

Product Specification

KEEP INNOVATING

Auto Over-Load Protection & Fault
Current Interrupting SERIES



The Best DC Components for The Best Result.

ABOUT ZJBENY

Top 1 manufacturer of DC components and combiner boxes in China. With more than 10 years experience in solar DC solutions designing, producing and testing.

We are one of the manufacturers own the DC electrical cycle tester in China, the test equipment is important for keeping the DC switch at high quality level.

The first DC switch listed by UL508i.

The standard DC isolator recommended by Clean Energy Council Australia.

ZJBENY is supplying reliable DC components to top inverter companies and EPCs worldwide.

1000V 1500V solar solutions DC side and AC side is available.

1 INPUT 1 OUTPUT 600VDC / 1000VDC

IP65 DC string box is designed for 1 string PV system.
For surge protection and over-load protection at solar DC side.

DC Breaker

- ☑ UL489B design, IEC60947-2 PV standard
- ☑ Over-load, short circuit Protection
- ☑ Non Polarity for easier wiring

DC SPD

- ☑ New IEC 61643, UL1449
- ☑ Designed for solar PV protection
- ☑ Higher capacity In 20KA (IEC, UL)
- ☑ Response time <25ns



Specification			
Model Number		BHS-1/1	
Input		1 string	
Output		1 string	
Max Voltage	600V		1000V
Rated Current of DC Breaker	15A		15A
Max Current Output	63A		40A
Enclosure			
Material		Polycarbonate/ABS	
Degree of Protection		IP65	
Impacts		IK10	
Dimensions		BX-13: L290*W220*H120mm	
Input Cable Glands		PG09, 2.5-16	
Output Cable Gland		PG21, 2.5-16	
Environment			
Operating temperature		-25°C - +60°C	

2 INPUT 1 OUTPUT

600VDC / 1000VDC

IP65 DC string box is designed for 2 string PV system.
For surge protection and current protection at solar DC side.

DC Breaker

- ☑ UL489B PV standard and design
- ☑ Over-load and short-circuit Protection
- ☑ Non Polarity for easier wiring

DC SPD

- ☑ New IEC 61643, UL1449
- ☑ Designed for solar PV protection
- ☑ Higher capacity In 20KA (IEC, UL)
- ☑ Response time <25ns



Specification			
Model Number		BHS-2/1	
Input		2 strings	
Output		1 string	
Max Voltage	600V		1000V
Rated Current of DC Breaker	25A		25A
Max Current Output	63A		40A
Enclosure			
Material		Polycarbonate/ABS	
Degree of Protection		IP65	
Impacts		IK10	
Dimensions		BX-13: L290*W220*H120mm	
Input Cable Glands		PG09, 2.5-16	
Output Cable Gland		PG21, 2.5-16	
Environment			
Operating temperature		-25°C - +60°C	

2 INPUT 2 OUTPUT 600VDC / 1000VDC

IP65 DC string box is designed for 2 string PV system.
For surge protection and current protection at solar DC side.

DC Breaker

- ☑ UL489B PV standard
- ☑ IEC60947-2
- ☑ Over-load and short circuit Protection
- ☑ Non Polarity

DC SPD

- ☑ New IEC 61643, UL1449
- ☑ Designed for solar PV protection
- ☑ Higher capacity In 20KA (IEC, UL)
- ☑ Response time <25ns



Specification			
Model Number		BHS-2/2	
Input		2 strings	
Output		2 strings	
Max Voltage	600V		1000V
Rated Current of DC Breaker	15A		15A
Max Current Output	63A		40A
Enclosure			
Material		Polycarbonate/ABS	
Degree of Protection		IP65	
Impacts		IK10	
Dimensions		BX-13: L290*W220*H120mm	
Input Cable Glands		PG09, 2.5-16	
Output Cable Gland		PG21, 2.5-16	
Environment			
Operating temperature		-25°C - +60°C	

3 INPUT 1 OUTPUT

600VDC / 1000VDC

IP65 DC string box is designed for 3 string PV system.
For surge protection and current protection at solar DC side.

