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# Power Whenever You Need

Residential Energy Storage Solutions

# On & Off-grid Energy Storage Solutions (Newly Installed Systems)

## Summary

As a product intended for the new installation of PV storage generators, EM/ES series are aimed for boosting self-consumption in areas with high electrical rate and a relatively low FIT. For areas and regions where peak shaving can be applied and feed-in-power is restricted, this system would be a good fit.

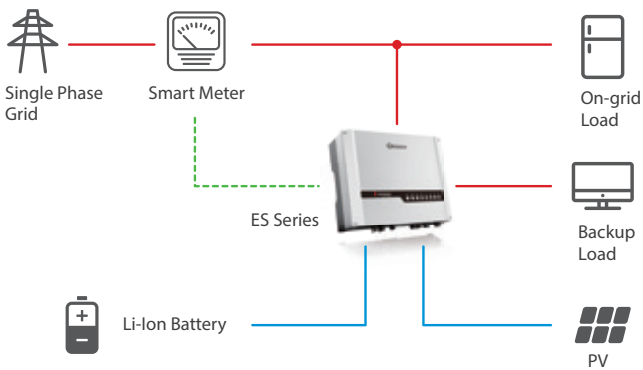
## Functional Introduction

- **Increasing Self-Consumption:** During the day, the electricity from the PV array is used to optimize self-consumption. The excess is used to recharge the batteries and can be released to the loads at night. The highest proportion of self use is up to 95%.
- **Peak Shaving:** By setting the charging and discharging time, the battery can be charged using the lower electrical rate and discharged to loads when there is a high electrical rate.
- **Power Supply for Important Loads:** Connected to the backup side of the inverter, loads such as refrigerators, routers, lamps, computers and other small appliances can be powered. When grid fails the system automatically switches to back-up mode within milliseconds.

