



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 PV module panel and monitoring its own status, the Q series greatly improves power generation efficiency and safety.

1.6kW ...>>> 2.5kW



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	Q1-2500-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	2500
Max. apparent AC power [VA]	1600	2000	2400	2500
Rated grid voltage [V]	L+N+PE, 220/230			
Rated grid Frequency [Hz]	50/60			
Norminal AC current [A]	7.3	9.1	11	11.36
Max. AC current [A]	7.3	9.1	11	11.36
Power factor	>0.99 (Default)			
Total harmonic distortion(@rated output) [%]	<3			
No. of inverters of every 10AWG branch	4	3	2	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			