

F SERIES

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 range includes 3.0 – 6.0kW models. The F Series 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.

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 Fox ESS range of single-phase inverters, visit:

WWW.FOX-ESS.COM



TECHNICAL SPECIFICATIONS

Model	F3000	F3600	F4600	F5000	F5300	F6000
INPUT						
PV						
Max. Input Power [W]	4500	5400	6900	7500	7950	9000
Max. Input Voltage [V]	600	600	600	600	600	600
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]	12.5					
Max. Short-circuit Current [A]	15					
No. of Independent MPP Trackers	2					
No. of Strings per MPP Tracker	1					
OUTPUT						
AC						
Rated Output Power [W]	3000	3600	4600	5000	5300	6000
Max. Output Apparent Power [VA]	3300	3960	5060	5500	5830	6000
Rated Grid Voltage [V]	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					
DC Reverse Polarity Protection	YES					
An ti-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					
GENERAL DATA						
Dimensions (WxHxD) [mm]	402*476.5*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					
STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)						
Safety	EN/IEC 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, ABNT NBR 16149, ABNT NBR 16150, C10/11, EN 50549-1, PN EN-50549-1, VDE-AR- N4105, VDE V 0126-1-1, UTE C 15-712-1,TAI-PEA, TAI-MEA, RD 1699, CEI 0-21, IEC 61727, IEC 62116, IEC 61683, IEC 60068-2-1/2/14/30/64, G98, G99					