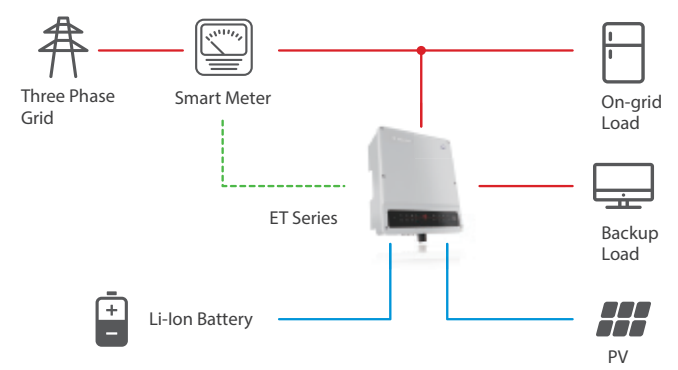
## System Topology Illustration

AC cable DC cable COM cable

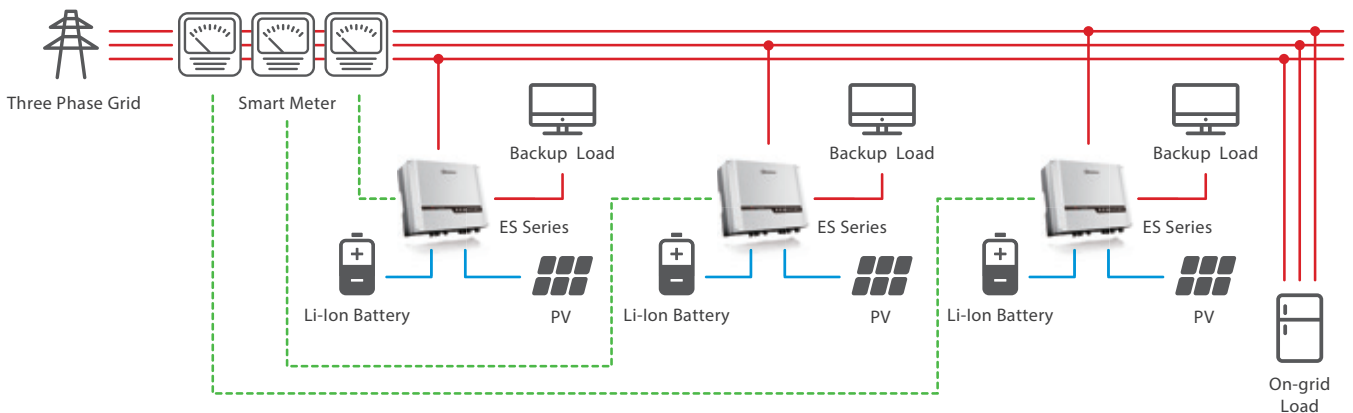
### 01 Basic Application



### 02 Basic Application Three Phase



### 03 Three-phase Application Proposal



# Energy Storage Solutions

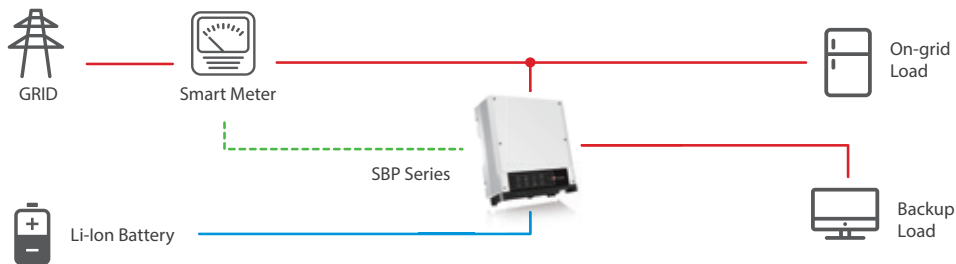
## Summary

SBP product series is geared up for areas where there is considerable price gap between peaking and valley period or a limitation in power supply with no allowance for the installation of PV panels.

## Functional Introduction

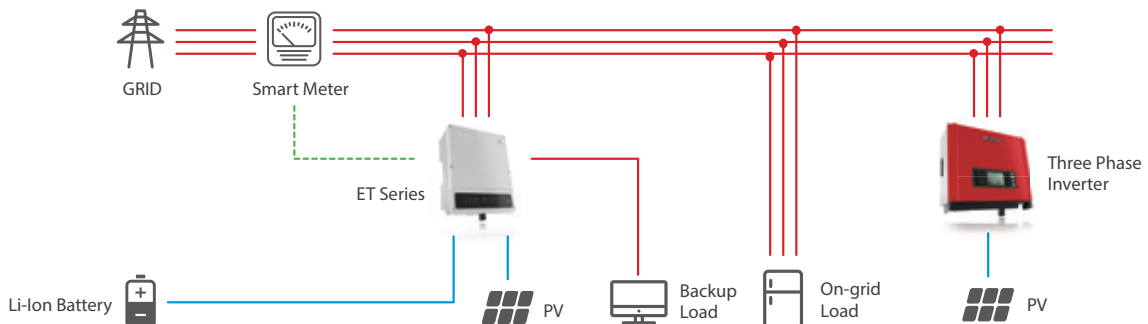
- Peak Shaving: Economic Mode allows you to set the time period on a flexible basis.
- Power Supply for Important Loads: Connected to the backup side of the inverter, loads such as refrigerators, routers, lamps, computers and other small appliances can be powered. When grid fails the system automatically switches to back-up mode within milliseconds.

## System Topology Illustration



## Extending Storage System Capacity by More Grid-Tied Inverters

Three Phase



ET hybrid system capacity could be extended by connecting with a 3-phase grid-tie solar system, especially for big battery capacity. The ET Series reduce the power loss from PV side by using exclusively the energy from the 3-phase grid-tied solar system (anti-reverse system). Power from grid-tied system may support the loads together with ET hybrid system, while battery charging, before it could feed into grid.

# On-grid Retrofitting Storage Solutions Utilizing DC-coupling Approach

## Summary

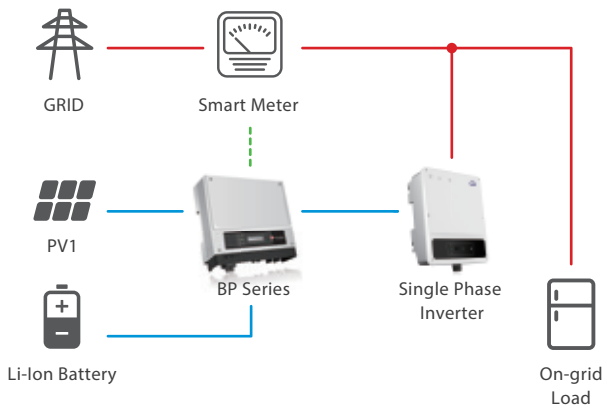
BP series, a product that aims for situations where there is a high electrical bill and a low FIT, is designed for upgrading to DC-coupled storage system based on the existing PV on-grid inverter, helping to reduce your bill by boosting self-consumption.

