

# GOODWE

## A-BP Series

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

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

### Battery Input

Battery Type	Li-Ion					
Nominal Battery Voltage (V)	360					
Battery Voltage Range (V) <sup>1</sup>	80 ~ 495					
Max. Continuous Charging Current (A)	50					
Max. Continuous Discharging Current (A)	50					
Max. Charging Power (W)	5000	6000	7000	7600	8600	9600
Max. Discharging Power (W)	5250	6300	7350	7980	9030	10080

### AC Output (On-grid)

Nominal Apparent Power Output to Utility Grid (VA)	5000	6000	7000	7600	8600	9600
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
Nominal Output Voltage (V)	240					
Output Voltage Range (V)	211 ~ 264					
Nominal AC Grid Frequency (Hz)	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%					

### AC Output (Back-up)

Back-up Nominal Apparent Power (VA)	5000	6000	7000	7600	8600	9600
Max. Output Apparent Power (VA) <sup>2</sup>	5000 (6000@60sec)	6000 (7200@60sec)	7000 (8400@60sec)	7600 (9120@60sec)	8600 (10320@60sec)	9600 (11520@60sec)
Max. Output Current (A)	20.8	25.0	29.2	31.7	35.8	40.0
Nominal Output Voltage (V)	240 / 120					
Nominal Output Frequency (Hz)	60					
Output THDv (@Linear Load)	<3%					

### Efficiency

Max. Battery to AC Efficiency	96.6%					
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### Protection

PV Insulation Resistance Detection	Integrated
Residual Current Monitoring	Integrated
Battery Reverse Polarity Protection	Integrated
Anti-islanding Protection	Integrated
AC Overcurrent Protection	Integrated
AC Short Circuit Protection	Integrated
AC Overvoltage Protection	Integrated

### General Data

Operating Temperature Range	-31°F ~ +140°F (-35°C ~ +60°C)					
Relative Humidity	0 ~ 95%					
Max. Operating Altitude	≤13123ft (4000m)					
Cooling Method	Smart Fan Cooling					
User Interface	LED, WLAN + APP					
Communication with BMS	RS485, CAN					
Communication with Meter	RS485					
Communication with Portal	Wi-Fi, LAN (Optional)					
Weight	62.8lb (28.5kg)	62.8lb (28.5kg)	70.5lb (32kg)	70.5lb (32kg)	70.5lb (32kg)	70.5lb (32kg)
Dimension (W × H × D)	16.3 × 31.1 × 6.9 in (415 × 790 × 175 mm)					
Noise Emission (dB)	<45					
Topology	Non-isolated					
Self-consumption at Night (W) <sup>3</sup>	<20					
Ingress Protection Rating	Type 4X					
Mounting Method	Wall Mounted					

### Certification

Grid Interconnection	UL1741 SA, California Rule 21, HECO Rule 14, IEEE 1547, IEEE 1547.1
Safety Regulations	UL 1741, CSA 22.2 No. 107-01, UL 1998, UL991, UL1699B
Electromagnetic Compatibility	FCC part15 CLASS B

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

\*2: Can be reached only if battery power is enough.

\*3: No Back-up Output.

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