DATASHEET

Q SERIES

MICROINVERTER SERIES

HIGH PERFORMANCE

Low start-up voltage, wide voltage range, more efficient.

IP67 RATED

Engineered to last with maximum flexibility. Suitable for outdoor installation.

EASY INSTALLATION

Flexible configuration, plug and play set-up.

REMOTE MONITORING

Monitor your system remotely via smartphone app or web portal.

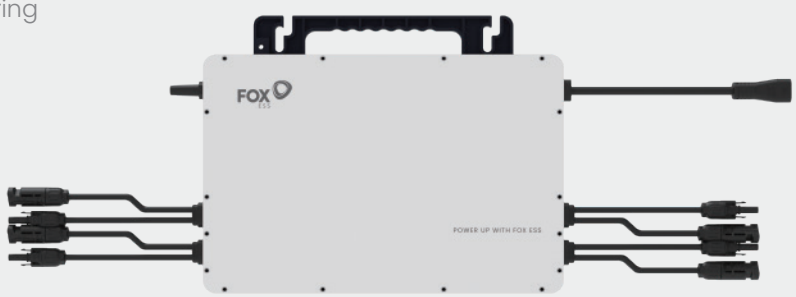
REFINED - POWERFUL - FLEXIBLE

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

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 ··· 2.4kW

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)			
Nominal 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	
Nominal AC current [A]	7.3	9.1	11
Max. AC current [A]	7.3	9.1	11
Power factor		>0.99 (Default)	
THDi [%]		<3 @rated output	
No. of inverters of every 10 AWG 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 compliance		PORTARIA Nº 140 2022 / EN 50549-10:2022 / EN 50549-1:2019	