## Functional Introduction

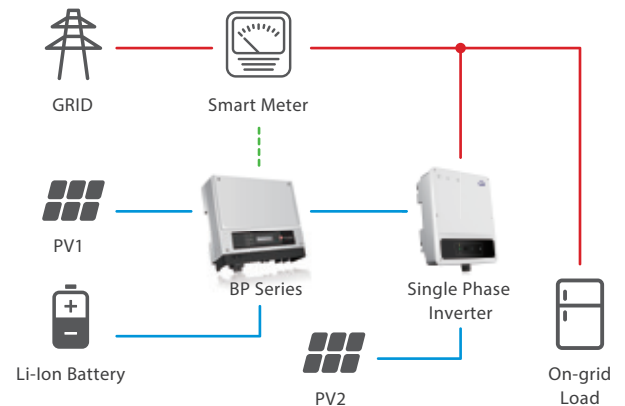
- Boosting Self-Consumption: With the electrical meter in place, it can automatically achieve self-consumption and offer better return on investment.

## System Topology Map

### 01 System Upgrading Design for Single Phase & Single MPPT Inverters



### 02 System Upgrading Design for Single Phase & Dual MPPT Inverters



## On-grid Retrofitting Storage Solutions Utilizing AC-coupling Approach

### Summary

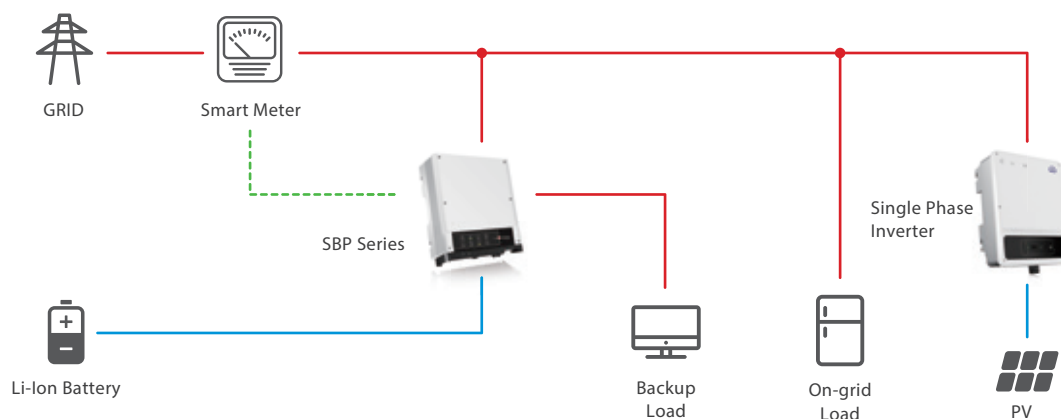
As a product intended for the retrofit of PV storage generators, SBP series is aimed for boosting self-consumption in areas with high electrical rate and a relatively low FIT as well as the availability of peak shaving. Compared with hybrid energy storage inverters, SBP is more cost-effective.

### Functional Introduction

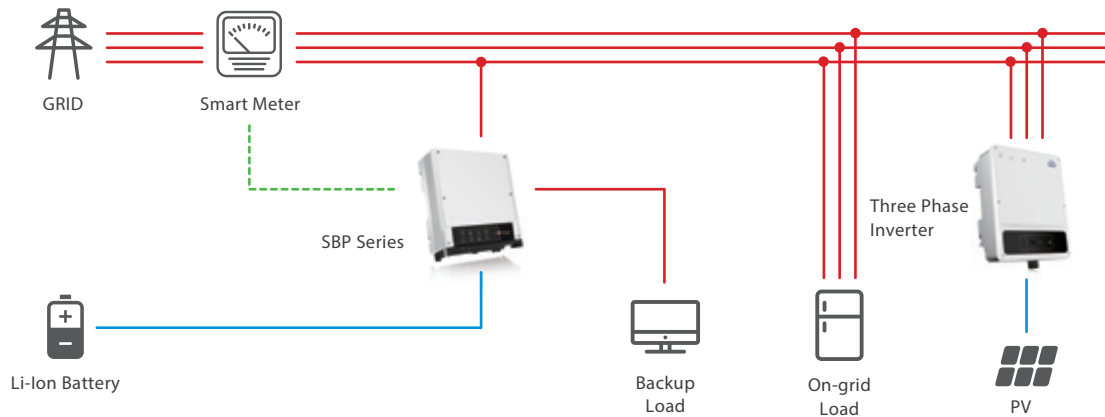
- **Increasing Self-Consumption:** During the day, the electricity from the PV array is used to optimize self-consumption. The excess is used to recharge the batteries and can be released to the loads at night. The highest proportion of self use is up to 95%.
- **Peak Shaving:** By setting the charging and discharging time, the battery can be charged using the lower electrical rate and discharged to loads when there is a high electrical rate.
- **Power Supply for Important Loads:** Connected to the backup side of the inverter, loads such as refrigerators, routers, lamps, computers and other small appliances can be powered. When grid fails the system automatically switches to back-up mode within milliseconds.