DC Breaker

- ☑ UL489B PV standard
- ☑ IEC60947-2
- ☑ Over-load and short circuit Protection
- ☑ Non Polarity

DC SPD

- ☑ New IEC 61643, UL1449
- ☑ Designed for solar PV protection
- ☑ Higher capacity In 20KA (IEC, UL)
- ☑ Response time <25ns



Specification	
Model Number	BHS-3/1
Input	3 strings
Output	1 string
Max Voltage	600V 1000V
Rated Current of DC Breaker	40A 40A
Max Current Output	63A 40A
Enclosure	
Material	Polycarbonate/ABS
Degree of Protection	IP65
Impacts	IK10
Dimensions	BX-13: L290*W220*H120mm
Input Cable Glands	PG09, 2.5-16
Output Cable Gland	PG21, 2.5-16
Environment	
Operating temperature	-25°C - +60°C

3 INPUT 3 OUTPUT

600VDC / 1000VDC

IP65 DC string box is designed for 3 string PV system.
For surge protection and current protection at solar DC side.

DC Breaker

- ☑ UL489B PV standard
- ☑ IEC60947-2
- ☑ Over-load and short circuit Protection
- ☑ Non Polarity

DC SPD

- ☑ New IEC 61643, UL1449
- ☑ Designed for solar PV protection
- ☑ Higher capacity In 20KA (IEC, UL)
- ☑ Response time <25ns



Specification			
Model Number	BHS-3/3		
Input	3 strings		
Output	3 strings		
Max Voltage	600V		1000V
Rated Current of DC Breaker	40A		40A
Max Current Output	63A		40A
Enclosure			
Material	Polycarbonate/ABS		
Degree of Protection	IP65		
Impacts	IK10		
Dimensions	L302*W373*H131mm		
Input Cable Glands	PG09, 2.5-16		
Output Cable Gland	PG21, 2.5-16		
Environment			
Operating temperature	-25°C - +60°C		

4 INPUT 2 OUTPUT

600VDC / 1000VDC

IP65 DC string box is designed for 3 string PV system.
For surge protection and current protection at solar DC side.

DC Breaker

- ☑ UL489B PV standard and design, IEC60947-2
- ☑ Over-load and short circuit Protection
- ☑ Non Polarity for easier wiring

DC SPD

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- ☑ Response time <25ns



Specification			
Model Number		BHS-4/2	
Input		4 strings	
Output		2 strings	
Max Voltage	600V		1000V
Rated Current of DC Breaker	25A/25A		25A/25A
Max Current Output	63A/63A		63A/63A
Enclosure			
Material		Polycarbonate/ABS	
Degree of Protection		IP65	
Impacts		IK10	
Dimensions		L302*W373*H131mm	
Input Cable Glands		PG09, 2.5-16	
Output Cable Gland		PG21, 2.5-16	
Environment			
Operating temperature		-25°C - +60°C	

4 INPUT 4 OUTPUT

1000VDC

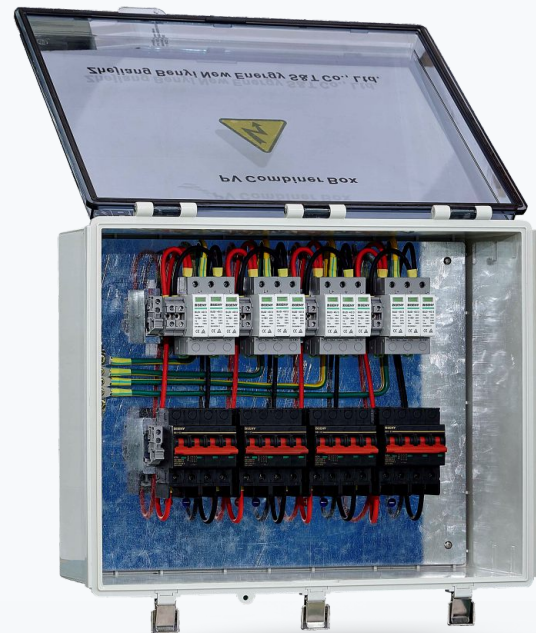
IP65 DC string box is designed for 4 strings PV system.
For surge protection and current protection at solar DC side.

