APstorage

Safe and **Smart** Energy Management System

EZHI SERIES

Single-phase Hybrid Microinverter for Storage

Wi-Fi Version for DIY

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 40A continuous fast charge.
- Fanless design for ultra-quiet operation.
- UPS-level switching time 5ms.

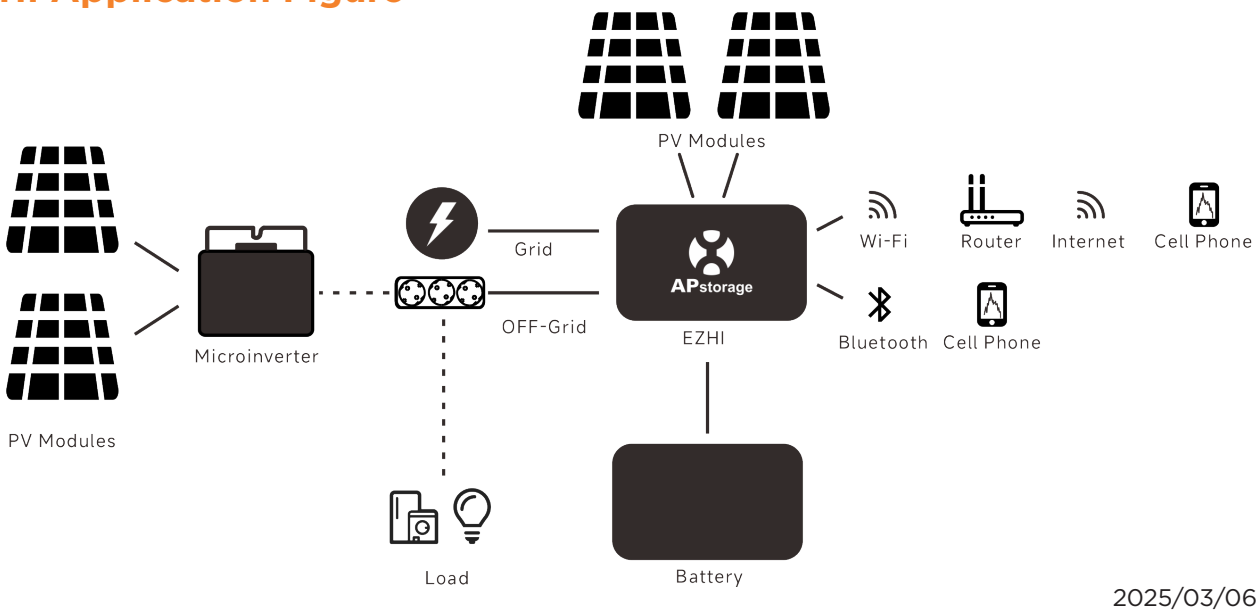
Flexible

- 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.
- Quick and easy installation of an app.

EZHI Application Figure



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Datasheet | EZHI

Model	EZHI
Region	EMEA

PV Input

Maximum input power	600W×2
Recommended PV Module Power (STC) Range(1)	430Wp-900Wp+
Operating voltage range	12V-60V
Maximum input voltage	60V
MPPT voltage range	12V-48V
Start-up voltage	18V
Maximum continuous input current	17A×2
Isc PV	25A×2

AC Input and Output (on-grid Port)

Grid type	Single-phase
Nominal AC voltage(2)	230V
Nominal AC frequency(2)	50Hz
Default output apparent power(3)	800VA
Maximum continuous output power	1200VA
Maximum continuous output current	5.22A
Maximum continuous input power	1200VA
Maximum continuous input current	5.22A
Power factor range	>0.99(+/- 0.8adj.)
EPS Switch Time	5ms

AC Input and Output (off-grid Port)

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

Battery Ratings (Battery Port)

Battery voltage range	40-60VDC
Nominal battery voltage	51.2V
Communication Ports	CAN
Maximum Continuous Discharge Power	1200VA
Peak Discharge Power	1800VA,10s
Maximum discharge current	27A
Maximum charge current	40A

General Specifications

Dimensions W/H/D	351mm×269mm×47mm
Weight	8KG
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%
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
Frequency Range	2412MHz-2472MHz (WIFI), 2402MHz-2480MHz (Bluetooth)
RF Output Power (EIRP)	18.88 dBm (WIFI), 0.67dBm (Bluetooth)

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;EN 303 645; EN 50549-1; NF EN 50549-1; EN 50549-10; NF EN 50549-10; G98; G99; G98/NI; G99/NI

(1)Two modules with STC less than 450 W can be connected in parallel for each input channel.
(2)The nominal voltage/frequency range may vary based on local requirements.
(3)It can be customized by using the AP EasyPower App and can be adjusted up to 1200 VA.

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