



# Single-phase On-grid String Inverter

BSI3000TL

BSI5000MTL

B. S. P



## Features

### High Efficiency

- High-efficiency inverter topology ensures annual power generation
- Advanced control algorithms and high adaptation ability to the grid, improving the stability of power generation system

### Safe and Reliable

- IP65 for outdoor application
- Integrated AC/DC full lightning protection
- Aluminum alloy die-casting integrated chassis, ensure 25 years full life circle running

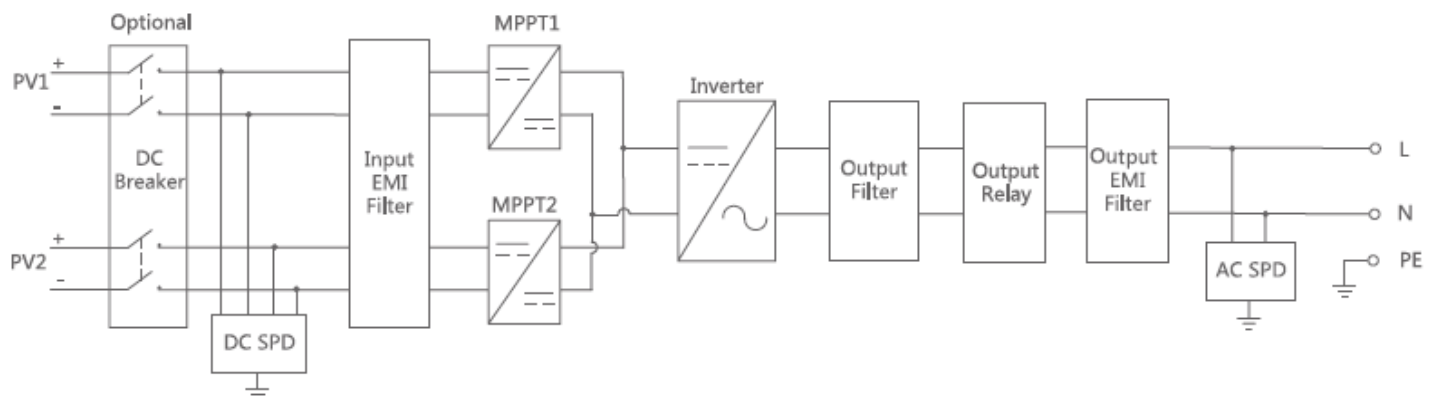
### Intelligent Management

- Intelligent cloud platform monitoring, realizing one-key APP real-time monitoring
- Support RS485, GPRS, WIFI and other communication Methods

### Green Saving

- Small size, easy to install and use
- Natural cooling, ensuring low environmental noise
- Super-wide operating temperature range, adapt to extremely cold, high temperature areas

## Function Diagram



# Single-phase On-grid String Inverter

BSI3000TL

BSI5000MTL

## Technical Specification

Items	BSI3000TL	BSI5000MTL
<b>DC Input</b>		
Max. PV input voltage	600Vdc	
Rated PV voltage	360Vdc	
Max. PV input current	22A (2×11A)	
No. of MPPTs	2	
No. of PV strings per MPPT	1/1	
MPPT voltage range	100Vdc ~500Vdc	
Starting voltage	120Vdc	
<b>AC Output</b>		
Rated AC output power	3.0kW	5.0kW
Max. output power	3.3kW	5.5kW
Rated AC output voltage	220V/230Vac	
Rated output current	13.6A	22.7A
Max. output current	15.0 A	25.0 A
Rated grid frequency	230Vac	
Grid frequency range	45~55Hz/55~65Hz	
Power factor	>0.99 full load	
Adjustable power factor	0.8 (leading) ~ 0.8 (lagging)	
THDi	<3% (nominal power)	
<b>Efficiency</b>		
Max. efficiency	98.10%	98.30%
European efficiency	97.70%	97.90%
<b>Protection</b>		
Anti-islanding	Yes	
DC Reversed Connection	Yes	
AC short circuit protection	Yes	
Temperature protection	Yes	
Surge protection	Yes	
PV fault detect	Yes	
DC switch	optional	
<b>General</b>		
Dimensions (W×H×D)	360×420×125 mm	
Weight	12.6kg	
IP grade	IP65	
Noise level	□25 dB	
Night power consumption	<1W	
Cooling type	Natural cooling	
Altitude	4000m (>2000m derating )	
Operating temperature	-40°C~60°C (>45°C derating)	
Relative humidity	0~95%	
Display	LCD display + LED indicator	
Communication	RS485/WiFi (optional)/GPRS (optional)/DRM(Australia)	
DC terminal	MC4 Terminal	
AC terminal	Plug and play connector	
Installation method	Wall-mounted	
Standard	EN62109-1, EN62109-2 NB/T32004, AS3100, AS4777, EN 61000-6-2, EN 61000-6-3 , IEC 62116:2014, IEC 61727:2004 ,IEC 60068-2-1:2007 ,IEC 60068-2-2:2007 ,IEC 60068-2-14:2009 ,IEC 60068-2-30:2005, MEA, PEA	



