

**● BLAUPUNKT**

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Solar Inverter  
Series Album

# Single Phase String Inverter

BPS-V01-01.0/02.0/02.5/03.0

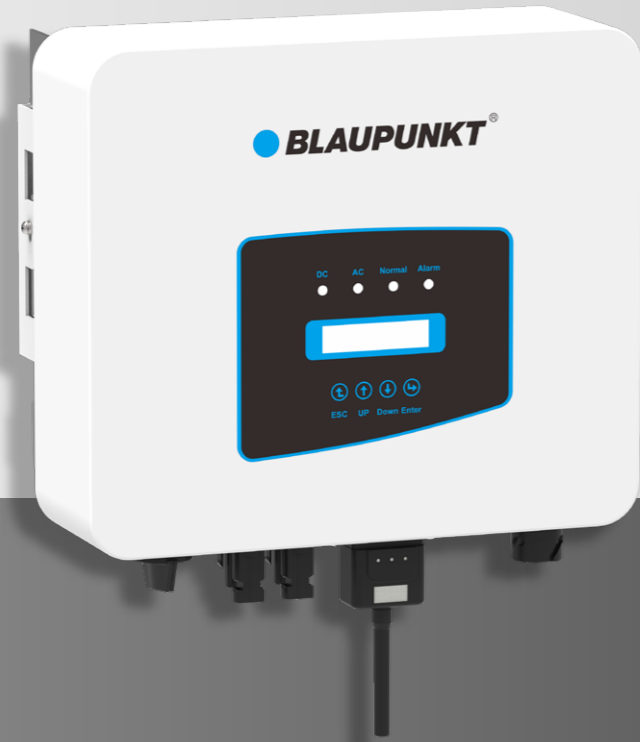


- 1 MPP tracker, Max. efficiency up to 97.5%
- Zero export application, VSG application
- Anti-PID function (Optional)
- String intelligent monitoring (optional)
- Wide output voltage range

Model	BPS-V01-01.0	BPS-V01-02.0	BPS-V01-02.5	BPS-V01-03.0
<b>Input Side</b>				
Max. DC Input Power (kW)	1.4	2.8	3	4.2
Max. DC Input Voltage (V)	550			
Start-up DC Input Voltage (V)	80			
MPPT Operating Range (V)	50~550			70~550
Max. DC Input Current (A)	12.5			
Max. Short Circuit Input Current (A)	20			
Number of MPPT / Strings per MPPT	1/1			
<b>Output Side</b>				
Rated Output Power (kW)	1	2	2.5	3
Max. Active Power (kW)	1.1	2.2	2.75	3.3
Rated AC Grid Voltage (V)	230(L/N/PE)			
AC Grid Voltage Range (V)	160 ~300 (this may vary with grid standards)			
Rated Grid Frequency (Hz)	50			
Operating Phase	Single phase			
Rated AC Grid Output Current (A)	4.3	8.7	11	13.1
Max. AC Output Current (A)	4.8	9.6	12	14
Output Power Factor	>0.99(adjustable+0.8)			
Grid Current THD	<3%			
DC Injection Current (mA)	<0.5%			
Grid Frequency Range	47~52 or 57~62 (Optional)			
<b>Efficiency</b>				
Max. Efficiency	97.3%	97.3%	97.3%	97.5%
Euro Efficiency	97.1%	97.1%	97.1%	97.3%
MPPT Efficiency	>99%			
<b>Protection</b>				
DC Reverse-Polarity Protection	Yes			
AC Short Circuit Protection	Yes			
AC Output Overcurrent Protection	Yes			
Output Overvoltage Protection	Yes			
Insulation Resistance Protection	Yes			
Ground Fault Monitoring	Yes			
Anti-islanding Protection	Yes			
Temperature Protection	Yes			
Integrated DC Switch	Yes			
Remote software upload	Yes			
Remote change of operating parameters	Yes			
Surge protection	DC Type II / AC Type II			
<b>General Data</b>				
Size (mm)	280x272.5x184			
Weight (kg)	4.8			
Topology	Transformerless			
Internal Consumption	<1W (Night)			
Running Temperature	-25~65°C			
Ingress Protection	IP65			
Noise Emission (Typical)	<25 dB			
Cooling Concept	Natural cooling			
Max. Operating Altitude Without Derating	2000m			
Designed Lifetime	>20 years			
Grid Connection Standard	EN50549-1,VDE 0126-1-1			
Operating Surroundings Humidity	0-100%			
Safety EMC / Standard	EN62109-1/-2, EN61000-6-1, EN61000-6-3,EN61000-3-2, EN61000-3-3			
<b>Features</b>				
DC Connection	MC-4 mateable			
AC Connection	IP65 rated plug			
Display	LCD1602			
Interface	RS485/RS232/Wifi/LAN			

