



Q SERIES

MICROINVERTER SERIES



HIGH PERFORMANCE

Low start-up 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.



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

REFINED – POWERFUL – FLEXIBLE

Fox ESS has launched a more reliable and flexible Q series microinverter. By implementing independent MPPT control for each microinverter and monitoring its own status, the Q series greatly improves power generation efficiency and safety.

1.6kW ...>> 2.4kW



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

www.fox-ess.com



TECHNICAL SPECIFICATIONS

MODEL	Q1-1600-E	Q1-2000-E	Q1-2400-E
INPUT (DC)			
Recommended PV module power range [W]	365Wp-700Wp		
Max. DC voltage [V]	60		
Operating voltage range [V]	23.5 ~ 60		
MPPT voltage range [V]	30 ~ 60		
MPPT voltage range(full load) [V]	35 ~ 50		
Power generation starting voltage [V]	32		
No. of MPP trackers	4		
No. of PV module connections	4		
Max. input current [A]	20*4		
Max. short circuit current [A]	26*4		
OUTPUT (AC)			
Norminal AC power [W]	1600	2000	2400
Max. apparent AC power [VA]	1600	2000	2400
Rated grid voltage [V]	L+N+PE, 220/230		
Rated grid Frequency [Hz]	50/60		
Norminal AC current [A]	7.3	9.1	11
Max. AC current [A]	7.3	9.1	11
Power factor	>0.99 (Default)		
Total harmonic distortion(@rated output) [%]	<3		
No. of inverters of every 10AWG branch	4	3	2
EFFICIENCY			
MPPT efficiency [%]	99.80		
Max. efficiency [%]	95.50		
GENERAL DATA			
Dimensions (W*H*D) [mm]	358*276.5*36.5		
Weight [kg]	6.0		
Cooling Method	Natural (Fanless)		
Ingress Protection	IP67		
Max. Operating Altitude [m]	2000		
Operating temperature range [°C]	-25 ~ +60		
Storage temperature range [°C]	-40 ~ +70		
Humidity [%]	0 ~ 100 (No condensation)		
Protective class	I		
Overvoltage category	III (AC side), II (DC side)		
DC connector type	MC4 or MC4 compatible		
Power consumption at night [W]	< 0.3		
Topology	Transformer isolation		
Communication	Wireless 2.4GHz WiFi, Bluetooth		
Monitoring platform	System monitoring platform		
STANDARD			
Safety	IEC62109-1/2		
EMC	IEC 62920:2017 / IEC 61000-6-3		
Grid compliances	PORTARIA N° 140 2022 / EN 50549-10:2022 / EN 50549-1:2019		