

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 4.6, 5.0 and 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 FoxESS range of battery storage systems. *Requires additional FoxESS equipment



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 F SERIES



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

WWW.FOX-ESS.COM



TECHNICAL SPECIFICATIONS

Model	F3000	F3600	F4600	F5000	F6000
INPUT					
PV					
Max. DC Input Power [W]	4500	5400	6900	7500	9000
Max. DC Voltage [V]	600	600	600	600	600
Nominal DC Operating Voltage [V]	360	360	360	360	360
Max. Input Current (input A/input B) [A]			12.5/12.5		
Max. Short Circuit Current (input A/input B) [A]			15/15		
MPPT Voltage Range [Vdc]	80-550	80-550	80-550	80-550	80-550
Start-up Voltage [V]	120	120	120	120	120
No. of MPP Trackers	2	2	2	2	2
Strings Per MPP Tracker	1	1	1	1	1
OUTPUT					
AC					
Nominal AC Power [W]	3000	3600	4600	5000	6000
Max. Apparent AC Power [VA]	3300	3960	5060	5500	6000
Rated Grid Voltage [Vac]			220/230/240		
Grid Voltage Range [Vac]			180~276		
Rated Grid Frequency [Hz]			50/60		
Grid Frequency Range [Hz]			45~55/55~65		
Nominal AC Current [A]	13.0	15.7	20.0	21.7	26.1
Max. AC Current [A]	14.3	17.2	22.0	23.9	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%
EFFICIENCY					
MPPT Efficiency	99.00%	99.00%	99.00%	99.00%	99.00%
Euro-efficiency	96.80%	96.80%	96.80%	96.80%	96.80%
Max. Efficiency	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		
Surge Protection			YES		
Temperature Protection			YES		
Integrated DC Switch			Optional		
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		
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			-20..... +60°C (derating at +45°C)		
Storage Temperature Range			-40..... +70°C		
Humidity			0-100% (no condensation)		
Self Consumption (night) [W]			<1W		
Monitoring Module (optional)			External WIFI/Lan/GPRS (optional)		
Communication			Meter, CT, DRM, USB update, ISO alarm (internal)		
Display			LCD screen, Touch Key, App, Web site		