# Single Phase String Inverter

BPS-V01-03.6/04.0/05.0/06.0

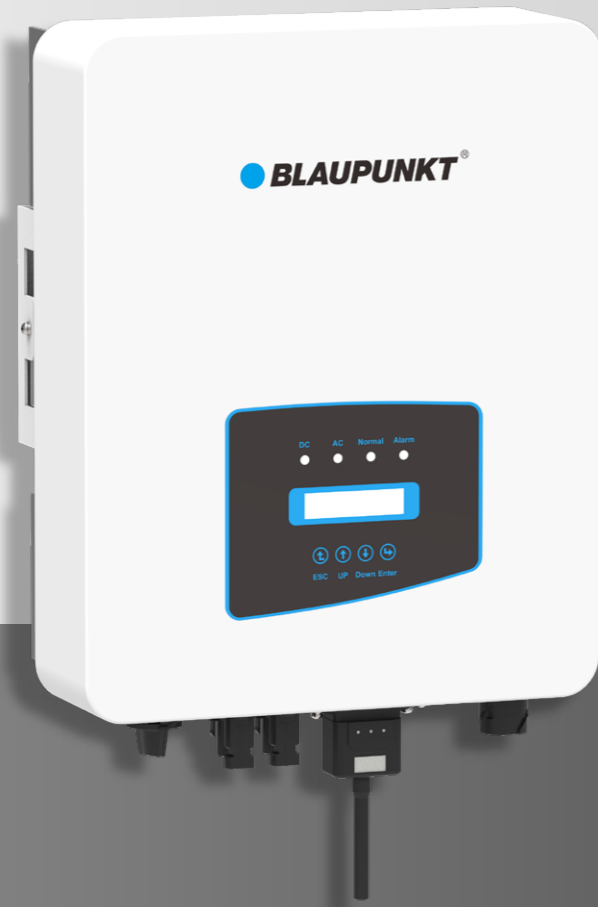


- 2 MPP trackers, Max. efficiency up to 97.5%
- Zero export application, VSG application
- Anti-PID function (Optional)
- String intelligent monitoring (optional)
- Wide output voltage range

