



EZHI

Single-phase Hybrid Microinverter for Storage

Introduction

The EZHI is a miniature energy storage solution designed specifically for balcony photovoltaic setups. The core advantage of this system lies in its ability to store excess daytime generated power for nighttime or future use, enhancing energy utilization and optimizing cost-effectiveness according to customer needs.

EZHI is compatible with various photovoltaic micro-inverter systems, allowing for seamless integration into existing balcony photovoltaic setups.

Featuring off-grid EPS functionality, the EZHI products provide backup power for lighting, household appliances, and more to address sudden power interruptions. Additionally, EZHI can also serve as a portable power source, meeting users' various off-grid power needs. The easy installation design provides users with flexibility and convenience.

Features

Safety

- System-level IP65.
- 51.2V low battery voltage input.
- Intelligent charging technology, protecting battery life.
- High and low voltage isolation topologies, ensuring personal safety.

Performance

- GaN inside, supports 2400W continuous fast charge.
- Fanless design for ultra-quiet operation.
- UPS-level switching time <10ms.

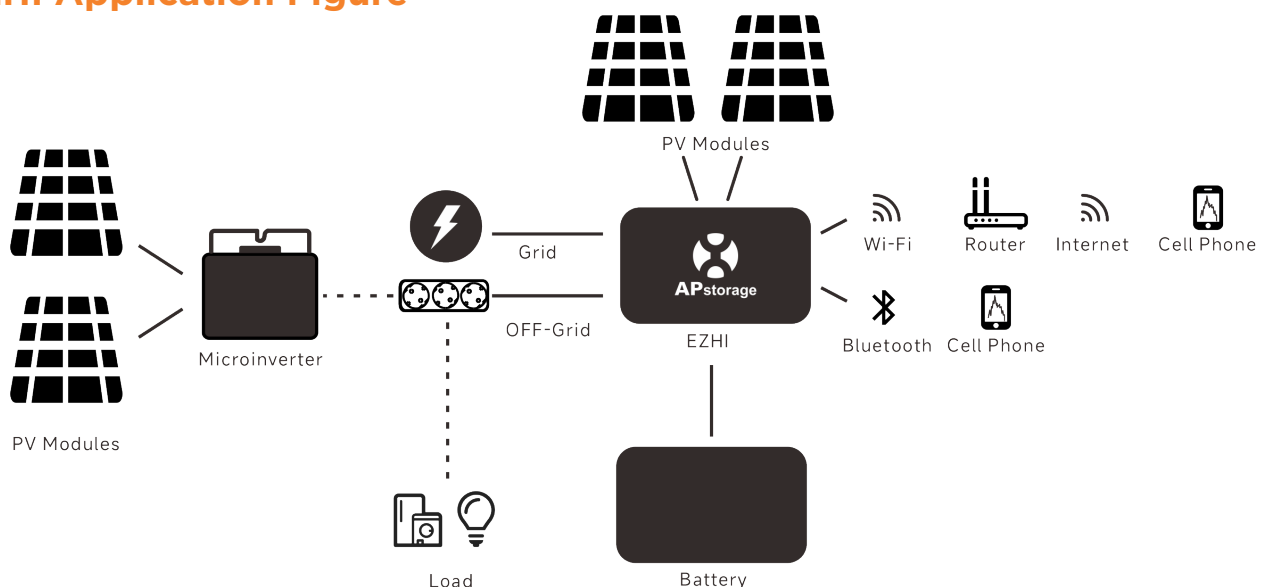
Flexible

- Compatible with multiple battery brands.
- Support for expanding the capacity of multiple battery packs.
- Support for AC coupling in balcony microinverter system.
- More flexible installation of split batteries.

Intelligent

- 24-hour intelligent energy management system.
- Intelligent operation and maintenance platform with EMA.
- One-click installation of the app is more efficient.

EZHI Application Figure



Model
EZHI
Region
EMEA
PV Input

Maximum input power	600W×2
Operating voltage range	12V-60V
Maximum input voltage	60V
MPPT voltage range	12V-48V
Start-up voltage	18V
Maximum input continuous current	17A×2
Isc PV	25A×2

AC Input and Output (on-grid Port)

Grid type	Single-phase
Nominal AC voltage ⁽¹⁾	230V
Nominal AC frequency ⁽¹⁾	50Hz
Default output apparent power ⁽²⁾	800VA
Maximum input and output continuous power	1200VA
Maximum input and output continuous current ⁽³⁾	5.22A
Power factor range	>0.99(+/- 0.8adj.)
EPS Switch Time	10ms

AC Input and Output (off-grid Port)

Grid type	Single-phase
Nominal AC voltage	230V
Nominal AC frequency	50Hz
Maximum output continuous power	1200VA
Peak output apparent power	1800VA, 10s
Maximum input continuous power	2400VA
Maximum output continuous current	5.22A
Maximum input continuous current	10.43A

Battery Input/Output (Battery Port)

Nominal input/output voltage range	40-60VDC
Nominal battery voltage	51.2V
Maximum Charge Power ⁽⁴⁾	2400VA
Communication Ports	CAN
Maximum Continuous Discharge Power	1200VA
Peak Discharge Power	1800VA,10s
Maximum output continuous current	27A
Maximum input continuous current	40A

General Specifications

Dimensions W/H/D	341mm×260mm×47mm
Weight	7.1KG
Maximum Efficiency	96.2%
Operating Ambient Temperature Range	-40°C-65°C
Storage Temperature Range	-40°C-85°C
Ingress Protection	IP67
Relative Humidity	10%-90%
DC Connector Type	Stäubli MC4 PV-ADBP4-S2&ADSP4-S2
Cooling	Natural Convection-No Fans
Maximum Altitude	<2000m
Pollution Degree Classification	PD3
Overvoltage Category	OVC II For PV and Battery Input Circuit, OVC III For Mains Circuit

Features

Communication	Built-in Wi-Fi and Bluetooth
Energy Management	AP EasyPower APP
Warranty	12 Years Standard

Compliances

Safety, EMC & Grid Compliances	EN 62109-1/-2; EN 62477-1; EN IEC 61000-6-1/-2/-3/-4; EN 62920; VDE-AR-N 4105
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(1)The nominal voltage/frequency range may vary based on local requirements.

(2)The default output power is 800VA and it is adjustable between 0-1200VA through APP, please follow the local regulation.

(3)It is the ratio of max. output apparent power to nominal AC voltage.

(4)The maximum power can be utilized for charging from both PV and AC port.

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