

F SERIES

DUAL MPPT INVERTERS



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



High Performance

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



Upgradeable*

Fully optimised for upgrade to the FOX range of battery storage system

*Requires additional FOX equipment



IP65 Rated

Engineered to last with maximum suitability 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 F SERIES



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

WWW.FOX-ESS.COM



TECHNICAL SPECIFICATIONS

Model	F3000	F3600	F4600	F5000	F5300	F6000
INPUT						
PV						
Max. Recommended DC Power [W]	4500	5400	6900	7500	7950	9000
Max. DC Voltage [V]	600	600	600	600	600	600
Nominal DC Operating Voltage [V]	360	360	360	360	360	360
Max. Input Current (input A/input B) [A]				14/14		
Max. Short Circuit Current (input A/input B) [A]				18/18		
MPPT Voltage Range [Vdc]	80-550	80-550	80-550	80-550	80-550	80-550
Start output Voltage [V]	120	120	120	120	120	120
No. of MPP Trackers	2	2	2	2	2	2
Strings Per MPP Tracker	1	1	1	1	1	1
OUTPUT						
AC						
Nominal AC Power [W]	3000	3600	4600	5000	5300	6000
Max. Apparent AC Power [VA]	3300	3960	5060*1	5500*2	5830	6000
Rated Grid Voltage [Vac]				220/230/240		
Rated Grid Frequency [Hz]				50/60		
Nominal AC Current [A]	13.0	15.7	20.0	21.7	23.0	26.1
Max. AC Current [A]	14.3	17.2	22.0	23.9	25.3	26.1
Displacement Power Factor				1 (Adjustable from 0.8 leading to 0.8 lagging)		
Total Harmonic Distortion (THDi, Nominal output)	<3%	<3%	<3%	<3%	<3%	<3%
EFFICIENCY						
MPPT Efficiency	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
Euro-efficiency	96.80%	96.80%	96.80%	96.80%	96.80%	96.80%
Max. Efficiency	97.40%	97.40%	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				YES		
Integrated DC Switch				YES		
Temperature Protection				YES		
Surge Protection				Type III(DC)/Type III(AC)		
STANDARD						
Safety				IEC 62109-1/2		
EMC				IEC 61000-6-1/IEC 61000-6-2/IEC 61000-6-3		
Certification				AS4777.2-2015/G98-1/G99-1/EN50549-1/IEC 61727 VDE-AR-N 4105/VDE0126-1-1/RD1699/ABNT NBR 16149/ABNT NBR 16150/C10/11		
GENERAL DATA						
Dimensions (WxHxD) [mm]				402*476.5*148		
Net Weight [kg]				15.5		
Cooling Concept				Natural		
Ingress Protection (according to IEC60529)				IP65		
Topology				Transformerless		
Over Voltage Category				III (AC side), II (PV side)		
Noise Emission (typical) [dB]				<30		
Operating Temperature Range [°C]				-20..... +60 (derating at +45)		
Storage Temperature Range [°C]				-40..... +70		
Humidity [W]				0-100% (no condensation)		
Self Consumption (night) [W]				<1		
Monitoring Module (optional)				External WIFI/Lan/GPRS (optional)		
Communication				Meter, CT, DRM, USB update, RS485		
Display				LCD screen, Touch Key, App, Web site		

*1 VDE-AR-N 4105: 4600VA
*2 C10/11: 5000VA