



# Stackable AIO

SINGLE-PHASE **HYBRID/AC**



## FLEXIBILITY

Modular design to meet various backup scenarios.



## EASY INSTALLATION

Integrated configuration, plug and play set-up.



## IP66 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**



**PQ INVERTER**

**EQ BATTERY**

Stackable AIO is the latest generation of an integrated residential energy storage system, modular designed to meet various installation scenarios.

3.7kW ...>> 11kW



For more information about the Fox ESS range, visit  
[www.fox-ess.com](http://www.fox-ess.com)

AIO-AC1 (ac-coupled)  
variants available.

TECHNICAL SPECIFICATIONS

MODEL	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
<b>INPUT PV</b>						
Max. Solar STC Power [W]	7400	10000	12000	14000	18000	22000
Max. Input Power [W]	5550	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	32/16	32/16	32/16/16	32/16/16
Max. Input Short Circuit Current per MPPT [A]	40/20	40/20	40/20	40/20	40/20/20	40/20/20
No. of MPPT	2	2	2	2	3	3
Strings per MPPT	2/1	2/1	2/1	2/1	2/1/1	2/1/1
<b>OUTPUT AC</b>						
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		
<b>INPUT AC</b>						
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		
<b>EPS OUTPUT (WITH BATTERY)</b>						
Rated Output Power [W]	3680	5000	6000	7000	9000	11000
Rated Output Power @Different Batteries [W]	3680@H2 Battery 3680@H3 Battery 3680@H4 Battery 3680@H5 Battery 3680@H6 Battery 3680@H7 Battery	5000@H2 Battery 5000@H3 Battery 5000@H4 Battery 5000@H5 Battery 5000@H6 Battery 5000@H7 Battery	5760@H2 Battery 6000@H3 Battery 6000@H4 Battery 6000@H5 Battery 6000@H6 Battery 6000@H7 Battery	5760@H2 Battery 7000@H3 Battery 7000@H4 Battery 7000@H5 Battery 7000@H6 Battery 7000@H7 Battery	5760@H2 Battery 8640@H3 Battery 9000@H4 Battery 9000@H5 Battery 9000@H6 Battery 9000@H7 Battery	5760@H2 Battery 8640@H3 Battery 11000@H4 Battery 11000@H5 Battery 11000@H6 Battery 11000@H7 Battery
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		
Load Start Capacity [A] LRA	50.1@H2 Battery 75.1@H3 Battery 100.2@H4 Battery 110@H5 Battery 110@H6 Battery 110@H7 Battery	50.1@H2 Battery 75.1@H3 Battery 100.2@H4 Battery 110@H5 Battery 110@H6 Battery 110@H7 Battery	50.1@H2 Battery 75.1@H3 Battery 100.2@H4 Battery 110@H5 Battery 110@H6 Battery 110@H7 Battery	50.1@H2 Battery 75.1@H3 Battery 100.2@H4 Battery 110@H5 Battery 110@H6 Battery 110@H7 Battery	50.1@H2 Battery 75.1@H3 Battery 100.2@H4 Battery 110@H5 Battery 110@H6 Battery 110@H7 Battery	50.1@H2 Battery 75.1@H3 Battery 100.2@H4 Battery 110@H5 Battery 110@H6 Battery 110@H7 Battery
<b>BATTERY</b>						
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	16500/12100
Peak Discharge Current For 60 Sec. [A]				60		
CS Communication Interface				CAN 2.0		
<b>EFFICIENCY</b>						
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
<b>PROTECTION</b>						
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		
<b>GENERAL DATA</b>						
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		
<b>HMI</b>						
Display				LED, APP, Website		
Communication Interface				CAN2.0, RS485, Meter, CT, ISO alarm, SUNSPEC(modbus)		
Monitoring Module: WIFI / GPRS				Optional		