FOX ESS

DATASHEET

Single-Phase F Series

F3000 / F3600 / F4600 / F5000 / F5300* / F6000

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 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	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]	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	80-550
Start-up 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	5500	5830	6000
Rated Grid Voltage [Vac]	220/230/240; 180-260					
Rated Grid Frequency [Hz]	50/60, ±5					
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					
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, RS485					
Display	LCD screen, Touch Key, App,Web site					

*India market only.