

F SERIES

SINGLE-PHASE INVERTER

Fox ESS offers a dual MPPT single-phase inverter, delivering unparalleled efficiency and performance. Compact in design and featuring an ultra-low start-up voltage, this inverter ensures you harvest the maximum possible energy from your solar panels.



3kW ...➡➡ 6kW



Advanced System Monitoring
with **FoxCloud 2.0**



HIGH PERFORMANCE

Low start-up voltage, wide voltage range, 97.6% 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.
- AI assistant helps better understand and manage your system.

TECHNICAL SPECIFICATIONS

MODEL	F3000	F3600	F4600	F5000	F5300	F6000
PV INPUT						
Max. Input Power [W]* ¹	6000	7200	9200	10000	10600	12000
Max. Input Voltage [V]* ²				600		
Nominal DC Operating Voltage [V]				360		
Max. Input Current (Input A/Input B) [A]				20/20		
Max. Short Circuit Current (Input A/Input B) [A]				26/26		
MPPT Voltage Range [V]				60 ~ 550		
MPPT Voltage Range (Full Load) [V]	90 ~ 550	100 ~ 550	130 ~ 550	140 ~ 550	150 ~ 550	160 ~ 550
Start-up Voltage of LCD [V]				60		
Start-up Voltage of Operation [V]				80		
No. of MPP Trackers				2		
Strings per MPP Tracker				1+1		
Max. Inverter Backfeed Current to the Array [mA]				0		
AC OUTPUT						
Nominal Active AC Power [W]	3000	3600	4600	5000	5300	6000
Max. Apparent AC Power [VA]	3300	3960	5060	5500	5830	6600
Rated Grid Voltage [V]				220/230/240		
Rated Grid Frequency [Hz]				50/60, ±5		
Nominal AC Current [A]	13.6	16.4	20.9	22.7	24.1	27.3
Max. AC Current [A]	15.0	18.0	23.0	25.0	26.5	30.0
Inrush Current [A]				7.9 @50us		
Max. Output Fault Current [A]				167 @10us		
Max. Output Overcurrent Protection [A]				75		
Displacement Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)					
THDi [%]	<3 @Rated Output					
EFFICIENCY						
Max. MPPT Efficiency [%]	99.80	99.80	99.80	99.90	99.90	99.90
European Efficiency [%]	96.80	96.80	96.80	97.00	97.00	97.00
Max. Efficiency [%]	97.60	97.60	97.60	97.60	97.60	97.60
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		
Temperature Protection				YES		
Surge Protection				Type II (DC) and Type II (AC)		
DC Switch				Optional		
AFCI				Optional		
Night Mode				Optional		
GENERAL DATA						
Dimensions (W*H*D) [mm]				358*335*155		
Weight [kg]				≤9.5		
Cooling Method				Natural		
Protective Class				I		
Ingress Protection (According to IEC60529)				IP65		
Topology				Non-isolated		
Overvoltage Category				III (AC side), II (PV side)		
Noise Emission (typical) [dB] @1m				<30		
Max. Operating Altitude [m]				3000		
Operating Temperature Range [°C]				-25 ~ +60 (Derating at +45)		
Storage Temperature Range [°C]				-40 ~ +70		
Humidity [%]				0 ~ 100 (No Condensation)		
Standby Consumption [W]				<1 (Without night mode), <3 (With night mode)		
Pollution Degree				II		
Monitoring Module	Internal Wifi, and external WIFI module/4G module/LAN Module as optional					
Communication				Meter, CT, RS485, DRM (For AU only)		
Display				LCD, LED, App,Website		
STANDARD						
Certification	IEC62109, NBR-W220BR2022, AS4777, G100, CEI21, IEC61727					

*1 Max. operation power for each MPPT is 4000W.

*2 The inverter will report a error once the PV voltage is higher than 585V.