Model	BPS-V01-03.6	BPS-V01-04.0	BPS-V01-05.0	BPS-V01-06.0
<b>Input Side</b>				
Max. DC Input Power (kW)	4.7	5.2	6.5	6.6
Max. DC Input Voltage (V)	550			
Start-up DC Input Voltage (V)	80			
MPPT Operating Range (V)	70~550			
Max. DC Input Current (A)	12.5+12.5			
Max. Short Circuit Input Current (A)	20+20			
Number of MPPT / Strings per MPPT	2/1			
<b>Output Side</b>				
Rated Output Power (kW)	3.6	4	5	6
Max. Active Power (kW)	3.96	4.4	5.5	6.6
Rated AC Grid Voltage (V)	230(L/N/PE)			
AC Grid Voltage Range (V)	180 ~300 (this may vary with grid standards)			
Rated Grid Frequency (Hz)	50			
Operating Phase	Single phase			
Rated AC Grid Output Current (A)	15.7	17.4	21.7	26.1
Max. AC Output Current (A)	17.4	19.1	23.9	28.7
Output Power Factor	>0.99(adjustable+0.8)			
Grid Current THD	<3%			
DC Injection Current (mA)	<0.5%			
Grid Frequency Range	47~52 or 57~62 (Optional)			
<b>Efficiency</b>				
Max. Efficiency	97.3%	97.5%	97.5%	97.5%
Euro Efficiency	97.1%	97.3%	97.3%	97.3%
MPPT Efficiency	>99%			
<b>Protection</b>				
DC Reverse-Polarity Protection	Yes			
AC Short Circuit Protection	Yes			
AC Output Overcurrent Protection	Yes			
Output Overvoltage Protection	Yes			
Insulation Resistance Protection	Yes			
Ground Fault Monitoring	Yes			
Anti-islanding Protection	Yes			
Temperature Protection	Yes			
Integrated DC Switch	Yes			
Remote software upload	Yes			
Remote change of operating parameters	Yes			
Surge protection	DC Type II / AC Type II			
<b>General Data</b>				
Size (mm)	330x310x172			
Weight (kg)	11			
Topology	Transformerless			
Internal Consumption	<1W (Night)			
Running Temperature	-25~65°C			
Ingress Protection	IP65			
Noise Emission (Typical)	<25 dB			
Cooling Concept	Natural cooling			
Max. Operating Altitude Without Derating	2000m			
Designed Lifetime	>20 years			
Grid Connection Standard	EN50549-1, VDE 0126-1-1			
Operating Surroundings Humidity	0-100%			
Safety EMC / Standard	EN62109-1/-2, EN61000-6-1, EN61000-6-3, EN61000-3-11, EN61000-3-12			
<b>Features</b>				
DC Connection	MC-4 mateable			
AC Connection	IP65 rated plug			
Display	LCD1602			
Interface	RS485/RS232/Wifi/LAN			

# Three Phase String Inverter

BPT-V03-03.0/03.2/04.0/05.0/06.0  
07.0/08.0/09.0/10.0



- 2 MPP trackers, Max. efficiency up to 98.3%
- Zero export application, VSG application
- Anti-PID function (Optional)
- String intelligent monitoring (optional)
- Wide output voltage range

Model	BPT-V03-03.0	BPT-V03-03.2	BPT-V03-04.0	BPT-V03-05.0	BPT-V03-06.0	BPT-V03-07.0	BPT-V03-08.0	BPT-V03-09.0	BPT-V03-10.0
<b>Input Side</b>									
Max. DC Input Power (kW)	4.8	4.8	6	7.8	9	10	10.4	11.7	12
Max. DC Input Voltage (V)	1000								
Start-up DC Input Voltage (V)	140								
MPPT Operating Range (V)	140~1000								
Max. DC Input Current (A)	12.5+12.5								
Number of MPPT / Strings per MPPT	2/1								
<b>Output Side</b>									
Rated Output Power (kW)	3.2	3.2	4	5	6	7	8	9	10
Max. Active Power (kW)	3.5	3.5	4.5	5.9	6.6	7.7	8.8	9.9	11
Rated AC Grid Voltage (V)	220 / 380, 230 / 400								
AC Grid Voltage Range (V)	277 ~ 460 (this may vary with grid standards)								
Rated Grid Frequency (Hz)	50 / 60 (Optional)								
Operating Phase	Three phase								
Rated AC Grid Output Current (A)	4.6	4.6	5.8	7.2	8.7	10.1	11.6	13	14.5
Max. AC Output Current (A)	5.3	5.3	6.7	8.5	10	11.11	12.76	14.3	16
Output Power Factor	0.8 leading to 0.8 lagging								
Grid Current THD	<3%								
DC Injection Current (mA)	<0.5%								
Grid Frequency Range	47~52 or 57~62 (Optional)								
<b>Efficiency</b>									
Max. Efficiency	98.3%								
Euro Efficiency	97.5%								
MPPT Efficiency	>99%								
<b>Protection</b>									
DC Reverse-Polarity Protection	Yes								
AC Short Circuit Protection	Yes								
AC Output Overcurrent Protection	Yes								
Output Overvoltage Protection	Yes								
Insulation Resistance Protection	Yes								
Ground Fault Monitoring	Yes								
Anti-islanding Protection	Yes								
Temperature Protection	Yes								
Integrated DC Switch	Yes								
Remote software upload	Yes								
Remote change of operating parameters	Yes								
Surge protection	DC Type II / AC Type II								
<b>General Data</b>									
Size (mm)	330x430x177								
Weight (kg)	15								
Topology	Transformerless								
Internal Consumption	<1W (Night)								
Running Temperature	-25~65°C								
Ingress Protection	IP65								
Noise Emission (Typical)	<25 dB								
Cooling Concept	Natural cooling								
Max. Operating Altitude Without Derating	2000m								
Designed Lifetime	>20 years								
Grid Connection Standard	EN50549-1, VDE 0126-1-1								
Operating Surroundings Humidity	0-100%								
Safety EMC / Standard	EN61000-3-2, EN61000-3-3, EN62109-1/-2, EN61000-6-1, EN61000-6-3, EN61000-3-11, EN61000-3-12								
<b>Features</b>									
DC Connection	MC-4 mateable								
AC Connection	IP65 rated plug								
Display	LCD1602								
Interface	RS485/RS232/Wifi/LAN								

