



PowerQube

AIO BATTERY STORAGE



IP66 RATED

High level of protection, suitable for outdoor installation.



TEMPERATURE CONTROL

Integrated heating function for cold weather protection.



FIRE SUPPRESSANT

Built-in automatic fire suppressant for maximum safety.




12 YEARS WARRANTY

Industry leading warranty of up to 12 years (selected countries only).


**HIGH
VOLTAGE**


**EPS
FUNCTION**


**EXPAND
CAPACITY**


**90%
DOD**



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

The Fox ESS PowerQube is a next-generation **all-in-one** residential energy storage solution with a fully-integrated inverter/charger and boasting a range of advanced features.

3.7kWh ... 30kWh
2-7 battery modules



For more information about the Fox ESS range, visit
www.fox-ess.com

AIO-AC1 (ac-coupled)
variants available.



PQ INVERTER

EQ BATTERY

TECHNICAL SPECIFICATIONS

MODULE			PQ-3.7-H PQ-3.7-A	PQ-5.0-H PQ-5.0-A	PQ-6.0-H PQ-6.0-A	PQ-7.0-H PQ-7.0-A	PQ-9.0-H PQ-9.0-A	PQ-11.0-H PQ-11.0-A
INPUT PV								
Max. Solar STC Power [W]			7400	10000	12000	14000	18000	22000
Max. Input Power [W]			5500	7500	9000	10500	13500	16500
Nominal DC Voltage [V]						360		
Max. DC Voltage [V]						600		
System Startup Voltage [V]						75		
MPPT Voltage Range [V]						80 ~ 500		
MPPT Voltage Range [V] (Full Load)			116 ~ 500	156 ~ 500	188 ~ 500	219 ~ 500	211 ~ 500	258 ~ 500
Max. PV Input Current per MPPT [A]				32/16			32/16/16	
Max. Input Short Circuit Current per MPPT [A]				40/20			40/20/20	
No. of MPPT				2			3	
Strings per MPPT				2/1			2/1/1	
OUTPUT AC								
Nominal AC Power [W]			3680	5000	6000	7000	9000	11000
Max. AC Apparent Power [VA]			3680	5000	6000	7000	9000	11000
Nominal AC Output Voltage [V]						220/230/240		
AC Voltage Range [V]						180 ~ 270		
Nominal AC Output Current [A]			16.0	22.7	27.3	31.8	40.9	50.0
Max. AC Output Current [A]			16.0	22.7	27.3	31.8	40.9	50.0
Nominal AC Output Frequency [Hz]						50/60		
Operating AC Frequency Range [Hz]						45 ~ 65		
Output Power Factor						>0.99 (0.8 leading ~ 0.8 lagging)		
THDi [%]						<3		
INPUT AC								
Max. AC Input Power [W]			4440	6000	7200	8400	10800	13200
Max. AC Input Current [A]			20.2	27.3	32.7	38.2	49.1	60.0
Rated Grid Voltage (AC Voltage Range) [V]						220/230/240 (180 ~ 270)		
Nominal AC Input Frequency [Hz]						50/60		
EPS OUTPUT (WITH BATTERY)								
Rated Output Power [W]			3680	5000	6000	7000	9000	11000
Max. Apparent Output Power [VA]			3680	5500	6600	7700	9900	12100
Peak Output Power For 60 Sec. [W]			4995	6750	8100	9450	12150	14850
Peak Output Power For 10 Min. [W]			4440	6000	7200	8400	10800	13200
Nominal AC Output Voltage						220/230/240		
Max. Continuous AC Output Current [A]			16.0	25.0	30.0	35.0	45.0	55.0
Nominal AC Output Frequency [Hz]						50/60		
Rated Output Power @ Different Batteries [W]	2 Batteries		3680	5000	5760	5760	5760	5760
	3 Batteries		3680	5000	6000	7000	8640	8640
	4 Batteries		3680	5000	6000	7000	9000	11000
	5-7 Batteries		3680	5000	6000	7000	9000	11000
Load Start Capacity [A] LRA						48 / 72 / 96 / 110		
EFFICIENCY								
Max. Efficiency [%]			97.4	97.8	97.8	97.8	97.8	97.8
Max. Efficiency (PV-BAT-AC) [%]			91.8	92.0	92.0	92.0	92.0	92.0
Round-Trip Efficiency [%]			90.7	90.9	90.9	90.9	90.9	90.9
Euro Efficiency (BAT) [%]			95.5	96.5	96.5	97.0	97.0	97.0
Euro Efficiency (PV) [%]			96.0	97.0	97.0	97.0	97.5	97.5
PROTECTION								
DC Reverse-Polarity Protection						YES		
DC Switch						YES		
DC Surge Protection						Type II		
Insulation Resistance Monitoring						YES		
AC Surge Protection						Type II		
AC Short-Circuit Protection						YES		
Ground Fault Monitoring						YES		
Grid Monitoring						YES		
Anti-islanding Protection						YES		
Residual-Current Monitoring Unit						YES		
AFCI Protection						YES		
GENERAL DATA								
Dimensions (W*H*D) [mm / inch]						570*512*380 / 22.4*20.2*15		
Weight [kg / lb]						49 / 108		
Enclosure Rating						IP66		
Operation Temperature Range [°C]						-25 ~ +60 (Derating Above 40)		
Relative Humidity [%]						0 ~ 100 (No Condensation)		
Typical Noise Emission [dB]						<35		
Max. Operation Altitude [ft / m]						9843 / 3000 (>6, 560 / 2000 Derating)		
Internal Consumption at Night [W]						<25		
Topology						Non-isolated		
Cooling Method						Natural convection		
Switchover Time [ms]						<20		
Safety and EMC						62109-1/2, 62477-1, IEC 61000-6-2/3, G99/G100		
HMI								
Display						LED, App, Website		
Communication Interface						CAN2.0, RS485, Meter, CT, ISO alarm, SUNSPEC(modbus)		
Monitoring Module: WIFI / GPRS						Optional		
BATTERY								
Battery Type						Li-ion		
Nominal Battery Voltage [V]						360		
DC Operating Voltage Range [V]						85 ~ 460		
Full Load DC Operating Voltage Range [V]			92 ~ 460	125 ~ 460	150 ~ 460	170 ~ 460	220 ~ 460	275 ~ 460
Max. Continuous Charge and Discharge Current [A]						50		
Max. Continuous Charge/Discharge Power [W]			5550/3680	7500/5500	9000/6600	10500/7700	13500/9900	17000/12100
Peak Discharge Current For 60 Sec. [A]						60		
CS Communication Interface						CAN 2.0		
Compatible Battery & Battery Capacity								
EQ 3300		EQ 4800		EQ 5000		EQ 2900 (only for UK)		EQ 4300 (only for UK)
6.4kWh-22.4kWh (2-6PCS)		9.32kWh-32.61kWh (2-9PCS)		9.84kWh-34.44kWh (2-6PCS)		5.76kWh-20.16kWh (2-7PCS)		8.64kWh-30.24kWh (2-7PCS)