

SOLTARO ALL-IN-ONE ESS IP 65-AC BATTERY



SOLTARO ALL-IN-ONE ESS

All-in-one Battery STORAGE SYSTEM

ST-AC COUPLED-3KW-2KWH/4KWH/6KWH/8KWH/10KWH

ST-AC COUPLED-3.7KW/5KW-4.5kwh/9kwh/13.5kwh/18kwh

Features

- Wall Mounted, IP 65 for out-door installation
- Compact "all-in-one" system
- Smart Grid, Back-Up, Off/On Grid
- Intelligent storage management
- Seamless switchover to keep your power on during outage(<8ms UPS level)
- "Plug&Play" Installation
- Local and remote monitoring
- Retrofit existed solar system with storage
- Perfect for micro inverter(AC Solar Panel) system

SOLTARO ALL-IN-ONE LFP ENERGY STORAGE SYSTEM

STORING SOLAR ENERGY SIMPLY AND COST-EFFECTIVELY

The Soltaro All-in-one ESS is simple to install, safe, very reliable, and provides the lowest lifetime energy cost for both new solar customers and retrofit customers. As an installer, you can design the right system size to meet the need of the homeowner.

SIMPLER

- Quick and easy single person installation
- Plug and play installation, all necessary components included
- Interconnects with standard household
- AC Wiring

SAFER

- No high voltage for battery installation
- Cells safety tested and certified by Intertek
- Prismatic LFP cells are highly stable over time

GREAT RELIABILITY

- Lithium iron phosphate(LFP) chemistry for long cycles life
- 10-year warranty
- Modular design promotes redundancy



SOLTARO CHINA

B1-416, NO. 200 LINGHU ROAD,
XINWU DISTRICT, WUXI, 214110, CHINA
T. +86 510 8102 6876
E. SALES@SOLTARO.COM.CN

SOLTARO AUSTRALIA

LEVEL 9, 440 COLLINS STREET,
MELBOURNE VIC 3000, AUSTRALIA
T. +61 1300 2 SOLTARO
E. SALES@SOLTARO.COM.AU

SOLTARO UK

UNIT E, ACORN PARK, LENTON LANE INDUSTRIAL ESTATE
NOTTINGHAM, NG7 2TR, UK
T. +44 (0) 115 986 7240
E. SALES@SOLTARO.CO.UK

SOLTARO EUROPE

PORTA PIAZZETTA, 2 GR-6537 SAN VITTORE -
SWITZERLAND
T. +39 335 6263391/+41 76 268 84 20
E. SALES@SOLTARO.EU

SOLTARO ALL-IN-ONE ESS

Technical Specifications

DEVICE SHORT NAME	Hyper-3KW	Hyper-3.68KW	Hyper-5KW
BATTERY INPUT SIDE			
Battery Capacity	LiFePO4 2KWH to 10KWH by step 2KWH, 4.5KWH to 22.5KWH by step 4.5KWH		
Nominal Battery Voltage	48V	48V	48V
Battery Voltage Range	40-60V	40-60V	40-60V
Galvanic Isolation for Battery	YES	YES	YES
Max. Charge Current	60A	60A(Optional 75A)	100A
Max. Discharge Current	60A	60A(Optional 75A)	100A
Protection	Over Voltage, Less Voltage, Over Current, Short Circuit, Over Temperature		
Depth of Discharge	Lithium-ion: 0~100% DOD Adjustable, Lead-acid: 0~50% DOD Adjustable		
GRID AC OUTPUT(ON-GRID)			
Nominal Apparent Power Output to Utility Grid [VA]	3000 VA	3680 VA	4600 VA
Maximum Apparent Power Output to Utility Grid [VA]	3000 VA	3680 VA	5100 VA
Max. Apparent Power from Utility Grid [VA]	6000 VA	7360 VA	9200 VA
Nominal Output Voltage [V]	230 V	230 V	230 V
Nominal Output Frequency [HZ]	50/60 HZ	50/60 HZ	50/60 HZ
Max. AC Current Output to Utility Grid [A]	16 A	16A	24.5 A
Max. AC Current From Utility Grid [A]	32 A	32A	40 A
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Output THDi [@Nominal Output]	<3%	<3%	<3%
EPS AC OUTPUT DATA(BACK-UP)			
Max. Output Apparent Power [VA]	3000VA	3680 VA	5000 VA
Peak Output Apparent [VA]	4.5KVA, 10S; 9KVA, 100MS	5.52KVA, 10S; 11KVA, 100MS	6.5 KVA, 10S; 15 KVA, 100MS
Max. Output Current [A]	16 A	16 A	21.7 A
Nominal Output Voltage [V]	230(±2%)	230(±2%)	230(±2%)
Nominal Output Frequency [HZ]	50/60(±2%)	50/60(±2%)	50/60(±2%)
Output THDv [@Linear Load]	<3%	<3%	<3%
EFFICIENCY			
MPPT Efficiency	99.9%	99.9%	99.9%
Euro Efficiency	97.0%	97.0%	97.0%
Max. Efficiency	97.8%	97.8%	97.8%
Max. Battery to Load Efficiency	95%	95%	95%
Standby Power Losses	<0.5W	<0.5W	<0.5W
Topology	High Frequency Isolation	High Frequency Isolation	High Frequency Isolation
PROTECTION			
Anti-islanding Protection	YES	YES	YES
PV Sting Input Reverse Polarity Protection	YES	YES	YES
Insulation Resistor Dection	YES	YES	YES
Residual Current Monitoring Unit	YES	YES	YES
Output Over Current Protection	YES	YES	YES
Output Short Protection	YES	YES	YES
Output Over Voltage Protection	YES	YES	YES
GENERAL DATA			
DC Switch	Optional	Optional	Optional
Dimensions(W*H*D)(mm)	414*N/1242/145mm	414*N/1374/145mm	414*N/1374/145mm
Net Weight(KG)	66KG/104KG/142KG	66KG/104KG/142KG	73KG/111KG/149KG
Protection Degree	IP 65	IP 65	IP 65
Mounting Information	Wall Bracket	Wall Bracket	Wall Bracket
Operation Temperature Range [C]	-20 C~+60 C(45 C derating)	-20 C~+60 C(45 C derating)	-20 C~+60 C(45 C derating)
Noise Emission (typical) [dB]	<25db	<25db	<25db
User Interface	APP	APP	APP
Communication with BMS	RS 485 & CAN	RS 485 & CAN	RS 485 & CAN
Communication with Meter	RS 485	RS 485	RS 485
Communication with Portal	Wi-Fi	Wi-Fi	Wi-Fi
Relative Humidity [%]	0~95%	0~95%	0~95%
Site Altitude [m]	<4000m	<4000m	<4000m
Cooling Concept	Natural Convection	Natural Convection	Natural Convection

CERTIFICATIONS& STANDARDS

Grid Regulation	VDE-AR-N 4105, VDE0126-1-1, AS4777.2, G83/2, G59, CEI 0-21, 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, EN61000-4-18, EN61000-4-29
WARRANTY	5-10 years standard warranty (depend on territory)

*1: N is the numbers of battery modules.

*2: 4600 for VDE 0126-1-1 & VDE-AR-N4105, 4950 for AS4777.2; 4050 for CEI 0-21

*3: 21.7A for AS4777.2

*4: Can be reached only if PV and battery power is enough.

*5: The standard configuration is CAN.

SOLTARO AC COUPLED ALL-IN-ONE ESS WITH MICRO INVERTER SYSTEM

