



SOLTARO
INNOVATIVE SOLAR BATTERY STORAGE SOLUTIONS

WHEN DESIGN
MEETS INNOVATION.

The All New
AIO2 from Soltaro



All-in-One ESS - 2ND Generation

Australian Designed & Engineered

Wall Mounted

Expandable Storage

Available in Hybrid or AC Coupled
Inverter Options

WWW.SOLTARO.COM



10 (5+5) Year Warranty
or 10,000
Charging Cycles



Local &
Remote
Monitoring



Plug and Play



Expandable
Storage



Expert
Engineering



Clean Energy

CONTACT US

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DEVICE SHORT NAME	AIO2 - 5KW/5kWh	AIO2 5KW/10kWh	
PV STRING INPUT (DC)			
Max. DC Input Power (W)	7500W	7500W	
Max. DC Input Voltage (V)	600V	600V	
MPPT Voltage Range (V)	125V~500V	125V~500V	
Max. Input Current (A)	12A/12A	12A/12A	
Max. Short Circuit Current (A)	15A/15A	15A/15A	
No. of MPP Trackers	2	2	
Strings per MPP Tracker	1	1	
Galvanic Isolation for PV Modules	Transformerless	Transformerless	
BATTERY INPUT SIDE			
Battery Capacity	LiFePO4 5KWH/10KWH (Maximum 3 modules of the same type)		
Useable Energy	4.5 kWh	9kWh	
Nominal Battery Voltage	51.2V	51.2V	
Battery Voltage Range	40-58.4V	40-58.4V	
Galvanic Isolation for Battery	YES	YES	
Max. Charge Current*1	50A xN (Max 100A)	100A	
Max. Discharge Current*1	100A	100A	
Protection	Over Voltage, Less Voltage, Over Current, Short Circuit, Over Temperature Lithium Ion: 0~100% DOD Adjustable		
GRID AC OUTPUT (ON-GRID)			
Nominal Apparent Power Output to Utility Grid (VA)*2	5000VA	5000VA	
Nominal Output Voltage (V)	190 - 260 (V)	190 - 260 (V)	
Nominal Output Frequency (HZ)	50/60 HZ	50/60 HZ	
Max. AC Current Output to Utility Grid (A)	21.7 A	21.7 A	
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Output THDI (@Nominal Output)	<3%	<3%	
EPS AC OUTPUT DATA (BACK-UP)			
Max. Output Apparent Power (VA)	5000VA	5000VA	
Max. Output Current (A)	21.7 A	21.7 A	
Nominal Output Voltage (V)	220V	220V	
Nominal Output Frequency (HZ)	50/60 (±2%)	50/60 (±2%)	
Output THDv (@Linear Load)	<3%	<3%	
Power Factor	0.8 inductive to 0.8 capacitive	0.8 inductive to 0.8 capacitive	
EFFICIENCY			
MPPT Efficiency	99.9%	99.9%	
Euro Efficiency	97.0%	97.0%	
Max. Efficiency	97.5%	97.5%	
Max. Battery to Load Efficiency	95%	95%	
Topology	High Frequency Isolation	High Frequency Isolation	
PROTECTION			
Anti-islanding Protection	YES	YES	
PV String Input Reverse Polarity Protection	YES	YES	
Insulation Resistor Dection	YES	YES	
Residual Current Monitoring Unit	YES	YES	
Output Over Current Protection	YES	YES	
Output Short Protection	YES	YES	
Output Over Voltage Protection	YES	YES	
GENERAL DATA			
DC Switch	Standard	INVERTER	BATTERY
Dimensions (W*H*D) (mm)	540x430x210mm	540x630x210mm	540x680x210mm
Net Weight (KG)	45KG	34kg	85KG
Protection Degree	IP 65	IP 65	IP 65
Mounting Information	Wall Mount	Wall Mount	Wall Mount
Operating Temperature Range	0-45°C charge / -10°C - 50°C discharge	-10°C ~ + 60°C	0-45°C charge / -10°C - 50°C discharge
Noise Emission (typical) (dB)	<25dB	<40dB	<25dB
User Interface	APP		APP
Communication with BMS*3	RS 485 & CAN		RS 485 & CAN
Communication with Meter	RS 485		RS 485
Communication with Portal	Wi-Fi (Ethernet option)		Wi-Fi (Ethernet option)
Relative Humidity (%)	95% no condensation	95% no condensation	95% no condensation
Site Altitude (m)	<2000m		<2000m
Cooling Concept	Natural Convection	Natural Convection	Natural Convection
Protective Class		I	
Over Voltage Category		III (mains) II (PV)	
CERTIFICATIONS & STANDARDS			
Grid Regulation	VDE-AR-N 4105, VDE0126-1-1, AS4777.2, G83/2, G99, CEI0-21, NRS 097-2-1, En50438		
Safety Regulation	IEC/EN62109-1&2, IEC62040-1		
EMC Standard	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4.16, EN6100-4.18, EN6100-4.29		
Warranty	5+5 Years Standard Warranty		
*1 N is the number of battery modules			
*2 4600 for VDE 0126-1-1 &VDE-AR-N4105, 4950 for AS4777.2, 4050 for CEI0-21			
*3 21.7A for AS4777.2			
*4 Can be reached only if PV and battery power is enough			
*5 The standard configuration is CAN			