



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 Independent MPP Trackers | | | 2 | | | |
| No. of 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) | | | | | |
| 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 | | | | | |
| 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 | | | | | |