



# 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.



 <p><b>High Performance</b></p> <p>Low start-up voltage, wide voltage range, 97.4% maximum efficiency.</p>	 <p><b>Upgradeable*</b></p> <p>Fully optimised for upgrade to the FoxESS range of battery storage systems. *Requires additional FoxESS equipment</p>	 <p><b>IP65 Rated</b></p> <p>Engineered to last with maximum flexibility. Suitable for outdoor installation.</p>	 <p><b>Remote Monitoring</b></p> <p>Monitor your system remotely via smartphone app or web portal.</p>
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### 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](http://WWW.FOX-ESS.COM)



# TECHNICAL SPECIFICATIONS

Model	E4600	E5000	E6000
<b>INPUT</b>			
<b>PV</b>			
Max.Recommended DC Power [W]	5980	6500	7800
Max.DC Voltage [V]	600	600	600
Nominal DC Operating Voltage [V]	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
Start-up Voltage [V]	120	120	120
No. of MPP Trackers	2	2	2
Strings Per MPP Tracker	1	1	1
<b>OUTPUT</b>			
<b>AC</b>			
Nominal AC Power [W]	4600	5000	6000
Max. Apparent AC Power [VA]	5060	5500	6000
Rated Grid Voltage [Vac]		220/230/240	
Rated Grid Frequency [Hz]		50/60, ±5	
Nominal AC Current [A]	20.0	21.7	26.1
Max. AC Current [A]	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%
<b>EFFICIENCY</b>			
MPPT Efficiency	99.00%	99.00%	99.00%
Euro-efficiency	96.80%	96.80%	96.80%
Max. Efficiency	97.40%	97.40%	97.40%
<b>PROTECTION</b>			
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	
<b>STANDARD</b>			
Safety		IEC62109-1-2	
EMC		IEC 61000-6-1/IEC 61000-6-2/IEC 61000-6-3	
Certification		AS4777/VDE-AR-N 4105/G98/G99/EN50549/CEI 0-21	
<b>GENERAL DATA</b>			
Dimensions (WxHxD) [mm]		360*370*128	
Net Weight [kg]		13.5	
Cooling Concept		Natural	
Degree of 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	