DATASHEET



Q SERIES MICROINVERTER SERIES





### HIGH PERFORMANCE

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

FOXO



## EASY INSTALLATION

Flexible configuration, plug and play set-up.



# REMOTE MONITORING

**IP67 RATED** 

Monitor your system remotely via smartphone app or web portal.

Engineered to last with maximum

flexibility. Suitable for outdoor installation.

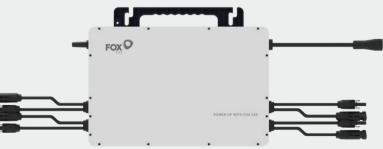
### REFINED - POWERFUL - FLEXIBLE

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.





Advanced System Monitoring with FoxCloud V2.0



#### 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)		20 1		
Norminal AC power [W]	1600	2000	2400	
Max. apparent AC power [VA]	1600	2000	2400	
Rated grid voltage [V]	1000	L+N+PE, 220/230	2.00	
• • • • •		50/60		
Rated grid Frequency [Hz] Norminal AC current [A]	7.3	9.1	11	
	7.3	9.1	11	
Max. AC current [A] Power factor	1.5	>0.99 (Default)	11	
Total harmonic distortion(@rated output) [%]		<3		
No. of inverters of every 10AWG branch	4	3	2	
EFFICIENCY	-	J. J	L	
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	Ι			
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		
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Grid compliances

PORTARIA Nº 140 2022 / EN 50549-10:2022 / EN 50549-1:2019