



F SERIES DUAL-MPPT INVERTERS

FoxESS offer a range of single and dual-MPPT single-phase inverters offering unparalleled efficiency and performance. Our dual-MPPT F Series range includes 4.6, 5.0 and 6.0kW models. The F Series is IP65 rated and battery ready for easy upgrade when paired with a FoxESS charge controller.



High Performance

Low start-up voltage, wide voltage range, 97.4% maximum efficiency.



Upgradeable*

Fully optimised for upgrade to the FoxESS range of battery storage systems. *Requires additional FoxESS equipment



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.



FoxESS - F SERIES REFINED | POWERFUL | FLEXIBLE





F SERIES		F4600	F5000	F6000
INPUT				
Max.Recommended DC power	W	5980	6500	7800
Max.DC voltage	V	600	600	600
Norminal DC operating voltage	V	360	360	360
Max. input current (input A/input B)	A	12.5/12.5	12.5/12.5	12.5/12.5
Max. short circuit current (input A/input B)	A	15/15	15/15	15/15
MPPT voltage range	Vdc	80-550	80-550	80-550
MPPT voltage range (full load)	Vdc	200-550	210-550	250-550
Start output voltage	V	120	120	120
No. of MPP trackers		2	2	2
Strings per MPP tracker		1	1	1
OUTPUT				
Norminal AC power	W	4600	5000	6000
Max. AC power	VA	5060	5500	6000
Rated grid voltage	Vac		220/230/240	
Rated grid frequency	Hz	50/60	50/60	50/60
Norminal AC current	A	20.0	21.7	26.1
Max. AC current	A	22.0	23.9	26.1
Displacement power factor		>0.99 (Adjustable from 0.8 leading to 0.8 lagging)		
Total harmonic distortion (THDi, Nominal output)		<3%	<3%	<3%
EFFICIENCY				
MPPT efficiency		99.00%	99.00%	99.00%
Euro-efficiency		96.80%	96.80%	96.80%
Max. efficiency		97.40%	97.40%	97.40%
PROTECTION				
DC reverse-polarity protection:		YES		
Anti-Islanding protection:		YES		
Insulation monitoring:		YES		
Residual current monitoring:		YES		
AC Short circuit protection:		YES		
AC Output over current protection:		YES		
AC Output over voltage protection:		YES		
Surge protection:		YES		
Temperature protection:		YES		
Integrated DC switch:		Optional		
STANDARD				
Safety		IEC62109-1-2		
EMC		IEC 61000-6-1/IEC 61000-6-2/IEC 61000-6-3/IEC 61000-6-4		
Cetification		AS4777.2/VDE-AR-N 4105/G98/G99/EN50549/CEI 0-21/BIS IS 16169/NRS 097-2-1		
GENERAL DATA				
Dimensions (WxHxD)	mm	476.5*402*148		
Weight	kg	15.5		
Cooling concept		Natural		
Degree of protection (according to IEC60529)		IP65		
Topology		Transformerless		
Over Voltage category		PV: OVC II, AC Mains: OVC III		
Noise emission (typical)	dB	<30		
Max. Operating Altitude	m	3000 (derating when >2000)		
Operating temperature range	°C	-20..... +60°C (derating at +45°C)		
Storage temperature range	°C	-40..... +70°C		
Humidity		0-100% (No condensation)		
Self consumption(night)	W	<1		
Monitoring Module (optional)		External WIFI/GPRS		
Communication		Meter, CT, DRM, USB update, RS485, ISO Alarm (internal)		
Display		LCD screen, App, Touch Key, Web site		