## System Topology Map

### 01 System solutions integrating one single phase inverter



## 02 System solutions for a single three phase inverter



## Off-grid System Solutions

### Summary

ES series is fit for areas like remote villages, powerless areas, ocean islands, and off-grid applications, ensuring household power demand needs are met.

### Functional Introduction

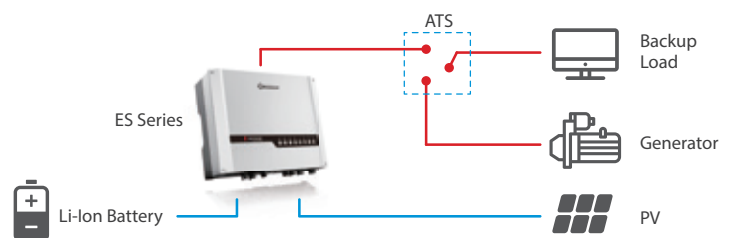
- Meeting power supply demand: the energy output from the PV side will be supplied to the load as a priority before the surplus energy flowed to the battery for charging, which shall be discharged for powering the load when there is no sufficient electrical supply from the PV side.

### System Topology Map

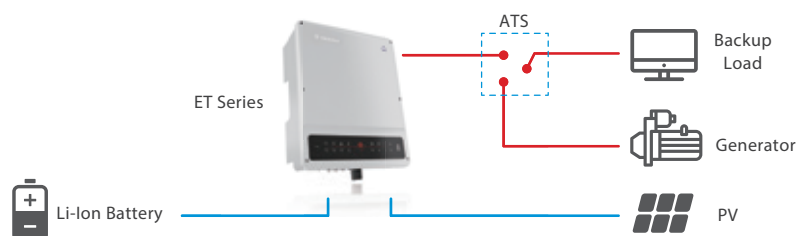
#### 01 No Generator Application Proposal



#### 02 Application Proposal with Generator included



#### 03 Application Proposal with Generator included (Three Phase)



In case of insufficient battery & PV supply without public grid, a generator could be adopted automatically or manually switch supply from hybrid back-up side to supply from generator

# ES Series

## Hybrid Inverter



Technical Data		GW3648D-ES	GW5048D-ES
<b>Battery Input Data</b>	Battery Type	Li-Ion or Lead-acid*1	
	Nominal Battery Voltage (V)	48	
	Max. Charging Voltage (V)	≤60 (Configurable)	
	Max. Charging Current (A)*1	75	100
	Max. Discharging Current (A)*1	75	100
	Battery Capacity (Ah)*2	50~2000	
	Charging Strategy for Li-Ion Battery	Self-adaption to BMS	
<b>PV String Input Data</b>	Max. DC Input Power (W)	4600	6500
	Max. DC Input Voltage (V)*3	580	
	MPPT Range (V)	125~550	
	Start-up Voltage (V)*4	150	
	MPPT Range for Full Load (V)	170~500	
	Nominal DC Input Voltage (V)	360	
	Max. Input Current (A)	11/11	
	Max. Short Current (A)	13.8/13.8	
	No. of MPP Trackers	2	
	No. of Strings per MPP Tracker	1	
<b>AC Output Data (On-grid)</b>	Nominal Apparent Power Output to Utility Grid (VA)	3680	4600
	Max. Apparent Power Output to Utility Grid (VA)	3680*5	5100*5
	Max. Apparent Power from Utility Grid (VA)	7360	9200
	Nominal Output Voltage (V)	230	
	Nominal Output Frequency (Hz)	50/60	
	Max. AC Current Output to Utility Grid (A)	16	24.5*6
	Max. AC Current From Utility Grid (A)	32	40
	Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)	
	Output THDi (@Nominal Output)	<3%	
<b>AC Output Data (Back-up)</b>	Max. Output Apparent Power (VA)	3680	4600
	Peak Output Apparent Power (VA)*7	5520,10sec	6900,10sec
	Automatic Switch Time (ms)	10	
	Max. Output Current (A)	16	20
	Nominal Output Voltage (V)	230 (±2%)	
	Nominal Output Frequency (Hz)	50/60 (±0.2%)	
	Output THDv (@Linear Load)	<3%	
<b>Efficiency</b>	Max. Efficiency	97.6%	
	Max. Battery to Load Efficiency	94.0%	
	Euro Efficiency	97.0%	
<b>Protection</b>	Anti-islanding Protection	Integrated	
	PV String Input Reverse Polarity Protection	Integrated	
	Insulation Resistor Detection	Integrated	
	Residual Current Monitoring Unit	Integrated	
	Output Over Current Protection	Integrated	
	Output Short Protection	Integrated	
	Output Over Voltage Protection	Integrated	
<b>General Data</b>	Operating Temperature Range (°C)	-25~60	
	Relative Humidity	0~95%	
	Operating Altitude (m)	≤4000	
	Cooling	Natural Convection	
	Noise (dB)	<25	
	User Interface	LED & APP	
	Communication with BMS*8	RS485; CAN	
	Communication with Meter	RS485	
	Communication with Portal	Wi-Fi	
	Weight (kg)	28	30
	Size (Width*Height*Depth mm)	516*440*184	
	Mounting	Wall Bracket	
	Protection Degree	IP65	
	Standby Self Consumption (W)	<13	
Topology	High Frequency Isolation		
<b>Certifications &amp; Standards</b>	Grid Regulation	VDE-AR-N 4105, VDE0126-1-1, AS4777.2, G83/2, CEI 0-21, NRS 097-2-1, EN50438	
	Safety Regulation	IEC/EN62109-1&-2, IEC62040-1	
	EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29	

