

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 | | | | | |