

AIO Series

5H



Ip66 Rating



EPS Function



-20°C ~ 60°C



95% DOD

AIO Series : a next-generation energy storage system solution with a fully-integrated inverter/BMS and battery packs, boasting a range of advanced features.



FULLY INTEGRATED STORAGE SYSTEM

Seamlessly integrated, truly all-in-one solution. Hybrid inverter + BMS + battery packs.



LESS IS MORE | PEAK PERFORMANCE

Better & top efficiency when charging & discharging heavy loads.



HV SYSTEMS - HIGHER EFFICIENCY

Less energy lost during conversational charge & discharge.



THINNER CABLES

High voltage means lower current for the same power output.

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*Feature to be upgraded in the future. (T&C Apply)

Technical Specifications



Model	AIO-5H
PV INPUT (ONLY FOR HYBRID)	
Max. MPPT Input Power [W]	5000/5000
Max. Input Voltage [V]	600
Start-up Input Voltage [V]	75
Rated Input Voltage [V]	360
MPPT Operating Voltage Range [V]	80 ~ 550
Max. Input Current [A]	20/20
Max. Short-circuit Current [A]	25/25
No. of MPP Trackers	2
Strings per MPP Tracker	1
BATTERY CONNECTION	
Battery Type	LFP (LiFePO ₄)
Battery Energy [kWh]	10.24
Depth of Discharge [%]	95
Cycle Life	6000
AC INPUT AND OUTPUT (GRID)	
Rated Power [W]	5000
Rated Apparent Power [VA]	5000
Max. Apparent Power [VA]	5500
Rated Output Current (Per Phase) [A]	22.7
Max. AC Current (Per Phase) [A]	25.0
THDi [%]	<3 @rated power
Max. Apparent Power [VA]	6000
Max. Input Current [A] (Per Phase)	27.3
Nominal Voltage [V]	220/230/240, L/N/PE
Nominal Frequency [Hz]	50/60, ±5
Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)
Inrush Current [A]	15 @0.5ms
EPS OUTPUT	
Max. Apparent Power [VA]	5000
Peak Apparent Power [VA]	6000@60s
	7500@30s
	10000@10s
Nominal Voltage [V]	220/230/240
Nominal Frequency [Hz]	50/60
Max. Output Current (Per Phase) [A]	22.7@220V
Power Factor	1 (Adjustable)
Switch Time [ms]	<4
THDV [%]	<3@Linear Load
Parallel Operation	Yes @max 3PCS
EFFICIENCY	
Max. Conversion Efficiency [%]	97.60
European Efficiency [%]	97.20
Max. Battery Charge Efficiency (PV To BAT) @full Load [%]	97.30
Max. Battery Charge/discharge Efficiency (BAT To AC) @full Load [%]	96.40
PROTECTION	
Insulation Monitoring	YES
Residual Current Monitoring	YES
DC Reverse Polarity Protection	YES
Anti-islanding Protection	YES
AC Short-circuit Protection	YES
AC Overcurrent/Overvoltage Protection	YES
DC Switch	YES
Overvoltage Category	DC: Type II /AC: Type II
AFCI Protection	YES
GENERAL DATA	
Dimensions (W*H*D) [mm]	584*1009*197
Weight [kg]	113
Installation	Floor-mounted/Wall-mounted
Cooling Method	Intelligent air cooling
Noise Emission [dB]	<45, Average
Max. Operating Altitude [m]	<4000@Derating exceeding 2000m
Operating Temperature Range [°C]	-20 ~ 55
Humidity (No Condensation) [%]	0 ~ 100
Ingress Protection	IP66
Standby Consumption [W]	<20
Monitoring Module	WiFi, LAN, 4G
Communication Interface	Ethernet, EMS(RS 485), Meter, WLAN(WiFi+LAN+Bluetooth), 4G(Optional), DRM, Ripple Control, USB, BMS(CAN), SG Ready
Display	LED, LCD, APP, Website
Supports Dual EPS Expansion	YES
STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)	
Safety	EN/IEC 62109-1, EN/IEC 62109-2, EN/IEC62477-1,EN/IEC 62040(AU)
BIS	IS 16221 (PART 2):2015/IEC 62109-2:2011 & IS 16169:2019/IEC 62116:2014 and IS 17980:2022/ IEC 62891:2020
Grid Regulation	G99, CEI 0-21, AS/NZS 4777.2:2020, NRS 097-2-1, IEC 61727, EN 50549-1, P140/P515
Battery Regulation	IEC62619:2022
Transportation	UN 38.3
Environment	ROHS, REACH, WEEE
Warranty	10 Years or 6000 lifecycle w/e is earlier @ 25 degree

WARRANTY * AS PER WARRANTY POLICY

*FEATURE TO BE UPGRADED IN THE FUTURE. (T&C APPLY)