\*1: Lead-acid battery use refers to Approved Battery Options Statement .  
The actual charge and discharge current also depends on the battery.

\*2: Under off-grid mode, then battery capacity should be more than 100Ah.

\*3: Maximum operating dc voltage is 530V.

\*4: When there is no battery connected, inverter starts feeding in only if string voltage is higher than 200V.

\*5: 4600 for VDE 0126-1-1 & VDE-AR-N4105, 4950 for AS4777.2(GW5048D-ES); 4050 for CEI 0-21 (GW3648D-ES).

\*6: 21.7A for AS4777.2.

\*7: Can be reached only if PV and battery power is enough.

\*8: The standard configuration is CAN.

# EM Series

## Hybrid Inverter



Technical Data		GW3048-EM	GW3648-EM	GW5048-EM
<b>Battery Input Data</b>	Battery Type	Li-Ion or Lead-acid*1		
	Nominal Battery Voltage (V)	48		
	Max. Charging Voltage (V)	≤60 (Configurable)		
	Max. Charging Current (A)*1	50		
	Max. Discharging Current (A)*1	50		
	Battery Capacity (Ah)*2	50~2000		
Charging Strategy for Li-Ion Battery		Self-adaption to BMS		
<b>PV String Input Data</b>	Max. DC Input Power (W)	3900	4600	6500
	Max. DC Input Voltage (V)*3	550		
	MPPT Range (V)	100~500		
	Start-up Voltage (V)*4	150		
	MPPT Range for Full Load (V)	280~500	170~500	230~500
	Nominal DC Input Voltage (V)	360		
	Max. Input Current (A)	11	11/11	11/11
	Max. Short Current (A)	13.8	13.8/13.8	13.8/13.8
	No. of MPP Trackers	1	2	2
	No. of Strings per MPP Tracker	1		
	<b>AC Output Data (On-grid)</b>	Nominal Apparent Power Output to Utility Grid (VA)	3000	3680
Max. Apparent Power Output to Utility Grid (VA)		3000*6	3680*6	5000*6
Max. Apparent Power from Utility Grid (VA)		5300		
Nominal Output Voltage (V)		230		
Nominal Output Frequency (Hz)		50/60		
Max. AC Current Output to Utility Grid (A)		13.6	16	22.8*7
Max. AC Current From Utility Grid (A)		23.6		
Output Power Factor		~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Output THDi (@Nominal Output)		<3%		
<b>AC Output Data (Back-up)</b>		Max. Output Apparent Power (VA)	2300	
	Peak Output Apparent Power (VA)*8	3500,10sec		
	Automatic Switch Time (ms)	10		
	Max. Output Current (A)	10		
	Nominal Output Voltage (V)	230 (±2%)		
	Nominal Output Frequency (Hz)	50/60 (±0.2%)		
	Output THDv (@Linear Load)	<3%		
<b>Efficiency</b>	Max. Efficiency	97.6%		
	Max. Battery to Load Efficiency	94.5%		
	Euro Efficiency	97.0%		
<b>Protection</b>	Anti-islanding Protection	Integrated		
	PV String Input Reverse Polarity Protection	Integrated		
	Insulation Resistor Detection	Integrated		
	Residual Current Monitoring Unit	Integrated		
	Output Over Current Protection	Integrated		
	Output Short Protection	Integrated		
	Output Over Voltage Protection	Integrated		
<b>General Data</b>	Operating Temperature Range (°C)	-25~60		
	Relative Humidity	0~95%		
	Operating Altitude (m)	≤4000		
	Cooling	Natural Convection		
	Noise (dB)	<25		
	User Interface	LED & APP		
	Communication with BMS*9	RS485; CAN		
	Communication with Meter	RS485		
	Communication with Portal	Wi-Fi		
	Weight (kg)	16	17	17
	Size (Width*Height*Depth mm)	347*432*175		
	Mounting	Wall Bracket		
	Protection Degree	IP65		
	Standby Self Consumption (W)	<13		
Topology	High Frequency Isolation			
<b>Certifications &amp; Standards</b>	Grid Regulation	AS/NZS 4777.2:2015, G83/2, G100, CEI 0-21, VDE4105-AR-N, VDE0126-1-1, NRS 097-2-1, RD1699, UNE206006, EN50438		
	Safety Regulation	IEC/EN62109-1&-2, IEC62040-1		
	EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29		

