



BP Series

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
- IP65 protection class
- Up to 10 safety measurements
- Max. Battery Charge efficiency 96%
- Fanless low-noise design
- 45°C full-load output

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	MC4/ Phoenix/ Amphenol
Battery	
Battery Type	Lead-acid or Li-Ion
Norminal Voltage [V]	48
MAX Discharge/Charge current [A]	50/50A
MAX Discharge/Charge power [W]	2500/2500
Battery capacity [Ah]	50~1000
Charging curve	3-stage adaptive with maintenance
BP output and input data	
Rated output voltage [V]	360
Output voltage range [V]	250~360
Input voltage range while chargeing [V]	150~500
Max input and output current [A]	10
Protection	
Battery over & low voltage protection	Integrated
Over current protection	Integrated
Output current short protection	Integrated
Efficiency	
Max. Battery Charge efficiency	96.0%
Max. Battery Discharge efficiency	96.5%
Certifications & standards	
Safety/EMC	CE
General data	
Dimensions (WxHxD) [mm]	344*274.5*128
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	Nature convection
Noise emision [dB]	<25
Display	LCD & LED light
Communication	USB2.0;WiFi;RS485
Standard warranty [years]	5