# Three-phase On-grid String Inverter

BTI10000MTL

B. S. P



## Features

### Efficiency and Flexible

- 2 independent MPPT, more generation
- Advanced control algorithms and high adaptation ability to the grid, improving the stability of power generation system

### Safe and Reliable

- IP65 for outdoor application
- Integrated AC/DC full lightning protection
- All industrial grade electronic device, ensure 25 years full life circle running

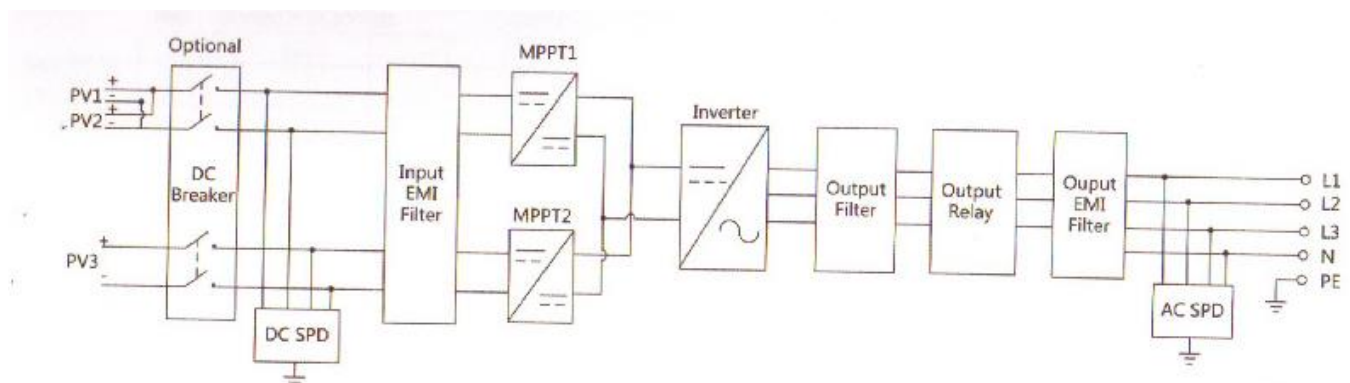
### Intelligent Management

- I&V Intelligent diagnosis, accurate identification and positioning of abnormal PV panels
- Support RS485, WIFI, GPRS communication
- Remote online upgrade, convenient and efficient

### Grid Friendly

- Grid-connected current harmonics <3%, green adapts to grid
- Ultra wide grid voltage range, with LVRT function

## Function Diagram



# Three-phase On-grid String Inverter

**BTI10000MTL**

## Technical Specification

Items	BTI10000MTL
<b>DC Input</b>	
Max. PV input voltage	1000Vdc
Rated PV voltage	600Vdc
Max. PV input current	33A(3x11A)
No. of MPPTs	2
No. of PV strings per MPPT	2/1
MPPT voltage range	200Vdc ~950Vdc
Starting voltage	200Vdc
<b>AC Output</b>	
Rated AC output power	10kW
Max. output power	11kW
Rated AC output voltage	380/400/415Vac
Rated output current	14.5A
Max. output current	15.9A
Rated grid frequency	50Hz/60Hz
Grid frequency range	45~55Hz/55~65Hz
Power factor	>0.99 full load
Adjustable power factor	0.8 (leading) - 0.8 (lagging)
THDi	<3% (rated power)
<b>Efficiency</b>	
Max. efficiency	98.50%
European efficiency	98.00%
<b>Protection</b>	
Anti-islanding	Yes
DC Reversed Connection	Yes
AC short circuit protection	Yes
Temperature protection	Yes
Surge protection	Yes
PV fault detect	Yes
DC switch	optional
<b>General</b>	
Dimensions (W×H×D)	480×420×180 mm
Weight	23kg
IP grade	<30dB
Noise level	IP65
Self-consumption at night	<1W
Cooling type	Natural cooling
Altitude	4000m (>3000m derating )
Operating temperature	-25°C~-60°C
Relative humidity	0~95% (Non-condensation)
Display	LCD + LED
Communication	RS485/WiFi/GPRS/DRM(Australia)
DC terminal	MC4 Terminal
AC terminal	OT Terminal
Installation method	Wall-mounted
Standard	EN62109-1, EN62109-2 NB/T32004, AS3100, AS4777, EN 61000-6-2, EN 61000-6-3 , IEC 62116:2014, IEC 61727:2004 ,IEC 60068-2-1:2007 ,IEC 60068-2-2:2007 ,IEC 60068-2-14:2009 ,IEC 60068-2-30:2005, MEA, PEA

