



PVMI-1000

OFF-GRID INTEGRATED MICRO INVERTER

Developing an integrated
multi-functional
on-Grid & off-grid energy
storage solution

**NEW
ENERGY**

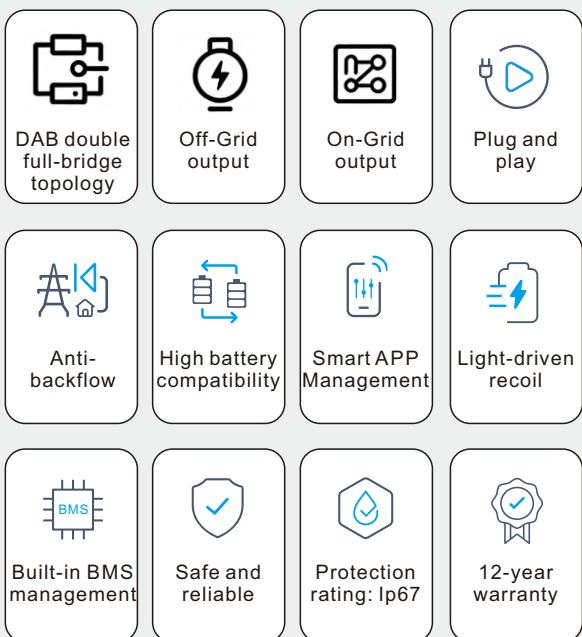
Battery Storage

PVMI-1000

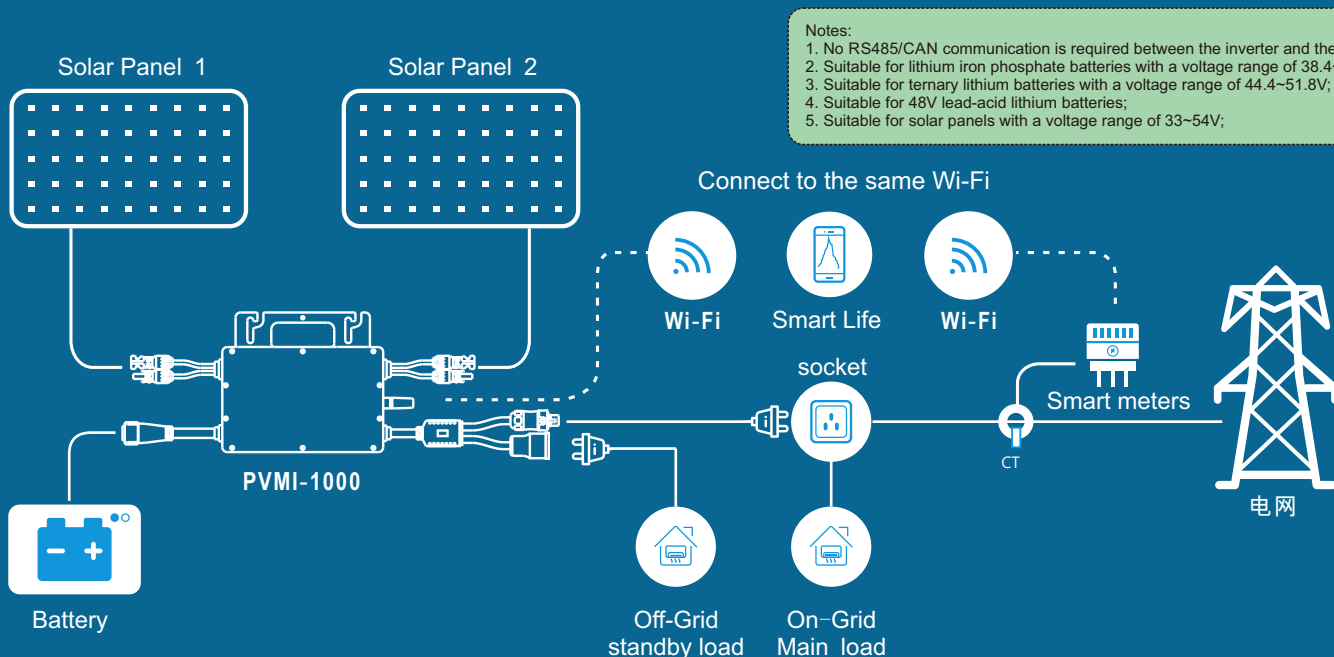
Multifunctional grid-connected microinverter

The PVMI-1000 is a new generation of micro hybrid energy storage inverter designed for scenarios such as residential photovoltaic energy storage, RV/yacht power supply/outdoor camping/off-grid power supply in remote areas/home emergency backup power supply/small commercial energy storage systems.

