



M1

Microinverter 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-E	M1-800-E	M1-1000-E	M1-1200-E
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 0.95 leading to 0.95 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]	3.9			
Cooling Method	Natural convection-No fans			
Ingress Protection(according to IEC60529)	IP67			
Max. Operating Altitude [m]	2000			
Operating Ambient Temperature Range [°C]	-25 ~ +65			
Allowable Relative Humidity Range [%]	1 ~ 100			
Nominal nighttime consumption [mW]	< 50			
Communication	WIFI			
Isolation type	Reinforce Isolation			
Monitoring ^{*3}	Fox ESS Cloud			
PV terminal interlock force [N] ^{*4}	50			
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.

*4 PV Connector can be customized. (Default: Vaconn MC4 compatible)