# Three Phase String Inverter

## BPT-V03-12/15



- 2 MPP trackers, Max. efficiency up to 98.5%
- Zero export application, VSG application
- Anti-PID function (Optional)
- String intelligent monitoring (optional)
- Wide output voltage range

Model	BPT-V03-12	BPT-V03-15
<b>Input Side</b>		
Max. DC Input Power (kW)	15.6	18
Max. DC Input Voltage (V)		1000
Start-up DC Input Voltage (V)		250
MPPT Operating Range (V)		140~1000
Max. DC Input Current (A)		12.5+25
Number of MPPT / Strings per MPPT		2 / 1+2
<b>Output Side</b>		
Rated Output Power (kW)	12	15
Max. Active Power (kW)	13.2	16.5
Rated AC Grid Voltage (V)		230/400(3L/N/PE)
AC Grid Voltage Range (V)		277 ~ 460Vac (this may vary with grid standards)
Rated Grid Frequency (Hz)		50
Operating Phase		Three phase
Rated AC Grid Output Current (A)	17.4	21.8
Max. AC Output Current (A)	19.14	24
Output Power Factor		>0.99(adjustable+/-0.9)
Grid Current THD		<3%
DC Injection Current (mA)		<0.5%
Grid Frequency Range		47~52 or 57~62 (Optional)
<b>Efficiency</b>		
Max. Efficiency		98.5%
Euro Efficiency		97.5%
MPPT Efficiency		>99%
<b>Protection</b>		
DC Reverse-Polarity Protection		Yes
AC Short Circuit Protection		Yes
AC Output Overcurrent Protection		Yes
Output Overvoltage Protection		Yes
Insulation Resistance Protection		Yes
Ground Fault Monitoring		Yes
Anti-islanding Protection		Yes
Temperature Protection		Yes
Integrated DC Switch		Yes
Remote software upload		Yes
Remote change of operating parameters		Yes
Surge protection		DC Type II / AC Type II
<b>General Data</b>		
Size (mm)		330x430x193.5
Weight (kg)		17
Topology		Transformerless
Internal Consumption		<1W (Night)
Running Temperature		-25~65°C
Ingress Protection		IP65
Noise Emission (Typical)		<45 dB
Cooling Concept		Smart cooling
Max. Operating Altitude Without Derating		2000m
Designed Lifetime		>20 years
Grid Connection Standard		EN50549-1, VDE 0126-1-1
Operating Surroundings Humidity		0-100%
Safety EMC / Standard		EN62109-1/-2, EN61000-6-1, EN61000-6-3, EN61000-3-11, EN61000-3-12
<b>Features</b>		
DC Connection		MC-4 mateable
AC Connection		IP65 rated plug
Display		LCD1602
Interface		RS485/RS232/Wifi/LAN

# Three Phase String Inverter

## BPT-V04-18/20/25



- 2 MPP trackers, Max. efficiency up to 98.6%
- Zero export application, VSG application
- Max. DC input current of 16A/string, adpat to 600W solar panel
- String intelligent monitoring (optional)
- Wide output voltage range
- Anti-PID function (Optional)

