER EPS	
Rated Voltage [VAC]	220 / 380, 230 / 400, 3L / N / PE
Rated Frequency [Hz]	50 / 60
Max. Input Current (Per Phase) [A]	63
LOAD	
Rated Voltage [VAC]	220 / 380, 230 / 400, 3L / N / PE
Rated Frequency [Hz]	50 / 60
Max. Output Current (Per Phase) [A]	63
COMMUNICATION INTERFACE	
RS-485	Meter
GENERAL DATA	
Cooling Concept	Natural
Installation	Wall-mounted
Operating Temperature Range [°C]	-25 ~ +60 (Derating at 45)
Dimensions (W*H*D) [mm]	550 * 420 * 138.5
Dimensions of packing (W*H*D) [mm]	660 * 515 * 235
Net Weight [kg]	17
Gross Weight [kg]	18
Ingress Protection	IP65

EPS BOX-SP

SINGLE-PHASE



- PC, Robust metal enclosure IP65
- Applied to residential, commercial solar installations
- Compatible with HI-G2/KH/P100 inverter
- Automatically switch to On-Grid/Off-Grid state



Max. input
current
(per phase) 100A



Safety



IP65
Rated



Easy
Installation



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



TECHNICAL SPECIFICATIONS

MODEL	EPS BOX-SP
UTILITY SUPPLY	
Rated Voltage [VAC]	220 / 230 / 240, L / N / PE
Rated Frequency [Hz]	50 / 60
Max. Input Current (Per Phase) [A]	100
INVERTER GRID	
Rated Voltage [VAC]	220 / 230 / 240, L / N / PE
Rated Frequency [Hz]	50 / 60
Max. Input Current (Per Phase) [A]	63
INVERTER EPS & INVERTER 2	
Rated Voltage [VAC]	220 / 230 / 240, L / N / PE
Rated Frequency [Hz]	50 / 60
Max. Input Current (Per Phase) [A]	63
LOAD	
Rated Voltage [VAC]	220 / 230 / 240, L / N / PE
Rated Frequency [Hz]	50 / 60
Max. Output Current (Per Phase) [A]	100
COMMUNICATION INTERFACE	
RS-485	Meter
GENERAL DATA	
Cooling Concept	Natural
Installation	Wall-mounted
Operating Temperature Range [°C]	-25 ~ +60
Dimensions (W*H*D) [mm]	420 * 550 * 138.5
Dimensions of packing (W*H*D) [mm]	515 * 660 * 235
Net Weight [kg]	16
Gross Weight [kg]	19.3
Ingress Protection	IP65

Fox ESS PROJECT PICTURES



Switzerland



Netherlands



Pakistan



China



 FOXESS CO., LTD.

 No.939, Jinhai Third Road, New Airport Industry Area, Longwan District, Wenzhou, Zhejiang, China

 info@fox-ess.com , service@fox-ess.com

 www.fox-ess.com