\*1: Lead-acid battery use refers to Approved Battery Options Statement .  
The actual charge and discharge current also depends on the battery.

\*2: Under off-grid mode, then battery capacity should be more than 100Ah.

\*3: Maximum operating dc voltage is 530V.

\*4: When there is no battery connected, inverter starts feeding in only if string voltage is higher than 200V.

\*5: 4600 for VDE0126-1-1&VDE-AR-N4105 & CEI 0-21(GW5048-EM).

\*6: For CEI 0-21 GW3048-EM is 3300, GW3648-EM is 4050, GW5048-EM is 5100; for VDE-AR-N4105 GW5048-EM is 4600.

\*7: 21.7A for AS4777.2.

\*8: Can be reached only if PV and battery power is enough.

\*9: The standard configuration is CAN.

# SBP Series (AC-Coupled)

## Retrofit Solution



Technical Data		GW3600S-BP	GW5000S-BP
<b>Battery Input Data</b>	Battery Type	Li-Ion or Lead-acid* <sup>1</sup>	
	Nominal Battery Voltage (V)	48	
	Max. Charging Voltage (V)	≤60 (Configurable)	
	Max. Charging Current (A)* <sup>2</sup>	75	100
	Max. Discharging Current (A)* <sup>2</sup>	75	100
	Battery Capacity (Ah)	50~2000* <sup>3</sup>	
	Charging Strategy for Li-Ion Battery	Self-adaption to BMS	
<b>AC Output Data (On-grid)</b>	Nominal Power Output (W)	3680	5000* <sup>4</sup>
	Max. Apparent Power Output (VA)* <sup>5</sup>	3680	5000
	Max. Apparent Power from Utility Grid (VA)	7360	9200
	Nominal Output Voltage (V)	230	
	Nominal Output Frequency (Hz)	50/60	
	Max. AC Current Output (A)	16	22.8* <sup>6</sup>
	Max. AC Current From Utility Grid (A)	32	40
	Output Power Factor	~1(Adjustable from 0.8 leading to 0.8 lagging)	
<b>AC Output Data (Back-up)</b>	Output THDi (@Nominal Output)	<3%	
	Max. Output Apparent Power (VA)* <sup>7</sup>	3680	5000
	Peak Output Apparent Power (VA)* <sup>7</sup>	4416, 10sec	5500, 10sec
	Automatic Switch Time (ms)	<10	
	Nominal Output Voltage (V)	230 (±2%)	
	Nominal Output Frequency (Hz)	50/60 (±0.2%)	
	Max. Output Current (A)	16	22.8
<b>PV String Input Data</b>	Output THDv (@Linear Load)	<3%	
	Max. DC Input Power (W)	—	
	Max. DC Input Voltage (V)	—	
	Operating Voltage Range (V)* <sup>8</sup>	—	
	Start-up Voltage (V)	—	
	Max. Input Current (A)	—	
<b>DC Output Data</b>	No. of PV String Input Connectors	—	
	Output Voltage during Daytime	—	
	Rated Output Voltage at Night (V)	—	
	Output Voltage Range (V)	—	
	Max. Output Current (A)	—	
<b>Efficiency</b>	No. of DC Output Connectors	—	
	Max. Efficiency	95.5%	
<b>Protection</b>	Anti-islanding Protection	Integrated	
	Output Over Current Protection	Integrated	
	Output Short Protection	Integrated	
	Output Over Voltage Protection	Integrated	
<b>General Data</b>	Operating Temperature Range (°C)	-25~60	
	Relative Humidity	0~95%	
	Operating Altitude (m)	≤4000	
	Cooling	Nature Convection	
	Noise (dB)	<25	
	User Interface	LED & APP	
	Communication with BMS* <sup>9</sup>	RS485; CAN	
	Communication with Meter	RS485	
	Communication with Portal	Wi-Fi	
	Weight (kg)	18.5	
	Size (Width*Height*Depth mm)	347*432*190	
	Mounting	Wall Bracket	
	Protection Degree	IP65	
	Standby Self Consumption (W)	<15	
	<b>Certifications &amp; Standards</b>	Topology	High Frequency Isolation
Grid Regulation		AS/NZS 4777.2:2015, G83/2, G100, CEI 0-21; RD1699; UNE206006; VDE4105-AR-N; VDE0126-1-1; EN50438	
Safety Regulation		IEC62477-1, IEC62040-1	
	EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29	

\*<sup>1</sup>: Lead-acid battery use refers to Approved Battery Options Statement .