It can be directly connected to photovoltaic modules and energy storage batteries to store the electricity generated by the photovoltaic system during the day for use by the load at night, thereby improving energy utilization and optimizing electricity costs. The PVMI also has off-grid functionality, providing backup power for loads such as lighting and household appliances, solving the problem of sudden power outages. Furthermore, the PVMI-1000 can also perform AC reverse charging during off-peak electricity pricing, charging the battery when electricity prices are low.



Connection diagram of the integrated On-Grid & off-grid system



INTEGRATED GRID-CONNECTED MICRO INVERTER
INTEGRATED MULTIFUNCTIONAL GRID-CONNECTED ENERGY STORAGE SOLUTION

FEATURES

PVMI-1000 Off-grid integrated smart inverter

Ultimate security

- + Equipped with low-voltage components and batteries, it avoids the safety hazards caused by high voltage.
- + High-frequency transformer isolation design eliminates the risk of leakage.
- + The inverter and battery are installed separately, keeping the battery away from the area where electricity is used.

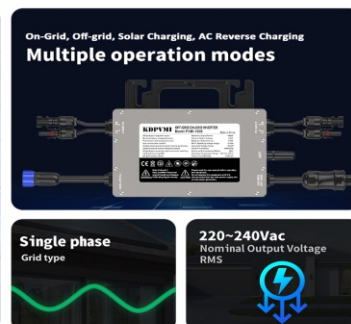


Open, compatible, and freely linkable

- + Compatible with all brands of 51.2V low-voltage lithium iron phosphate batteries
- + Compatible with lithium iron phosphate/lead-acid/ternary lithium batteries
- + Supports AC coupling access to photovoltaic systems
- + When paired with a smart meter, it can achieve zero-feedback functionality, maximizing self-generation and self-consumption.

Multiple output types, leading functionality

- + Fanless design enables ultra-quiet operation
- + Built-in BMS intelligent battery control management system
- + Supports AC reverse fast charging
- + Supports photovoltaic fast charging, enabling simultaneous charging and discharging.
- + 1000W grid-connected and off-grid output function



Plug and play, intelligent and flexible

- + Suitable for DIY installation users, quick and easy.
- + Supports expansion of multiple battery pack capacities
- + Remote control via mobile app

Consistent quality, reliable and durable

- + With an IP67 protection rating, it is suitable for both indoor and outdoor installation.
- + 12-year warranty
- + 1000W high power output, uninterrupted power support
- + Multiple functions can be switched at any time to suit different application scenarios.



Developing an integrated, multi-functional on- and off-grid energy storage solution

PARAMETER | PVMI-1000

DC input

Recommended component power range	2*400W~625W
Operating voltage range	22V-65V
Maximum DC input voltage	65V
MPPT voltage range	30V-54V
Start-up voltage	22V
Maximum DC input current	15A×2
Maximum DC short-circuit current	20A×2

AC input and output (grid-connected ports)

Power grid type	Single phase
Rated AC voltage	220V
Rated AC frequency	50Hz
Maximum continuous output power	1200VA
Maximum continuous output current	5.45A
Maximum continuous input power	1200VA
Maximum continuous input current	5.45A
Power factor range	>0.99(+/- 0.8adj.)
EPS switching time	5ms

AC input and output (off-network ports)

Power grid type	Single phase
Rated AC voltage	230V
Rated AC frequency	50Hz
Maximum continuous output power	1000W
Peak output power	1200W, 10s
Maximum continuous output current	4.5A
Maximum continuous input power	1500W
Maximum continuous input current	30A

Battery ratings (battery port)

Battery voltage range	48VDC
Nominal battery voltage	51.6V
Communication port	RS485/Local SOC
Maximum continuous discharge power	1000W
Peak discharge power	1500W
Maximum discharge current	30A
Maximum charging current	20A

Mechanical data

Dimensions (Length * Width * Height)	230mm × 200mm × 42mm
weight	5.62Kg
Maximum efficiency	97%+
Operating ambient temperature	-40°C~65°C
Storage environment humidity	-40°C~85°C
Protection level	IP67
relative humidity	10%-99%
cool down	Natural cooling - fanless
highest altitude	<2000m
Pollution level classification	Pd3

Other features

Communication methods	Built-in Wi-Fi and Bluetooth
monitor	Smart Life App

conform to

Safety, EMC and grid compliance	NB/T 32004
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(1) Two input DC channels can be connected in parallel.

(2) The nominal voltage/frequency range may vary depending on local requirements.

*The specifications in this brochure are subject to change without notice. Please contact customer service for details.