Model	BPT-V04-18	BPT-V04-20	BPT-V04-25
<b>Input Side</b>			
Max. DC Input Power (kW)	21.6	26	32.5
Max. DC Input Voltage (V)		1000	
Start-up DC Input Voltage (V)		250	
MPPT Operating Range (V)		200~850	
Max. DC Input Current (A)	32+32	32+32	32+32
Number of MPPT / Strings per MPPT	2/2	2/2	2/3
<b>Output Side</b>			
Rated Output Power (kW)	18	20	25
Max. Active Power (kW)	19.8	22	27.5
Rated AC Grid Voltage (V)		220 / 380, 230 / 400	
AC Grid Voltage Range (V)		277Vac~460Vac (this may vary with grid standards)	
Rated Grid Frequency (Hz)		50 / 60 (Optional)	
Operating Phase		Three phase	
Rated AC Grid Output Current (A)	26.1	29	36.2
Max. AC Output Current (A)	28.7	31.9	39.9
Output Power Factor		0.8 leading to 0.8 lagging	
Grid Current THD		<3%	
DC Injection Current (mA)		<0.5%	
Grid Frequency Range		47~52 or 57~62 (Optional)	
<b>Efficiency</b>			
Max. Efficiency		98.5%	
Euro Efficiency		97.5%	
MPPT Efficiency		>99%	
<b>Protection</b>			
DC Reverse-Polarity Protection		Yes	
AC Short Circuit Protection		Yes	
AC Output Overcurrent Protection		Yes	
Output Overvoltage Protection		Yes	
Insulation Resistance Protection		Yes	
Ground Fault Monitoring		Yes	
Anti-islanding Protection		Yes	
Temperature Protection		Yes	
Integrated DC Switch		Yes	
Remote software upload		Yes	
Remote change of operating parameters		Yes	
Surge protection		DC Type II / AC Type II	
<b>General Data</b>			
Size (mm)		330x508x206	
Weight (kg)		20.8	
Topology		Transformerless	
Internal Consumption		<1W (Night)	
Running Temperature		-25~65°C	
Ingress Protection		IP65	
Noise Emission (Typical)		<45 dB	
Cooling Concept		Smart cooling	
Max. Operating Altitude Without Derating		2000m	
Designed Lifetime		>20 years	
Grid Connection Standard		EN50549-1, VDE 0126-1-1	
Operating Surroundings Humidity		0-100%	
Safety EMC / Standard		EN62109-1/-2, EN61000-6-1, EN61000-6-2, N61000-6-3, EN61000-6-4	
<b>Features</b>			
DC Connection		MC-4 mateable	
AC Connection		IP65 rated plug	
Display		LCD 240x160	
Interface		RS485/RS232/Wifi/LAN	

# Three Phase String Inverter

## BPT-V04-33/35



- Max. 3 MPP trackers, Max. efficiency up to 98.7%
- Zero export application, VSG application
- Anti-PID function (Optional)
- String intelligent monitoring (optional)
- Wide output voltage range

Model	BPT-V04-33	BPT-V01-35
<b>Input Side</b>		
Max. DC Input Power (kW)	42.9	45.5
Max. DC Input Voltage (V)	1000	
Start-up DC Input Voltage (V)	250	
MPPT Operating Range (V)	200~850	
Max. DC Input Current (A)	30+30	30+30+30
Number of MPPT / Strings per MPPT	2/3	3/3
<b>Output Side</b>		
Rated Output Power (kW)	33	35
Max. Active Power (kW)	36.3	38.5
Rated AC Grid Voltage (V)	220 / 380, 230 / 400	
AC Grid Voltage Range (V)	277 ~ 460 (this may vary with grid standards)	
Rated Grid Frequency (Hz)	50 / 60 (Optional)	
Operating Phase	Three phase	
Rated AC Grid Output Current (A)	48	50.7
Max. AC Output Current (A)	52.8	55.8
Output Power Factor	>0.99	
Grid Current THD	<3%	
DC Injection Current (mA)	<0.5%	
Grid Frequency Range	47~52 or 57~62 (Optional)	
<b>Efficiency</b>		
Max. Efficiency	98.7%	
Euro Efficiency	98.3%	
MPPT Efficiency	>99%	
<b>Protection</b>		
DC Reverse-Polarity Protection	Yes	
AC Short Circuit Protection	Yes	
AC Output Overcurrent Protection	Yes	
Output Overvoltage Protection	Yes	
Insulation Resistance Protection	Yes	
Ground Fault Monitoring	Yes	
Anti-islanding Protection	Yes	
Temperature Protection	Yes	
Integrated DC Switch	Yes	
Remote software upload	Yes	
Remote change of operating parameters	Yes	
Surge protection	DC Type II / AC Type II	
<b>General Data</b>		
Size (mm)	633Wx532Hx285D	
Weight (kg)	54	
Topology	Transformerless	
Internal Consumption	<1W (Night)	
Running Temperature	-25~65°C	
Ingress Protection	IP65	
Noise Emission (Typical)	<30 dB	
Cooling Concept	Intelligent cooling	
Max. Operating Altitude Without Derating	2000m	
Designed Lifetime	>20 years	
Grid Connection Standard	EN50549-1, VDE 0126-1-1	
Operating Surroundings Humidity	0-100%	
Safety EMC / Standard	IEC62109-1/-2, IEC61000-6-2, IEC61000-6-4, IEC61000-3-11, IEC61000-3-12	
<b>Features</b>		
DC Connection	MC-4 mateable	
AC Connection	IP65 rated plug	
Display	LCD 240 x 160	
Interface	RS485/RS232/Wifi/LAN	

