

S SERIES (G3)

SINGLE MPPT INVERTERS

REFINED – POWERFUL – FLEXIBLE

Fox ESS offer a range of single MPPT single-phase inverters offering unparalleled efficiency and performance. Our range starts with the S700-G3 – small and compact and with an ultra-low start-up voltage that will ensure you harvest the most energy possible from your solar panels.



High Performance

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



Easy Installation

Flexible configuration, plug and play set-up.



IP65 Rated

Engineered to last with maximum flexibility. Suitable for outdoor installation.



Remote Monitoring

Monitor your system remotely via smartphone app or web portal.

ANYTIME, ANYWHERE REMOTE MONITORING PLATFORM

Monitor system performance in real-time via smartphone app or web portal using our advanced monitoring platform.



THE S SERIES (G3)



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

WWW.FOX-ESS.COM



TECHNICAL SPECIFICATIONS

INPUT	S700-G3	S1000-G3	S1500-G3	S2000-G3	S2500-G3	S3000-G3	S3300-G3
PV							
Max.Recommended DC Power [w]	1050	1500	2250	3000	3750	4500	5400
Max.DC Voltage [V]				500			
nominal DC Operating Voltage [V]				360			
Max. Input Current [A]				16			
Max. Short Circuit Current [A]				20			
MPPT Voltage Range [V]				50-480			
MPPT Voltage Range (Full Load) [V]	80-450	110-450	160-450	210-450	240-450	280-450	300-450
Start-up Voltage [V]				60			
No. of MPP Trackers				1			
Strings per MPP Tracker				1			
OUTPUT							
AC							
nominal AC Power [w]	700	1000	1500	2000	2500	3000	3300
Max. AC Apparent Power [VA]	800	1100	1650	2200	2750	3300	4000
Rated Grid Voltage (AC Voltage Range) [Vac]				220/230/240			
Rated Grid Frequency [Hz]				50/60			
nominal AC current [A]	3.0	4.3	6.5	8.7	10.9	13.0	14.3
Max. AC current [A]	3.5	4.8	7.2	9.6	12.0	14.3	17.4
Displacement Power Factor				1 (0.8 leading ~ 0.8 lagging)			
Total Harmonic Distortion (THDi, Nominal Output) [%]				<3			
EFFICIENCY							
MPPT Efficiency [%]	99.00	99.00	99.00	99.00	99.00	99.00	99.00
Euro-Efficiency [%]	96.50	96.50	96.50	96.80	96.80	96.80	96.80
Max. Efficiency [%]	97.20	97.20	97.30	97.40	97.40	97.40	97.40
PROTECTION							
DC Reverse-polarity Protection				YES			
Anti-islanding Protection				YES			
Insulation Monitoring				YES			
Residual-current Monitoring				YES			
AC Short Circuit Protection				YES			
AC Output Over Current Protection				YES			
AC Output Over Voltage Protection				III (AC) , II (PV)			
Surge Protection				DC/AC : Type II (Optional)			
Temperature Protection				YES			
AFCI Protection				Optional			
Integrated DC Switch				Optional			
GENERAL DATA							
Dimensions (WxHxD)[mm]				290*220*116			
Weight[kg]				5.4			
Cooling Method				Natural Convection			
Topology				Non-isolated			
Noise Emission (typical)[dB]				<30			
Max. Operating Altitude[m]				3000 m (>2000m Derating)			
Operating Temperature Range[°C]				-25 ~ 60			
Humidity [%]				0 ~ 100 (No Condensation)			
Protection Degree				IP65			
Internal Consumption at Night[W]				<1			
Monitoring Module: WIFI / GPRS				Optional			
Communication				RS485, Meter/CT, ISO alarm			
Display				LCD, Touch Key, App, Website			
STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)							
Safety				EN 62109-1/2, IEC 62109-2, BIS IS 16169, BIS IS 16221-2			
EMC				EN 61000-6-3,EN IEC 61000-3-2/3, EN IEC 61000-6-1/2/4			
Certification				IEC 61727, IEC 62116, IEC 61683, IEC 60068-2-1/2/14/30/64			

F SERIES (G2)

DUAL MPPT INVERTERS



Fox ESS offer a range of single and dual-MPPT single-phase inverters offering unparalleled efficiency and performance. Our dual-MPPT F Series (G2) range includes 3.0 – 6.0kW models. The F Series (G2) is IP65 rated and battery ready for easy upgrade when paired with a Fox ESS charge controller.



High Performance

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



Easy Installation

Flexible configuration, plug and play set-up.



IP65 Rated

Engineered to last with maximum flexibility. Suitable for outdoor installation.



Remote Monitoring

Monitor your system remotely via smartphone app or web portal.

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THE F SERIES (G2)



