# GOODWE

# SBP G2 Series

3.6-6kW I Single Phase AC-coupled retrofit inverter (LV)

The GoodWe SBP G2 Series, is an AC-coupled inverter designed for retrofitting to existing single-phase or three-phase on-grid PV systems, providing an energy storage solution by adding a battery. The inverter is compatible with low-voltage batteries ranging from 40 to 60V such as the GoodWe Lynx Home U Series battlery, allowing surplus electricity to be stored for later use. The integrated plug-and-play features, compact design, and minimal weight provides easy installation, operation, and maintenance. The SBP G2 has the functionality of providing UPS-level switching to back-up mode in less than 10ms, ensuring a stable and reliable power supply.





#### Smart Control & Monitoring

- · <10ms UPS-level switching
- · Smart home integration with multi-protocol communications



### Superb Safety & Reliability

- · IP65 ingress protection
- · Remote Shutdown



#### Friendly & Thoughtful Design

- · Plug & Play
- · Elegant and compact design



## Flexible & Adaptable Applications

- · AC-coupled battery storage retrofit solution
- · Suitable for both single-phase & three-phase systems



Technical Data	GW3600-SBP-20	GW5000-SBP-20	GW6000-SBP-2
Battery Input Data			
Battery Type <sup>*1</sup>	Li-lon	Li-lon	Li-lon
Nominal Battery Voltage (V)	48	48	48
Battery Voltage Range (V)	40 ~ 60	40 ~ 60	40 ~ 60
Start-up Voltage (V)		40	
Number of Battery Input		1	
Max. Continuous Charging Current (A) <sup>11</sup>	75	120	120
Max. Continuous Discharging Current (A)*1	75	120	120
Max. Charging Power (W)*1	3600	5000	6000
Max. Discharging Power (W)	3900	5300	6300
AC Output Data (On-grid)			
Nominal Output Power (W)	3680	5000	6000
Nominal Apparent Power Output to Utility Grid (VA)	3680	5000 <sup>*2</sup>	6000 <sup>*2</sup>
Max. Apparent Power Output to Utility Grid (VA)	3680	5000 <sup>*2</sup>	6000*2
Max. Apparent Power from Utility Grid (VA)	7360	10000	10000
Nominal Output Voltage (V)	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240
Output Voltage Range (V)	170 ~ 280	170 ~ 280	170 ~ 280
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60
Max. AC Current Output to Utility Grid (A)	16.7	22.7	27.3
Max. AC Current From Utility Grid (A)	33.5	43.5	43.5
Nominal Output Current (A)	16.0	21.7	26.1
Power Factor		justable from 0.8 leading to 0.8 la	agging)
Max. Total Harmonic Distortion	<3%	<3%	<3%
AC Output Data (Back-up)			
Back-up Nominal Apparent Power (VA)	3680	5000	6000
Max. Output Apparent Power without Grid (VA)	3680 (7360@10sec)	5000 (10000@10sec)	6000 (10000@10sec
Max. Output Apparent Power with Grid (VA)	3680	5000	6000
Max. Output Current (A)	16.7	22.7	27.3
Nominal Output Voltage (V)	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240
Nominal Output Frequency (Hz)	50 / 60	50 / 60	50 / 60
Output THDv (@Linear Load)	<3%	<3%	<3%
Efficiency			
Max. Battery to AC Efficiency	95.5%	95.5%	95.5%
Protection			
Residual Current Monitoring	Integrated	Integrated	Integrated
	Integrated	Integrated	Integrated
Anti-islanding Protection			
AC Overcurrent Protection	Integrated	Integrated	Integrated
AC Overcurrent Protection AC Short Circuit Protection	Integrated	Integrated	Integrated
AC Overcurrent Protection AC Short Circuit Protection AC Overvoltage Protection	Integrated Integrated	Integrated Integrated	Integrated Integrated
AC Overcurrent Protection AC Short Circuit Protection AC Overvoltage Protection AC Surge Protection	Integrated Integrated Type III	Integrated Integrated Type III	Integrated Integrated Type III
AC Overcurrent Protection AC Short Circuit Protection AC Overvoltage Protection AC Surge Protection Remote Shutdown	Integrated Integrated	Integrated Integrated	Integrated Integrated
AC Overcurrent Protection AC Short Circuit Protection AC Overvoltage Protection AC Surge Protection AC Surge Protection Remote Shutdown  General Data	Integrated Integrated Type III Integrated	Integrated Integrated Type III Integrated	Integrated Integrated Type III Integrated
AC Overcurrent Protection AC Short Circuit Protection AC Overvoltage Protection AC Surge Protection AC Surge Protection Remote Shutdown  General Data  Operating Temperature Range (°C)	Integrated Integrated Type III Integrated  -25 ~ +60	Integrated Integrated Type III Integrated	Integrated Integrated Type III Integrated
