



F SERIES

SINGLE-PHASE **INVERTER**



...>>> **6kW**



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.



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

REFINED – POWERFUL – FLEXIBLE

Fox ESS offers a range of dual MPPT single-phase inverter offering unparalleled efficiency and performance. Our range starts with the F3000 – small and compact and with an ultra-low start-up voltage that will ensure you harvest the most energy possible from your solar panels.



For more about the Fox ESS range of single-phase inverters, visit:
www.fox-ess.com



TECHNICAL SPECIFICATIONS

MODEL	F6000
INPUT(PV)	
Max. Input Power [W]*1	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]	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
OUTPUT(AC)	
Nominal Active AC Power [W]	6000
Max. Apparent AC Power [VA]	6600
Rated Grid Voltage [V]	220/230/240
Rated Grid Frequency [Hz]	50/60, ±5
Nominal AC Current [A]	27.3
Max. AC Current [A]	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 [%]	99.90
European Efficiency [%]	97.00
Max. Efficiency [%]	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	YES
AFCI	YES
Night Mode	YES
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.