

BP Series

Retrofit Inverter Unit for Battery Storage



The GoodWe BP series DC energy-storage system is compatible with most single-phase on-grid inverters. Ordinary PV stations can be upgraded to PV energy storage systems with the addition of a BP energy storage unit. During daytime, the PV system generates electricity which can be firstly provided to the loads. Then the excess energy will charge the battery via the BP energy storage system. During the night, battery discharges via BP energy storage system, then electricity will be provided to the loads via PV inverter. The BP energy storage system improves self consumption ratio greatly.

- Normal on-grid system equipped with storage function
- Intelligent battery management function
- BMS communication integrated
- Nominal 48V battery, secure and reliable
- Easy access to single-phase on-grid system
- Higher self-consumption ratio
- Up to 10 safety measurements
- Max. Battery Charge efficiency 96%
- Fanless low-noise design
- 45°C full-load output
- IP65 protection class

Technical Data

GW2500-BP

PV input

Max. PV input power [W]	6000
Max. PV input voltage [V]	600
Max. PV input current [A]	25
No. of PV input & output connectors	1/1
PV connector	AMPHENOL/ MC4/ SUNCLIX

Battery

Battery type	Lead-acid or Li-Ion
Nominal voltage [V]	48
Max. discharge/charge current [A]	50/50A
Max. discharge/charge power [W]	2500/2500
Battery capacity	>=50Ah (depending requirement)
Charging curve	3-stage adaptive with maintenance
Over current protection	Integrated

BP output and input data

Rated output voltage while discharging [V]	360
Rated output current while discharging [A]	6.5
PV voltage range while Battery charging [V]	150~480
Max input current while charging [A]	10

Efficiency

Max. battery charge efficiency	96.0%
Max. battery discharge efficiency	96.5%

Certifications & standards

Safety/EMC	CE
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General data

Dimensions (WxHxD)	344*274.5*128mm
Weight [kg]	8
Mounting	Wall bracket
Ambient temperature range	-25~60°C(>45°C derating)
Relative humidity	0~95%
Max. operating altitude	4000m(>3000m derating)
Protection degree	IP65
Topology	High frequency insulation
Standby losses [W]	<8
Cooling	Natural convection
Noise emission [dB]	<25
Display	LCD & LED light
Communication	USB2.0;WiFi;RS485
Standard warranty [years]	5