The actual charge and discharge current also depends on the battery.  
\*<sup>2</sup>: Charge & discharge current follows the command of BMS which doesn't exceed 50A. Note: Pylon US2000A default charge rate is 0.5C.

C means the battery capacity, such as the capacity is 50Ah, default charge current 0.5C is 0.5 \* 50 = 25A

\*<sup>3</sup>: Battery capacity could be not less than 100Ah where the back-up function is to be applied.

\*<sup>4</sup>: 4600 for VDE0126-1-1&VDE-AR-N 4105 and CEI 0-21.

\*<sup>5</sup>: For CEI 0-21 GW3600S-BP is 4050, GW5000S-BP is 5100; for VDE-AR-N4105 GW5000S-BP is 4600.  
\*<sup>6</sup>: 21.7A for AS4777.2.

\*<sup>7</sup>: Can be reached only if battery capacity is enough, otherwise will shut down.

\*<sup>8</sup>: PV voltage should be lower than 9\* V\_Battery - 20V (V\_Battery means real-time voltage of battery) to allow battery charge or discharge.

\*<sup>9</sup>: The standard configuration is CAN.



# BP Series (DC-Coupled)

## Retrofit Solution



Technical Data		GW2500-BP
<b>Battery Input Data</b>	Battery Type	Li-Ion
	Nominal Battery Voltage (V)	48
	Max. Charging Voltage (V)	≤60 (Configurable)
	Max. Charging Current (A)*1	50
	Max. Discharging Current (A)*1	50
	Battery Capacity (Ah)	50~1000
	Charging Strategy for Li-Ion Battery	Self-adaption to BMS
<b>AC Output Data (On-grid)</b>	Nominal Power Output (W)	—
	Max. Apparent Power Output (VA) <sup>2</sup>	—
	Max. Apparent Power from Utility Grid (VA)	—
	Nominal Output Voltage (V)	—
	Nominal Output Frequency (Hz)	—
	Max. AC Current Output (A)	—
	Max. AC Current From Utility Grid (A)	—
	Output Power Factor	—
<b>AC Output Data (Back-up)</b>	Output THDi (@Nominal Output)	—
	Max. Output Apparent Power (VA) <sup>3</sup>	—
	Peak Output Apparent Power (VA) <sup>3</sup>	—
	Automatic Switch Time (ms)	—
	Nominal Output Voltage (V)	—
	Nominal Output Frequency (Hz)	—
	Max. Output Current (A)	—
<b>PV String Input Data</b>	Output THDv (@Linear Load)	—
	Max. DC Input Power (W)	6000
	Max. DC Input Voltage (V)	500
	Operating Voltage Range (V) <sup>4</sup>	150~450
	Start-up Voltage (V)	120
	Max. Input Current (A)	25
<b>DC Output Data</b>	No. of PV String Input Connectors	1
	Output Voltage during Daytime	Follow the MPP Tracker of Inverter
	Rated Output Voltage at Night (V)	360
	Output Voltage Range (V)	250~360
	Max. Output Current (A)	10
<b>Efficiency</b>	No. of DC Output Connectors	1
	Max. Efficiency	96.5%
<b>Protection</b>	Anti-islanding Protection	—
	Output Over Current Protection	—
	Output Short Protection	—
	Output Over Voltage Protection	—
<b>General Data</b>	Operating Temperature Range (°C)	-25~60
	Relative Humidity	0~95%
	Operating Altitude (m)	≤4000
	Cooling	Natural Convection
	Noise (dB)	<25
	User Interface	LED & APP
	Communication with BMS <sup>5</sup>	RS485; CAN
	Communication with Meter	RS485
	Communication with Portal	Wi-Fi
	Weight (kg)	8
	Size (Width*Height*Depth mm)	344*274.5*128
	Mounting	Wall Bracket
	Protection Degree	IP65
	Standby Self Consumption (W)	<8
Topology	High Frequency Isolation	
<b>Certifications &amp; Standards</b>	Grid Regulation	—
	Safety Regulation	CE
	EMC	CE

\*1: Charge & discharge current follows the command of BMS which doesn't exceed 50A. Note: Pylon US2000A default charge rate is 0.5C.  
C means the battery capacity, such as the capacity is 50Ah, default charge current 0.5C is 0.5 \* 50 = 25A

\*2: For CEI 0-21 GW3600S-BP is 4050, GW5000S-BP is 5100; for VDE-AR-N4105 GW5000S-BP is 4600.

