

# GOODWE

## A-BP Series

(Americas only)  
5-9.6kW | Split-phase  
AC-Coupled HV Retrofit Inverter

GoodWe's A-BP Series is designed to supplement an existing on-grid PV system and connect with high voltage batteries to seamlessly upgrade to a full storage system. The inverter can boost the PV system without the grid, ensuring the grid-tied inverter stays connected if the grid is compromised. With frequency shifting, the A-BP can regulate the output power of the grid-tied inverter and change the AC frequency to prevent over charging the battery. With an inbuilt smart meter and plug & play AC connectors, the inverter is easy to install. The A-BP can support whole home backup and is compatible with various brands of grid-tied inverters.



Micro-grid Applications



Whole Home Backup



Ultra Rapid Charge



Frequency Shifting



Smart Meter Integrated

Technical Data	GW5000A-BP	GW6000A-BP	GW7000A-BP	GW7600A-BP	GW8600A-BP	GW9600A-BP
<b>Battery Input Data</b>						
Battery Type	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion	Li-Ion
Battery Voltage Range (V) <sup>1</sup>	80 ~ 495	80 ~ 495	80 ~ 495	80 ~ 495	80 ~ 495	80 ~ 495
Max. Continuous Charging Current (A)	50	50	50	50	50	50
Max. Continuous Discharging Current (A)	50	50	50	50	50	50
<b>AC Output Data (On-grid)</b>						
Max. Apparent Power Output to Utility Grid (VA)	5000	6000	7000	7600	8600	9600
Max. Apparent Power from Utility Grid (VA)	6000	7200	8400	9120	9600	9600
Output Voltage Range (Vac)	211 to 264 @240	211 to 264 @240	211 to 264 @240	211 to 264 @240	211 to 264 @240	211 to 264 @240
Nominal AC Grid Frequency (Hz)	60	60	60	60	60	60
Max. AC Current Output to Utility Grid (A)	20.8	25.0	29.2	31.7	35.8	40.0
Max. AC Current From Utility Grid (A)	25	30	35	38	40	40
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)					
Max. Total Harmonic Distortion	<3%	<3%	<3%	<3%	<3%	<3%
<b>AC Output Data (Back-up)</b>						
Max. Output Apparent Power@240V (VA)	5000 (6000@60sec)	6000 (7200@60sec)	7000 (8400@60sec)	7600 (9120@60sec)	8600 (10320@60sec)	9600 (11520@60sec)
Max. Output Current@240V (A)	20.8	25.0	29.2	31.7	35.8	40.0
Nominal Output Voltage L1-L2 / L-N (Vac)	240 / 120	240 / 120	240 / 120	240 / 120	240 / 120	240 / 120
Nominal Output Frequency (Hz)	60	60	60	60	60	60
Output THDv (@Linear Load)	<3%	<3%	<3%	<3%	<3%	<3%
<b>Efficiency</b>						
Max. Battery to AC Efficiency	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%
<b>Protection</b>						
PV Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Battery Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
<b>General Data</b>						
Operating Temperature Range (°F)	-31°F ~ 140°F (-35°C ~ 60°C)					
Relative Humidity	0 ~ 95%	0 ~ 95%	0 ~ 95%	0 ~ 95%	0 ~ 95%	0 ~ 95%
Max. Operating Altitude (ft)	≤13123ft (4000m)	≤13123ft (4000m)	≤13123ft (4000m)	≤13123ft (4000m)	≤13123ft (4000m)	≤13123ft (4000m)
Cooling Method	Intelligent Fan	Intelligent Fan	Intelligent Fan	Intelligent Fan	Intelligent Fan	Intelligent Fan
Display	LED & APP (WiFi, Bluetooth)					
Communication with BMS	RS485; CAN	RS485; CAN	RS485; CAN	RS485; CAN	RS485; CAN	RS485; CAN
Communication with Meter	RS485	RS485	RS485	RS485	RS485	RS485
Communication with Portal	Wi-Fi; LAN (Optional)					
Weight (lb)	62.8lb (28.5kg)	62.8lb (28.5kg)	70.5lb (32kg)	70.5lb (32kg)	70.5lb (32kg)	70.5lb (32kg)
Dimension W x H x D (inch)	16.3 x 31.1 x 6.9 in (415 x 790 x 175 mm)					
Noise Emission (dB)	<45	<45	<45	<45	<45	<45
Topology	Transformerless					
Self-consumption at Night (W) <sup>2</sup>	<20	<20	<20	<20	<20	<20
Ingress Protection Rating	NEMA Type 4X	NEMA Type 4X	NEMA Type 4X	NEMA Type 4X	NEMA Type 4X	NEMA Type 4X
Mounting Method	Wall Bracket	Wall Bracket	Wall Bracket	Wall Bracket	Wall Bracket	Wall Bracket
<b>Certification</b>						
Grid Standards	UL1741 SA, California Rule 21, HECO Rule 14, IEEE 1547, IEEE 1547.1					
Safety Regulation	UL 1741, CSA 22.2 No. 107-01, UL 1998, UL991, UL1699B					
EMC	FCC part15 CLASS B					

<sup>1</sup>: Battery discharge / charge power limited by voltage. When A-BP is in microgrid application, the maximum battery voltage is 405V.

<sup>2</sup>: No Back-up Output.

\*: Peak output apparent power@240V can be reached only if battery power is enough.

\*: Please visit GoodWe website for the latest certificates.