

AIO SERIES



Ip66 Rating



EPS Function



-20°C ~ 60°C



95% DOD

A next-generation energy storage system solution with a fully-integrated inverter charger and boasting a range of advanced features



FULLY INTEGRATED STORAGE SYSTEM

Seamlessly integrated, truly all-in-one solution.



LESS IS MORE

Sleek, minimalist design for effortless one-step installation.



DOUBLE OFF-GRID BACKUP CAPABILITY

The system experienced a 200% overload for 10 seconds.



TWO-CHANNEL UPS FUNCTION

Support dual UPS expansion.

+91 83 3388 3388

info@solaryaan.com

www.solaryaan.com

   @solaryaan

Solaryaan : A 1002, Times Square 2, Sindhu Bhavan Road, Thaltej, Ahmedabad, Gujarat 380054

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

Technical Specifications



Model	AIO-3H	AIO-5H	AIO-6H	AIO-7H	AIO-8H	AIO-9H	AIO-10H
PV INPUT (ONLY FOR HYBRID)							
Max. PV Array Power [Wp]	16000	16000	16000	20000	20000	20000	20000
Max. Input Power [W]	13000	15000	16000	17000	18000	19000	20000
Max. MPPT Input Power [W]	8000/8000	8000/8000	8000/8000	8000/8000/8000	8000/8000/8000	8000/8000/8000	8000/8000/8000
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	20/20	20/20	20/20/20	20/20/20	20/20/20	20/20/20
Max. Short-circuit Current [A]	25/25	25/25	25/25	25/25/25	25/25/25	25/25/25	25/25/25
No. of MPP Trackers	2	2	2	3	3	3	3
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]	3000	5000	6000	7000	8000	9000	10000
Rated Apparent Power [VA]	3000	5000	6000	7000	8000	9000	10000
Max. Apparent Power [VA]	3300	5500	6600	7700	8800	9900	11000
Rated Output Current (Per Phase) [A]	13.65	22.7	27.3	31.8	36.4	40.9	45.5
Max. AC Current (Per Phase) [A]	15.0	25.0	30.0	35.0	40.0	45.0	50.0
THDI [%]	<3 @rated power						
Max. Apparent Power [VA]	3600	6000	7200	8400	9600	10800	12000
Max. Input Current [A] (Per Phase)	16.35	27.3	32.7	38.2	43.6	49.1	54.5
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)						
nrush Current [A]	15 @0.5ms						
EPS OUTPUT							
Max. Apparent Power [VA]	3000	5000	6000	7000	8000	9000	10000
Peak Apparent Power [VA]	3600@60s	6000@60s	7200@60s	8400@60s	9600@60s	10800@60s	12000@60s
	4500@30s	7500@30s	9000@30s	10500@30s	12000@30s	13500@30s	15000@30s
	6000@10s	10000@10s	12000@10s	14000@10s	16000@10s	18000@10s	20000@10s
Nominal Voltage [V]	220/230/240						
Nominal Frequency [Hz]	50/60						
Max. Output Current (Per Phase) [A]	13.65@220V	22.7@220V	27.3@220V	31.8@220V	36.4@220V	40.9@220V	45.5@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, WiLAN(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						