\*3: Can be reached only if battery capacity is enough, otherwise will shut down.

\*4: PV voltage should be lower than 9\*V<sub>Battery</sub> - 20V (V<sub>Battery</sub> means real-time voltage of battery) to allow battery charge or discharge.

\*5: The standard configuration is CAN.

# ET Series

## Three Phase Energy Storage Inverter



Technical Data		GW5k-ET	GW8k-ET	GW10k-ET
<b>Battery Input Data</b>	Battery Type	Li-Ion		
	Battery Voltage Range (V)	180~600		
	Max. Charging Current (A)	25		
	Max. Discharging Current (A)	25		
	Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
<b>PV String Input Data</b>	Max. DC Input Power (W)	6500	9600	9600
	Max. DC Input Voltage (V)*	1000		
	MPPT Range (V)	200~850		
	Start-up Voltage (V)	180		
	MPPT Range for Full Load (V)	240~850	380~850	380~850
	Nominal DC Input Voltage (V)	620		
	Max. Input Current (A)	12.5/12.5		
	Max. Short Current (A)	15.2/15.2		
	No. of MPP Trackers	2		
	No. of Strings per MPP Tracker	1/1		
<b>AC Output Data (On-grid)</b>	Nominal Apparent Power Output to Utility Grid (VA)	5000	8000	10000
	Max. Apparent Power Output to Utility Grid (VA)**	5500	8800	11000
	Max. Apparent Power from Utility Grid (VA)	10000	15000	15000
	Nominal Output Voltage (V)	400/380, 3L/N/PE		
	Nominal Output Frequency (Hz)	50/60		
	Max. AC Current Output to Utility Grid (A)	8.5	13.5	16.5
	Max. AC Current From Utility Grid (A)	15.2	22.7	22.7
	Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
	Output THDi (@Nominal Output)	<3%		
	<b>AC Output Data (Back-up)</b>	Max. Output Apparent Power (VA)	5000	8000
Peak Output Apparent Power (VA)***		10000, 60sec	16000, 60sec	16500, 60sec
Max. Output Current (A)		8.5	13.5	16.5
Nominal Output Voltage (V)		400/380		
Nominal Output Frequency (Hz)		50/60		
Output THDv (@Linear Load)		<3%		
<b>Efficiency</b>	Max. Efficiency	98.0%	98.2%	98.2%
	Max. Battery to Load Efficiency	97.5%		
	Euro Efficiency	97.2%	97.5%	97.5%
<b>Protection</b>	Anti-islanding Protection	Integrated		
	PV String Input Reverse Polarity Protection	Integrated		
	Insulation Resistor Detection	Integrated		
	Residual Current Monitoring Unit	Integrated		
	Output Over Current Protection	Integrated		
	Output Short Protection	Integrated		
	Battery Input Reverse Polarity Protection	Integrated		
	Output Over Voltage Protection	Integrated		
<b>General Data</b>	Operating Temperature Range (°C)	-35~60		
	Relative Humidity	0~95%		
	Operating Altitude (m)	≤4000		
	Cooling	Nature Convection		
	Noise (dB)	<30		
	User Interface	LED & APP		
	Communication with BMS	RS485; CAN		
	Communication with Meter	RS485		
	Communication with EMS	RS485 (Insulated)		
	Communication with Portal	Wi-Fi		
	Weight (kg)	24		
	Size (Width*Height*Depth mm)	516*415*180		
	Mounting	Wall Bracket		
	Protection Degree	IP65		
	Standby Self Consumption (W)****	<15		
Topology	Transformerless			
<b>Standards</b>	Grid Regulation	CEI 0-21; VDE4105-AR-N; VDE0126-1-1; EN50438; G83/2; G100		
	Safety Regulation	IEC62109-1&-2, IEC62040-1		
	EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29		

\*: Maximum operating voltage is 950V.

\*\*: According to local grid regulation.

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

\*\*\*\*: No Back-up output.

## Product Strengths

Save money up to zero cost



Uninterrupted power supply, 10ms reaction

# UPS

Up to 10 years warranty supported by strong bankability



Easy WiFi setup via remote APP settings



Fanless design, long lifespan



Charge battery @ off-peak price



## Project Cases



# GOODWE GOOD CHOICE

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