



M1

Micro Inverter series

REFINED – POWERFUL – FLEXIBLE



High Performance

Low startup voltage,
 Wide voltage range,
 More efficient.



Easy Installation

Flexible configuration, plug and
 play set-up.



IP67 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.



For more about the Fox ESS range of inverters, visit:

www.fox-ess.com



TECHNICAL SPECIFICATIONS

MODEL	M1-600	M1-800	M1-1000	M1-1200
INPUT (PV)				
Applicable module power [W]	355Wp-670Wp+			
Peak power tracking voltage [V]	31 ~ 45			
Max. Input Voltage [V]	60			
Start-up voltage [V]	24			
Max. Input Current [A]	20			
Max. Input Short-circuit Current [A]	24			
Number of MPPTs	2			
Number of Strings per MPPT	1			
DC over-voltage protection class	II			
OUTPUT (AC)				
Nominal output power [W]	600	800	1000	1200
Nominal output apparent power [VA]	600	800	1000	1200
Peak output apparent power [VA]	600	800	1000	1200
Nominal output current [A]	2.72	3.64	4.54	5.46
Nominal output voltage/range [V] ^{*1}	230/180 ~ 264			
Nominal output frequency [Hz] ^{*1}	50/45 ~ 55 or 60/55 ~ 65			
Power Factor	>0.99(Adjustable from 0.8 leading to 0.8 lagging)			
Max. Total Harmonic Distortion [%]	< 3			
Max. units per 10AWG branch ^{*2}	11	8	7	5
Max. units per 12AWG branch ^{*2}	9	6	5	4
AC over-voltage protection class	III			
EFFICIENCY				
EU Weighted Efficiency [%]	95.50			
CEC Weighted Efficiency [%]	95.50			
Max. Efficiency [%]	96.00			
Nominal MPPT Efficiency [%]	99.90			
GENERAL DATA				
Dimensions (WxHxD) [mm]	270*182*34.5			
Weight [kg]	4.0			
Cooling Method	Natural convection-No fans			
Ingress Protection(according to IEC60529)	IP67			
Max. Operating Altitude [m]	2000			
Operating Ambient Temperature Range [°C]	-25 ~ +45			
Allowable Relative Humidity Range [%]	1 ~ 100			
Nominal nighttime consumption [mW]	< 50			
Communication	WIFI			
Isolation type	Reinforce Isolation			
Monitoring ^{*3}	Fox ESS Cloud			
STANDARD				
Safety	IEC62109-1/2			
EMC	IEC 61000-6-1 /IEC 61000-6-2 /IEC 61000-6-3 /IEC 61000-6-4 /IEC61000-3-2/IEC61000-3-3			
Certification	ABNT NBR 16150, EN 50549-1: 2019, VDE-AR-N 4105: 2018, VFR2019			

*1 Nominal voltage/frequency range can vary depending on local requirements.

*2 Refer to local requirements for exact number of microinverters per branch.

*3 Fox ESS Monitoring System.