

# 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](http://WWW.FOX-ESS.COM)



# TECHNICAL SPECIFICATIONS

Model	F3000	F3600	F4600	F5000	F5300	F6000
<b>INPUT</b>						
<b>PV</b>						
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					
<b>OUTPUT</b>						
<b>AC</b>						
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					
<b>EFFICIENCY</b>						
MPPT Efficiency [%]	99.00					
Euro-efficiency [%]	96.80					
Max. Efficiency [%]	97.40					
<b>PROTECTION</b>						
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					
<b>GENERAL DATA</b>						
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					
<b>STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)</b>						
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					