

Three Phase ALL IN ONE

AIO3-G1 Series

Built-in 2P DC breaker &
Grid/Back up AC breaker



<2Hours

Flexible and convenient, installation time is less than 2 hours



>99%

Aftersales contentment of APP&Web is over 99%



97.50%

Battery discharge efficiency is greater than 97.5% which can provide with more available power

>6000
Cycle Life@25°C



15kW
Backup peak output power up to 15kW@60S



<29 Decibel
Less than 29 decibels, household installation is more quieter



Technical Specification-Inverter

Model	AIO3-PCS-5K-G1	AIO3-PCS-6K-G1	AIO3-PCS-8K-G1	AIO3-PCS-10K-G1
DC Input (PV)				
Max. Input Power (Wp) @ STC	7,500	9,000	12,000	15,000
Max. Input Voltage (V)	1,000	1,000	1,000	1,000
MPPT Voltage Range (V)	180~900	180~900	180~900	180~900
MPPT Start-up Voltage (V)	180	180	180	180
MPPT Max. Input Current (A)	16/32	16/32	16/32	16/32
MPPT Max. Short-Circuit Current (A)	20/40	20/40	20/40	20/40
No. of MPPT	2	2	2	2
No. of PV Strings Per MPPT	1/2	1/2	1/2	1/2
PV Interface	MC4	MC4	MC4	MC4
AC (Grid On)				
Rated Apparent Power(VA)	5,000	6,000	8,000	10,000
Rated Power (W)	5,000	6,000	8,000	10,000
Max. Power (VA)	6,000	7,200	9,600	11,000
Rated Current @230Vac (A)	7.2	8.7	11.6	14.5
Max. Current (A)	8.3	10	13.3	16.7
Rated Voltage/Range (V)	230/400	230/400	230/400	230/400
Rated Frequency/Range (Hz)	50/60	50/60	50/60	50/60
Power Factor	From 0.8 leading to 0.8 lagging	From 0.8 leading to 0.8 lagging	From 0.8 leading to 0.8 lagging	From 0.8 leading to 0.8 lagging
Phase	Three-phase (3L+N+PE)	Three-phase (3L+N+PE)	Three-phase (3L+N+PE)	Three-phase (3L+N+PE)
THDi	<3%	<3%	<3%	<3%
AC Output (Back-up)				
Rated Output Power (VA)	5,000	6,000	8,000	10,000
Peak Output Power (VA)	7,500@60S	9,000@60S	12,000@60S	15,000@60S
Rated Output Voltage/Range (V)	230/400	230/400	230/400	230/400
Rated Output Frequency (Hz)	50/60	50/60	50/60	50/60
THDv	<3%	<3%	<3%	<3%
Battery Data				
Type of Battery	LiFePO ₄			
Battery Voltage Range (V)	150~600			
Max. Charge/Discharge Current (A)	30/30			
Communication Interface	CAN/RS485			
Efficiency				
Max. Efficiency	98.00%			
European Efficiency	97.50%			
Max. Battery Discharge Efficiency	97.50%			
General Data				
Dimensions (W mm*D mm*H mm)	720*210*550			
Weight (±1kg)	38			
Communication	CAN/RS485			
Communication Interface	Wifi/Meter/DRM			
Human-machine Interface	LED/APP			
Ingress Protection	IP65			
Noise (dBA)	<29			
Self-consumption at Night (W)	<10			
Topology	Non-isolated			
Cooling	Natural			
Operating Temperature Range (°C)	-25°C ~60°C (45°C ~60°C derating)			
Relative Humidity (RH)	0~95%, Non-condensation			
Altitude (m)	≤ 3,000			
Installation	Stacked Ground-mounted			
Standard and Certification	IEC62109-1/2, IEC 62477-1, IEC61000-6-1/3, EN50549-1, VDE-AR-N 4105, AS 4777.2			

Technical Specification-Battery System

Components	AIO3-HVB-10~20K-G1+ AIO3-SM-3.3K-73*3	AIO3-HVB-10~20K-G1+ AIO3-SM-3.3K-73*4	AIO3-HVB-10~20K-G1+ AIO3-SM-3.3K-73*5	AIO3-HVB-10~20K-G1+ AIO3-SM-3.3K-73*6
Model	AIO3-P-10K-G1	AIO3-P-13.3K-G1	AIO3-P-16.6K-G1	AIO3-P-20K-G1
HVB Model	AIO3-HVB-10~20k-G1			
Module Model	AIO3-SM-3.3K-73			
Module Stack Number	3	4	5	6
Battery Type	LFP			
Total Capacity (Ah)	52			
Total Energy (kWh)	10	13.3	16.6	20
Rated Capacity (Ah)	50			
Rated Energy (kWh)	9.6	12.8	16	19.2
Depth of Discharge	90%			
Usable Energy (kWh)	8.64	11.52	14.4	17.28
Rated Voltage (V)	192	256	320	384
Rated Current (A)	30			
Rated Power (w)	5,760	7,680	9,600	11,520
Operating Voltage Range (V)	168-219	224-292	280-365	336-438
Max. Charging/Discharging Current (A)	41.6(0.8C)			
Max. Charging/Discharging Power (W)	7,987.2	10,649.6	13,312	15,974.4
Weight (kg) ± 1 kg	118	150	182	214
Dimension (W * D * H) (±3 mm)	720*210*950	720*210*1140	720*210*1330	720*210*1520
Charge Temperature Range (°C)	-20~55			
Discharge Temperature Range (°C)	-20~55			
Optimum Working Temperature (°C)	10~35			
IP Grade	IP65			
Installation	Stacked Ground-Mounted			
Cooling Type	Natural			
Communication Mode	CAN/RS485			
Remote Upgrade	YES			
Relative Humidity	0%~95% (RH), Non-condensation			
Altitude (m)	≤3000			
Cycle Life (25°C/0.8C)	4500 cycles/60% SOH			
Design Life (25°C/0.8C)	10 years/60% SOH			
Standard and Certification	UN38.3/IEC62619/CE/CEC/RCM			