



F SERIES

SINGLE-PHASE **INVERTER**



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.



Advanced System Monitoring
with **FoxCloud V2.0**

REFINED – POWERFUL – FLEXIBLE

Fox ESS offers a range of single and dual-MPPT single-phase inverter offering unparalleled efficiency and performance. Our dual-MPPT F Series range includes 3 – 6kW models. The F Series is IP65 rated and battery ready for easy upgrade when paired with a Fox ESS charge controller.

3kW ...>> 6kW



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]	3900	4680	5980	6500	6890	7800
Max. Input Voltage [V]			600			
Start-up Input Voltage [V]			120			
Rated Input Voltage [V]			360			
MPPT Operating Voltage Range [V]			80 ~ 550			
Max. Input Current[A]			12.5			
Max. Short-circuit Current [A]			15			
No. of MPP Trackers			2			
Strings per MPP Tracker			1			
OUTPUT(AC)						
Rated Output Apparent Power [VA]	3000	3600	4600	5000	5300	6000
Max. Output Apparent Power [VA]	3300	3960	5060	5500	5830	6000
Rated Grid Voltage [Vac]			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)			
THDi [%]			<3			
EFFICIENCY						
MPPT Efficiency [%]			99.00			
European Efficiency [%]			96.80			
Max. Efficiency [%]			97.40			
PROTECTION						
Insulation Monitoring			YES			
Residual Current Monitoring			YES			
DC Reverse Polarity Protection			YES			
Anti-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 (W*H*D) [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)			
Ingress Protection			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				