



EZOG-LV

Single-phase Offgrid Microinverter for Storage

Introduction

EZOG-LV is a new type of hybrid micro-inverter that integrates solar energy storage and AC sine wave output. Its core function is to store excess power generated during the day into a battery for use at night or at a later time. It uses third-generation semiconductor GAN power transistors and two independent MPPT modules, offering extremely high photovoltaic charging and tracking efficiency. The MPPT controller includes an intelligent charging strategy that can adjust the charging current and voltage based on the actual condition of the battery, preventing overcharging and undercharging, thereby extending the battery's lifespan. The DC-AC inverter module is designed based on DSP, using full digital dual-loop control of voltage and current, advanced SPWM technology, and outputs pure sine waves, suitable for AC loads such as home lighting, power tools, electronic audio-visual equipment, and industrial devices. Its simple installation design provides users with flexibility and convenience.

Features

Safety

- System-level IP67.
- 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.

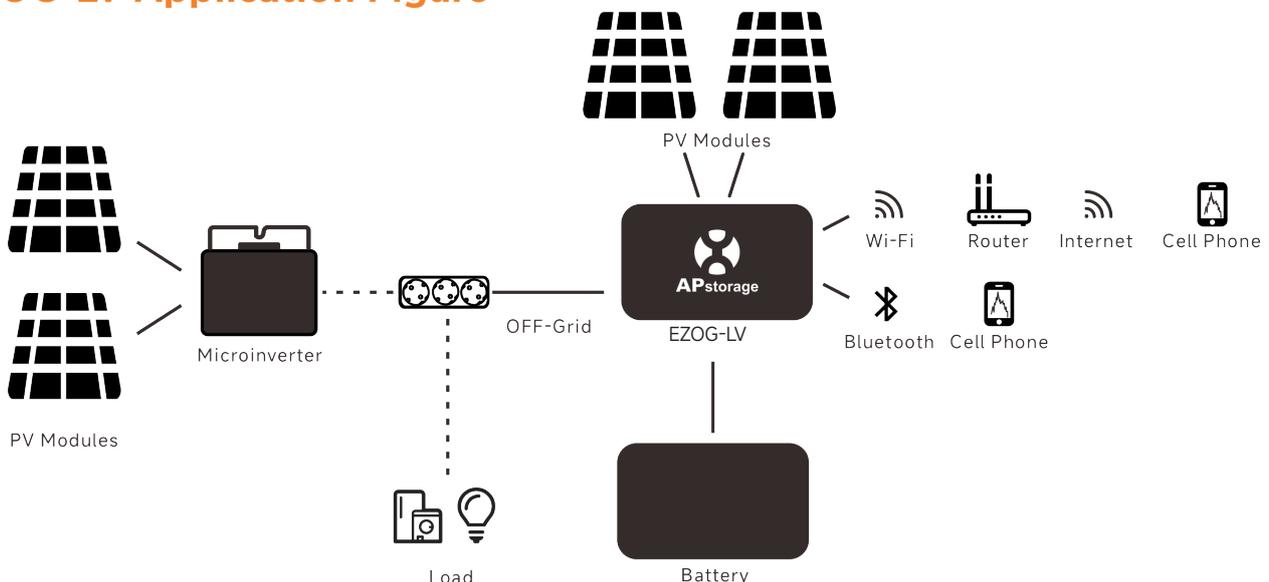
Flexible

- Compatible with multiple battery brands.
- Support for expanding the capacity of multiple battery packs.
- More flexible installation of split batteries.
- Off-grid output Parallel function expands inverter output capability.

Intelligent

- 24-hour intelligent energy management system.
- Intelligent operation and maintenance platform with EMA.
- Quick and easy installation of an app.

EZOG-LV Application Figure



Model

EZOG-LV

PV Input

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 (off-grid Port)

Grid type	Single-phase
Nominal AC voltage	110V/120V
Nominal AC frequency	60Hz
Maximum continuous output power	1000VA
Peak output apparent power	1500VA, 10s
Maximum continuous output current	9.09A
Maximum continuous input power	1000VA
Maximum continuous input current	9.09A

Battery Ratings (Battery Port)

Battery voltage range	40-60VDC
Nominal battery voltage	51.2V
Communication Ports	CAN
Maximum Continuous Discharge Power	1000VA
Peak Discharge Power	1500VA,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-55°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

Features

Communication	Built-in Wi-Fi and Bluetooth
Energy Management	AP EasyPower APP
Warranty	5 Years Standard

Compliances

Safety, EMC Compliances	IEC 62109-1/-2; IEC 62477-1; IEC 61000-6-1/-2/-3/-4; IEC 62920
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⁽¹⁾ 2 modules with STC ca. 450 W can be connected in parallel for each input channel, that means 2*2x450W.

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