# Three-phase On-grid String Inverter

SPI20K-B



## Features

### Efficient and Flexible

- 2 independent MPPTs, more generation
- Advanced control algorithms and high adaptation ability to the grid, improving the stability of power generation system

### Safe and Reliable

- IP65 for outdoor application
- Integrated AC/DC full lightning protection
- All industrial grade electronic device, ensure 25 years full life circle running

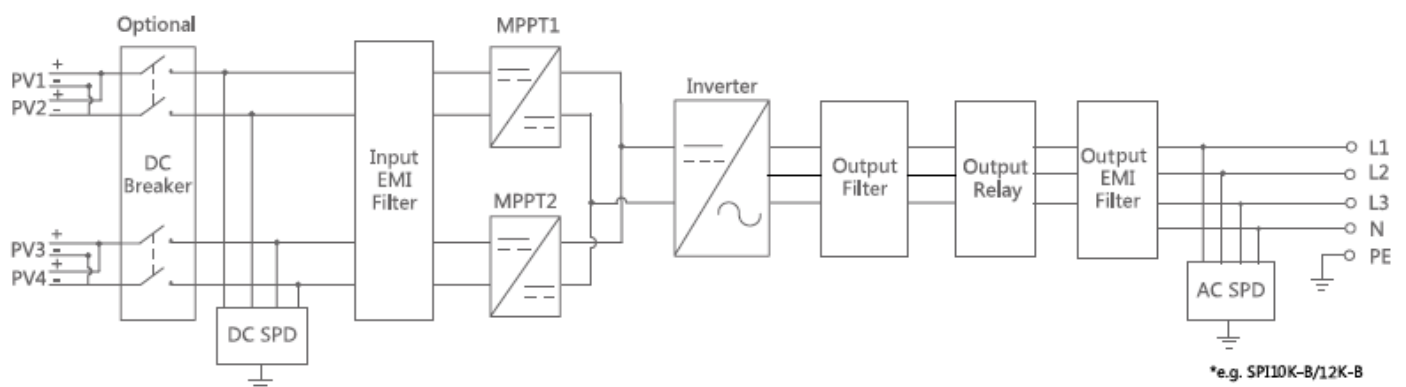
### Intelligent Management

- I&V Intelligent diagnosis, accurate identification and positioning of abnormal PV panels
- Support RS485, Wifi, GPRS communication
- Remote online upgrade, convenient and efficient

### Grid Friendly

- Grid-connected current harmonics <3%, green adapts to grid
- Ultra wide grid voltage range, with LVRT function

## Function Diagram



# Three-phase On-grid String Inverter

## SPI20K-B

### Technical Specification

Items	SPI20K-B
	DC Input
Max. PV input voltage	1000Vdc
Rated PV voltage	600Vdc
Max. PV input current	44A(2×22A)
No. of MPPTs	2
No. of PV strings per MPPT	2/2
MPPT voltage range	200Vdc ~950Vdc
Starting voltage	200Vdc
	AC Output
Rated AC output power	20kW
Max. output power	22kW
Rated AC output voltage	380/400/415Vac
Rated output current	29.0A
Max. output current	31.9A
Rated grid frequency	50Hz/60Hz
Grid frequency range	45~55Hz/55~65Hz
Power factor	>0.99 full load
Adjustable power factor	0.8 (leading) - 0.8 (lagging)
THDi	<3% (rated power)
	Efficiency
Max. efficiency	98.60%
European efficiency	98.30%
	Protection
Anti-islanding	Yes
DC Reversed Connection	Yes
AC short circuit protection	Yes
Temperature protection	Yes
Surge protection	Yes
PV fault detect	Yes
DC switch	optional
	General
Dimensions (W×H×D)	480×420×180 mm
Weight	23kg
IP grade	<30dB
Noise level	IP65
Self-consumption at night	<1W
Cooling type	Natural cooling
Altitude	4000m (>3000m derating )
Operating temperature	-25°C~+60°C
Relative humidity	0~95% (Non-condensation)
Display	LCD + LED
Communication	RS485/WiFi/GPRS/DRM(Australia)
DC terminal	MC4 Terminal
AC terminal	OT Terminal
Installation method	Wall-mounted
Standard	EN62109-1, EN62109-2 NB/T32004, AS3100, AS4777, EN 61000-6-2, EN 61000-6-3, IEC 62116, IEC 61727, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-14, IEC 60068-2-30, MEA, PEA