# Three Phase String Inverter

## BPT-V01-40/50



- Max. 4 MPP trackers, Max. efficiency up to 98.7%
- Zero export application, VSG application
- Anti-PID function (Optional)
- String intelligent monitoring (optional)
- Wide output voltage range

Model	BPT-V01-40	BPT-V01-50
<b>Input Side</b>		
Max. DC Input Power (kW)	52	65
Max. DC Input Voltage (V)	1000	
Start-up DC Input Voltage (V)	250	
MPPT Operating Range (V)	200~850	
Max. DC Input Current (A)	40+40+40	40+40+40+40
Number of MPPT / Strings per MPPT	3/3	4/3
<b>Output Side</b>		
Rated Output Power (kW)	40	50
Max. Active Power (kW)	44	55
Rated AC Grid Voltage (V)	220 / 380, 230 / 400	
AC Grid Voltage Range (V)	277 ~ 460 (this may vary with grid standards)	
Rated Grid Frequency (Hz)	50 / 60 (Optional)	
Operating Phase	Three phase	
Rated AC Grid Output Current (A)	58	72.4
Max. AC Output Current (A)	63.8	79.7
Output Power Factor	0.8 leading to 0.8 lagging	
Grid Current THD	<3%	
DC Injection Current (mA)	<0.5%	
Grid Frequency Range	47~52 or 57~62 (Optional)	
<b>Efficiency</b>		
Max. Efficiency	98.7%	
Euro Efficiency	98%	
MPPT Efficiency	>99%	
<b>Protection</b>		
DC Reverse-Polarity Protection	Yes	
AC Short Circuit Protection	Yes	
AC Output Overcurrent Protection	Yes	
Output Overvoltage Protection	Yes	
Insulation Resistance Protection	Yes	
Ground Fault Monitoring	Yes	
Anti-islanding Protection	Yes	
Temperature Protection	Yes	
Integrated DC Switch	Yes	
Remote software upload	Yes	
Remote change of operating parameters	Yes	
Surge protection	DC Type II / AC Type II	
<b>General Data</b>		
Size (mm)	647.5x537x303.5	
Weight (kg)	44.5	
Topology	Transformerless	
Internal Consumption	<1W (Night)	
Running Temperature	-25~65°C	
Ingress Protection	IP65	
Noise Emission (Typical)	<45 dB	
Cooling Concept	Smart cooling	
Max. Operating Altitude Without Derating	2000m	
Designed Lifetime	>20 years	
Grid Connection Standard	EN50549-1, VDE 0126-1-1	
Operating Surroundings Humidity	0-100%	
Safety EMC / Standard	EN62109-1/-2, EN61000-6-2, EN61000-6-4, EN61000-3-11, EN61000-3-12	
<b>Features</b>		
DC Connection	MC-4 mateable	
AC Connection	IP65 rated plug	
Display	LCD1602	
Interface	RS485/RS232/Wifi/LAN	