AC Overcurrent Protection AC Short Circuit Protection AC Overvoltage Protection AC Surge Protection AC Surge Protection Remote Shutdown  General Data  Operating Temperature Range (°C) Relative Humidity	Integrated Integrated Type III Integrated  -25 ~ +60 0 ~ 95%	Integrated Integrated Type III Integrated  -25 ~ +60 0 ~ 95%	Integrated Integrated Type III Integrated  -25 ~ +60 0 ~ 95%
AC Overcurrent Protection AC Short Circuit Protection AC Overvoltage Protection AC Surge Protection AC Surge Protection Remote Shutdown  General Data  Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m)	Integrated Integrated Type III Integrated  -25 ~ +60 0 ~ 95% 3000 (>2000 derating)	Integrated Integrated Type III Integrated  -25 ~ +60 0 ~ 95% 3000 (>2000 derating)	Integrated Integrated Type III Integrated  -25 ~ +60 0 ~ 95% 3000 (>2000 deratin
AC Overcurrent Protection AC Short Circuit Protection AC Overvoltage Protection AC Surge Protection AC Surge Protection Remote Shutdown  General Data  Operating Temperature Range (°C) Relative Humidity  Max. Operating Altitude (m) Cooling Method	Integrated Integrated Type III Integrated  -25 ~ +60 0 ~ 95% 3000 (>2000 derating) Natural Convection	Integrated Integrated Type III Integrated  -25 ~ +60 0 ~ 95% 3000 (>2000 derating) Natural Convection	Integrated Integrated Type III Integrated  -25 ~ +60 0 ~ 95% 3000 (>2000 deratin Natural Convection
AC Overcurrent Protection AC Short Circuit Protection AC Overvoltage Protection AC Surge Protection Remote Shutdown  General Data  Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m) Cooling Method User Interface	Integrated Integrated Type III Integrated  -25 ~ +60 0 ~ 95% 3000 (>2000 derating) Natural Convection LED, WLAN + APP	Integrated Integrated Type III Integrated  -25 ~ +60 0 ~ 95% 3000 (>2000 derating) Natural Convection LED, WLAN + APP	Integrated Integrated Type III Integrated  -25 ~ +60 0 ~ 95% 3000 (>2000 deratin Natural Convection LED, WLAN + APP
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AC Overcurrent Protection AC Short Circuit Protection AC Overvoltage Protection AC Surge Protection Remote Shutdown  General Data  Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m) Cooling Method User Interface Communication with BMS Communication with Meter	Integrated Integrated Type III Integrated  -25 ~ +60 0 ~ 95% 3000 (>2000 derating) Natural Convection LED, WLAN + APP CAN RS485	Integrated Integrated Type III Integrated  -25 ~ +60 0 ~ 95% 3000 (>2000 derating) Natural Convection LED, WLAN + APP CAN RS485	Integrated Integrated Type III Integrated  -25 ~ +60 0 ~ 95% 3000 (>2000 deratin Natural Convection LED, WLAN + APP CAN RS485
AC Overcurrent Protection AC Short Circuit Protection AC Overvoltage Protection AC Surge Protection Remote Shutdown  General Data  Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m) Cooling Method User Interface Communication with BMS Communication with Meter Communication with Portal	Integrated Integrated Type III Integrated  -25 ~ +60 0 ~ 95% 3000 (>2000 derating) Natural Convection LED, WLAN + APP CAN RS485 WiFi / WiFi + LAN / 4G	Integrated Integrated Type III Integrated  -25 ~ +60 0 ~ 95% 3000 (>2000 derating) Natural Convection LED, WLAN + APP CAN RS485 WiFi / WiFi + LAN / 4G	Integrated Integrated Type III Integrated  -25 ~ +60 0 ~ 95% 3000 (>2000 deratin Natural Convection LED, WLAN + APP CAN RS485 WiFi / WiFi + LAN / 4
AC Overcurrent Protection AC Short Circuit Protection AC Overvoltage Protection AC Surge Protection Remote Shutdown  General Data  Operating Temperature Range (°C) Relative Humidity Max. Operating Altitude (m) Cooling Method User Interface Communication with BMS Communication with Meter Communication with Portal Weight (kg)	Integrated Integrated Type III Integrated  -25 ~ +60 0 ~ 95% 3000 (>2000 derating) Natural Convection LED, WLAN + APP CAN RS485 WiFi / WiFi + LAN / 4G 19.2	Integrated Integrated Type III Integrated  -25 ~ +60 0 ~ 95% 3000 (>2000 derating) Natural Convection LED, WLAN + APP CAN RS485 WiFi / WiFi + LAN / 4G 19.5	Integrated Integrated Type III Integrated  -25 ~ +60 0 ~ 95% 3000 (>2000 deratin Natural Convection LED, WLAN + APP CAN RS485 WiFi / WiFi + LAN / 4 19.5
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<sup>\*1:</sup> The actual charge and discharge current/power also depends on the battery.
\*2: 4600 for VDE-AR-N4105 & NRS 097-2-1.
\*: Please visit GoodWe website for the latest certificates.