

EVi

HYBRID BATTERY INVERTER

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

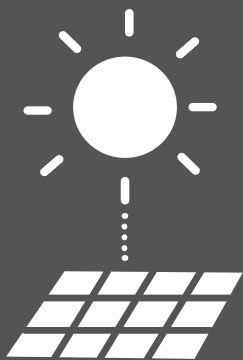


SLEEK, MODERN DESIGN



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-3.68KW

PV STRING INPUT (DC)	
Max. DC Input Power [W]	4600W
Max. DC Input Voltage [V]	580V
MPPT Voltage Range [V]	125V-500V
Max. input current [A]	11.0A/11.0A
Max. short circuit current [A]	14.0A/14.0A
NO. of MPP Trackers	2
Strings per MPP Tracker	1
Galvanic Isolation for PV Modules	NO

BATTERY INPUT SIDE	
Battery Type	Lead-Acid, Lithium-ion
Nominal Battery Voltage	48V
Battery Voltage Range	40-60V
Galvanic Isolation for Battery	YES
Max. Charge Current	60A
Max. Discharge Current	60A
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]	3680 VA
Maximum Apparent Power Output to Utility Grid [VA]	3680 VA
Max. Apparent Power from Utility Grid [VA]	7360 VA
Nominal Output Voltage [V]	230 V
Nominal Output Frequency [HZ]	50/60 HZ
Max. AC Current Output to Utility Grid [A]	16A
Max. AC Current From Utility Grid [A]	32A
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)
Output THDi [@Nominal Output]	<3%

EPS AC OUTPUT DATA (BACK-UP)	
Max. Output Apparent Power [VA]	3680 VA
Peak Output Apparent [VA]	5.52KVA, 10S; 11KVA, 100MS
Max. Output Current [A]	16 A
Nominal Output Voltage [V]	230(±2%)
Nominal Output Frequency [HZ]	50/60(±2%)
Output THDv [@Linear Load]	<3%

PROTECTION
 Anti-islanding Protection
 PV Rating Input Reverse Polarity Protection
 Insulation Resistor Detection
 Residual Current Monitoring Unit
 Output Over Current Protection
 Output Short Protection
 Output Over Voltage Protection

EFFICIENCY	
MPPT Efficiency	99.9%
Euro Efficiency	97.0%
Max. Efficiency	97.8%
Max. Battery to Load Efficiency	95%
Standby Power Losses	<0.5W
Topology	High Frequency Isolation

GENERAL DATA	
DC Switch	Optional
Dimensions(L*W*H)(mm)	480*520*173mm
Net Weight(KG)	28kg
Protection Degree	IP 65
Mounting Information	Wall Bracket
Operation Temperature Range [C]	-20 C~+60 C(45 C derating)
Noise Emission (typical) [dB]	<25db
User Interface	APP
Communication with BMS	RS 485 & CAN
Communication with Meter	RS 485
Communication with Portal	Wi-Fi
Relative Humidity [%]	0~95%
Site Altitude [m]	<4000m
Cooling Concept	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 (depending on region)



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