

HYBRID
3-PHASE AIO ALL-IN-ONE ENERGY STORAGE



TECHNICAL SPECIFICATIONS

Model	AIO-H3-5.0	AIO-H3-6.0	AIO-3-8.0	AIO-H3-10.0
INPUT PV				
Max. recommended DC Power [W]	A:3000 / B:3000	A:4000 / B:4000	A:6000 / B:4000	A:8000 / B:5000
Max. DC Voltage [V]	1000			
Nominal DC Operating Voltage [V]	720			
Max. input Current (Input A / Input B) [A]	14A/14A	14A/14A	26A/14A	26A/14A
Start-Up Voltage [V]	180V			
MPPT Voltage Range [V]	160-950			
MPPT Voltage Range (Full load) [Vdc]	210-800	250-800	240-800	280-800
No. of MPP Trackers	2			
Strings Per MPP Tracker	1+1	1+1	2+1	2+1
OUTPUT AC				
Normal AC Power [VA]	5000	6000	8000	10000
Max. apparent AC Power [VA]	5500	6600	8800	11000
Rated Grid Voltage (AC Voltage Range) [V]	400V / 230VAC; 380V / 220VAC, 3L / N / PE			
Rated Grid Frequency [HZ]	50 / 60, ±5			
Normal AC Current [A] (Per Phase)	7.2	8.7	11.6	14.5
Max. AC Current [A] (Per Phase)	8.3	10.0	13.3	16.7
Displacement Power Factor	1(Adjustable from 0.8 leading to 0.8 lagging)			
Export Control	Yes			
Total Harmonic Distortion (THDi, @Rated Output)	<3%			
INPUT AC				
Normal AC Current [A] (Per Phase)	7.2	8.7	11.6	14.5
Rated Grid Voltage [V] (AC Voltage Range)	8.3	400V / 230VAC; 380V / 220VAC, 3L / N / PE		16.7
Rated Grid Frequency	50 / 60, ±5			
Displacement Power Factor	1(Adjustable from 0.8 leading to 0.8 lagging)			
AC Inrush Current [A]	32.0			
Max. output Overcurrent Protection [A]	40.0			
BATTERY (LFP)				
Full AC load Battery Voltage [V]	205	250	330	410
Battery Voltage [V]	180-500			
Max. charge / Discharge Current [A]	26			
Communication Interfaces	CAN/RS485			
Reverse Connect Protection	YES			
EPS OUTPUT (WITH BATTERY)				
Normal AC Power [VA]	5000	6000	8000	10000
Max. apparent AC Power [VA] (60s)	7500	9000	12000	15000
Rated Output Voltage (V)	400V / 230VAC; 380V / 220VAC, 3L / N / PE			
Rated Frequency (Hz)	50 / 60			
EPS Rated Current [A] (@230VAC) (per phase)	7.2	8.7	11.6	14.5
Parallel Operation	10			
Switch Time [s]	< 1.5S			
THDV	< 3 % @Rated Power			
EFFICIENCY				
MPPT Efficiency	99.90%			
Euro-efficiency	97.00%			
Max. efficiency	97.80%			
Battery Charge Efficiency	98.50%			
Battery Discharge Efficiency	97.00%			
Standby Consumption [W] (Idle)	< 3			
STANDARD				
Safety	IEC62109-1-2 / IEC62040 / IEC62619			
EMC	IEC 61000-6-1 / IEC 61000-6-2 / IEC 61000-6-3			
Certification	G98 / AS4777.2 / EN50549-1 / CEI 0-21 / VDE-AR-N 4105 / NRS097-2-1 and so on			
ENVIRONMENT LIMIT				
Ingress Protection	IP65 (for Outdoor Use)			
Protective Class	Class I			
Inverter Operating Temperature range [°C]	-25..... +60°C (Derating at +45°C)			
Battery Operating Temperature range [°C]	-10..... +50°C			
Humidity [%]	0%-95% (Without Condensation)			
Altitude [m]	<2000m			
Storage Temperature [°C]	-40..... +70°C			
Noise Emission (Typical) [dB]	<40dB			
Over Voltage Category	III (AC), II (DC)			
GENERAL				
Dimensions (HxWxD) [mm]	630*1662.5*389			
Weight [kg]	97			
Cooling Concept	Natural			
Topology	Non-isolated			
Communication	Ethernet, Meter, WiFi (optional), ORM, USB, BMS (CAN), RS485			