

EVi

HYBRID BATTERY INVERTER
powered by Soltaro

EcoVolt
INNOVATION IN ENERGY



THE FUTURE OF CLEAN ENERGY IS HERE
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IT'S TIME TO BECOME A PROSUMER OF ENERGY

The EcoVolt EVi solar hybrid inverter turns you into a producer of energy and a consumer of energy. We call this a "Prosumer" where the energy you produce can be used during the day and any excess energy can be used at night by the energy stored in the battery. This will dramatically reduce energy bills now and into the future.



FEATURES OF THE EVi HYBRID BATTERY INVERTER

- Natural Convection, IP 65 for Indoor and Outdoor Installation
- Retrofit seamlessly with installed PV inverters
- Compact "all-in-one" system
- Smart Grid, Back-Up, Off/On Grid
- Intelligent storage management
- Seamless switchover to keep your power on during outage
- Simplicity of use and operation "Plug&Play" Installation
- Local and remote monitoring



PART OF ECOVOLT'S
NEARLY ZERO ENERGY BUILDING SUITE (NZEB)





PLUG AND PLAY



EXPANDABLE STORAGE



EXPERT ENGINEERING



LOCAL AND REMOTE MONITORING

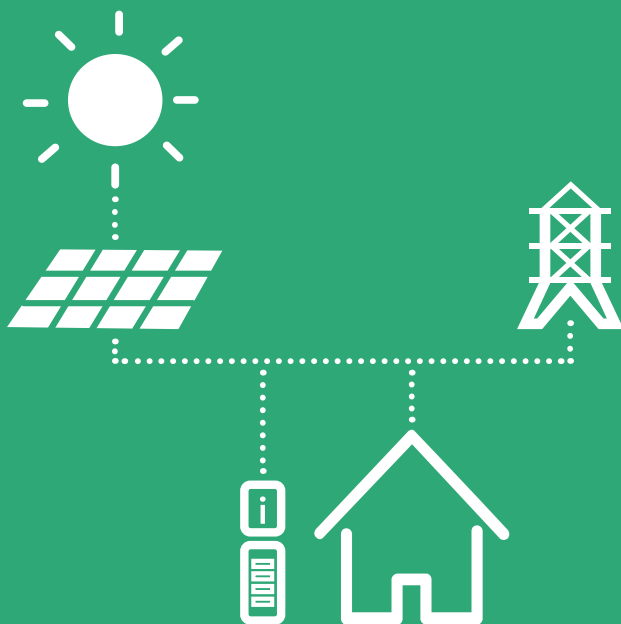


SLEEK, MODERN DESIGN



CLEAN ENERGY

The most simple and economical solar systems use an all-in-one hybrid inverter. All-in-one inverters blend a solar inverter, charger and battery inverter together with software which determines the most efficient use of your available energy.



UTILISE THE POWER OF THE SUN NOW, OR STORE IT FOR LATER!

You may be thinking about investing in Solar panels or, already have Solar PV installed in your home. Either way, investing in a Battery Storage System from EcoVolt allows you to power your home or business day or night, storing your unused generated power for use at a time that suits your lifestyle.

EVI TECHNICAL SPECIFICATIONS

DEVICE SHORT NAME	HYPER - 3KW	HYPER - 3/68KW	HYPER - 5KW
PV STRING INPUT (DC)			
Max. DC Input Power [W]	3900W	4600W	6500W
Max. DC Input Voltage [V]	550V	550V	550V
MPPT Voltage Range [V]	125~500V	125~500V	125~500V
Max. input current [A]	12.0A	10.0A/10.0A	10.0A/10.0A
Max. short circuit current [A]	15.0A	14.0A/14.0A	14.0A/14.0A
NO. of MPP Trackers	1	2	2
Strings per MPP Tracker	2	1	1
Galvanic Isolation for PV Modules	Transformerless	Transformerless	Transformerless

BATTERY INPUT SIDE

Battery Capacity	LiFePO4 2KWH/2.5KWH/4.5KWH/5KWH (Maximum 5 modules of the same type)		
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 *1	60A	60A (Optional 75A)	100A
Max. Discharge Current *2	60A	60A (Optional 75A)	100A
Protection	Over Voltage, Less Voltage, Over Current, Short Circuit, Over Temperature 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]	3000VA	3680VA	5000VA
Maximum Apparent Power Output to Utility Grid *3	3000VA	3680VA	5000VA
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]	13 A	16 A	21.7 A
Max. AC Current From Utility Grid [A]	26 A	32 A	30 A
Output Power Factor			
Output THDi [@Nominal Output]	<3%	<3%	<3%
	~1 (Adjustable from 0.8 leading to 0.8 lagging)		

EPS AC OUTPUT DATA (BACK-UP)

Max. Output Apparent Power [VA]	3000VA	3680VA	3680VA
Max. Output Current [A]	16 A	17.4 A	17.4 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	97.5%	97.5%	97.5%
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 String Input Reverse Polarity Protection	YES	YES	YES
Insulation Resistor Detection	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	(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 *5	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]	<400m	<400m	<400m
Cooling Concept	Natural Convection	Natural Convection	Natural Convection

CERTIFICATIONS & STANDARDS

Grid Regulation	VDE-AR-N 4105, VDE0126-1-1, AS4777.2, G83/2, G59, CE10-21, 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	5-10 Years Standard Warranty (dependent on territory)

*1 N is the number of battery modules

*3 21.7A for AS4777.2

*5 The standard configuration is CAN

*2 4600 for VDE 0126-1-1 & VDE-AR-N4105, 4950 for AS4777.2, 4050 for CE10-21

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



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