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

WWW.FOX-ESS.COM



TECHNICAL SPECIFICATIONS

Model	F3000-G2	F3600-G2	F4600-G2	F5000-G2	F5300-G2	F6000-G2
INPUT						
PV						
Max. Input Power[W]	4500	5400	6900	7500	7950	9000
Max./Min.Input Voltage[V]	600/80	600/80	600/80	600/80	600/80	600/80
Start-up Input Voltage[V]	120	120	120	120	120	120
Rated Input Voltage[V]	360	360	360	360	360	360
MPPT Operating Voltage Range[V]	80 ~ 550					
Max. Input Current[A]	14					
Max. Short-circuit Current [A]	18					
No. of Independent MPP Trackers	2					
No. of Strings per MPP Tracker	1					
OUTPUT						
AC						
Rated Output Apparent Power[VA]	3000	3600	4600	5000	5300	6000
Max. Output Apparent Power[VA]	3300	3960	5060	5500	5830	6000
Rated Grid Voltage[Vac]	220/ 230/ 240					
Rated Grid Frequency[Hz]	50/ 60					
Rated Output Current[A]	13.0	15.7	20.0	21.7	23.0	26.1
Max. Output Current[A]	14.3	17.2	22.0	23.9	25.3	26.1
Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)					
Total Harmonic Distortion (THDi) [%]	<3					
EFFICIENCY						
MPPT Efficiency [%]	99.00					
Euro-efficiency [%]	96.80					
Max. Efficiency [%]	97.40					
PROTECTION						
Insulation Monitoring	YES					
Residual Current Monitoring	YES					
PV String Current Monitoring	NO					
DC Reverse Polarity Protection	YES					
Anti-islanding Protection	YES					
AC Short-circuit Protection	YES					
AC Overcurrent Protection	YES					
AC Overvoltage Protection	YES					
Surge Protection	Optional (DC/AC: Type II)					
DC Switch	Optional					
AFCI	NO					
GENERAL DATA						
Dimensions (WxHxD) [mm]	402*453*148					
Weight [kg]	15.5					
Cooling Method	Natural Convection					
Topology	Transformerless					
Noise Emission (typical) [dB]	<30					
Max. Operating Altitude [m]	3000					
Operating Temperature Range [°C]	-25 ~ 60					
Humidity [%]	0 ~ 100 (No Condensation)					
Protection Degree	IP65					
Internal Consumption at Night [W]	<1					
Monitoring Module	LAN/ WIFI / GPRS / 4G (Optional)					
Communication	RS485, Meter / CT, DRM					
Display	LCD, Touch Key, App, Website					
Country Of Manufacture	China					
STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)						
Safety	EN/IEC 62109-1/2					
EMC	EN 61000-6-1/2/3/4					
Grid Regulation	AS/NZS-4777.2, CEI 0-21					



T SERIES (G3)

3-PHASE INVERTERS

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

REFINED – POWERFUL – FLEXIBLE



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

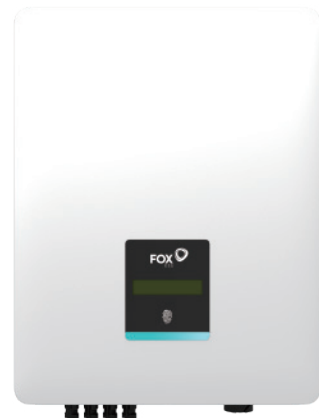
Monitor your system remotely via smartphone app or web portal.

ANYTIME, ANYWHERE REMOTE MONITORING PLATFORM

Monitor system performance in real-time via smartphone app or web portal using our advanced monitoring platform.



THE T SERIES (G3)



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

WWW.FOX-ESS.COM



TECHNICAL SPECIFICATIONS

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



R SERIES(G2)

3-PHASE GRID-TIED INVERTERS

The R Series(G2) inverter range is aimed at 3-phase commercial installations, offering unrivalled performance and versatility for increased yield potential and longer generation windows. The 3-phase R Series(G2) inverter options range from 75kW to 136kW.



PV STRING
CURRENT MONITORING



ARCFULT
CIRCUIT INTERRUPTER
FUNCTION



PID RECOVERY



IP66 RATED

REFINED – POWERFUL – FLEXIBLE

- PV String Current Monitoring
- AFCI Function
- PID Recovery
- LED, Wi-Fi + APP
- IP66 and C5 Protection
- 20A Input Current, Compatible with Bifacial Module



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

WWW.FOX-ESS.COM



TECHNICAL SPECIFICATIONS

MODEL	R75-G2	R80-G2	R100-G2	R110-G2	R125-G2	R136-G2
INPUT(DC)						
Max. Input Voltage [V]			1100			
Start-up Input Voltage [V]			250			
Rated Input Voltage [V]			600			
MPPT Operating Voltage Range [V] (Full Load)			550 ~ 850			
MPPT Operating Voltage Range [Vdc]			200 ~ 1000			
No. of Independent MPP Trackers	9/2	9/2	9/2	10/2	10/2	10/2
Max. Input Current [A]			40			
Max. Short-circuit Current [A]			50			
OUTPUT(AC)						
Rated Output Power [kW]	75	80	100	110	125	136
Max. Output Apparent Power [kVA]	75*/82.5	88	110	121	125	138
Max. Output Current [A]	113.7*/125	133.3	166.7	183.3	189.4	200
Rated Grid Voltage [Vac]			400, 3W+N+PE			
Grid Voltage Range [Vac]			320 ~ 460			
Grid Frequency Range [HZ]			45 ~ 55 / 55 ~ 65			
Adjustable Power Factor			0.8 Leading ~ 0.8 Lagging			
THDi [%]			<3			
EFFICIENCY						
Max. Efficiency [%]			98.6			
Euro. Efficiency [%]			98.2			
PROTECTION						
DC Switch			Yes			
DC Reverse Polarity Protection			Yes			
AC Overcurrent Protection			Yes			
AC Short-circuit Protection			Yes			
Surge Protection			DC Type II / AC Type II			
PID Recovery			Yes			
Insulation Monitoring			Yes			
Residual Current Monitoring			Yes			
AFCI			Optional			
PV String Current Monitoring			Optional			
GENERAL DATA						
Dimensions (W*H*D) [mm]			975*630*360			
Weight [kg]			90			
Operating Temperature [°C]			-30 ~ 60			
Cooling Method			Smart Air Cooling			
Operating Altitude [m]			4000 (>3000m Derating)			
Relative Humidity Range [%]			0 ~ 100 (Non-Condensing)			
Ingress Protection Rating			IP66			
Isolation Method			Transformerless			
Display			LED,Wi-Fi+APP			
Communication			RS485 / USB / Wi-Fi+LAN / 4G			
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