DC Breaker

- UL489B PV standard
- IEC60947-2
- Over-load, short circuit Protection
- Non Polarity for easier wiring

DC SPD

- New IEC 61643, UL1449
- Designed for solar PV protection
- Higher capacity In 20KA (IEC, UL)
- Response time <25ns



Specification	
Model Number	BHS-4/4
Input	4 strings
Output	4 strings
Max Voltage	1000V
Rated Current of DC Breaker	32A/32A/32A/32A
Max Current Output	63A/63A/63A/63A
Enclosure	
Material	Polycarbonate/ABS
Degree of Protection	IP65
Impacts	IK10
Dimensions	L400*W500*H200mm
Input Cable Glands	PG09, 2.5-16
Output Cable Gland	PG21, 2.5-16
Environment	
Operating temperature	-25°C - +60°C

6 INPUT 2 OUTPUT 1000VDC

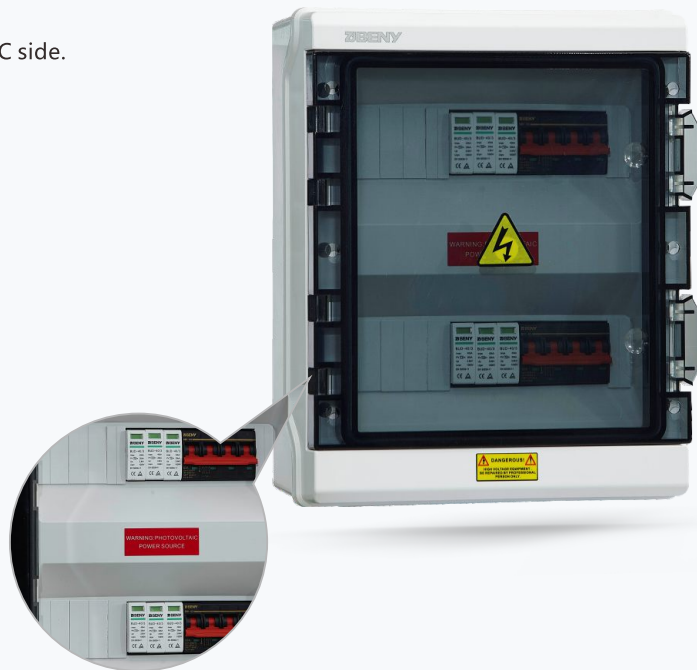
IP65 DC string box is designed for 6 string PV system.
For surge protection and current protection at solar DC side.

DC Breaker

- ☑ UL489B PV standard
- ☑ IEC60947-2
- ☑ Overload, short circuit Protection
- ☑ Non Polarity
- ☑ Anti re-flux protection

DC SPD

- ☑ New IEC 61643, UL1449
- ☑ Designed for solar PV protection
- ☑ Higher capacity In 20KA (IEC, UL)
- ☑ Response time <25ns



Specification	
Model Number	BHS-6/2
Input	6 strings
Output	2 strings
Max Voltage	1000V
Rated Current of DC Breaker	40A/40A
Max Current Output	63A/63A
Enclosure	
Material	Polycarbonate/ABS
Degree of Protection	IP65
Impacts	IK10
Dimensions	L302*W373*H131mm
Input Cable Glands	PG09, 2.5-16
Output Cable Gland	PG21, 2.5-16
Environment	
Operating temperature	-25°C - +60°C

6 INPUT 3 OUTPUT 1000VDC

IP65 DC string box is designed for 6 string PV system.
For surge protection and current protection at solar DC side.

DC Breaker

- ☑ UL489B PV standard
- ☑ IEC60947-2
- ☑ Overload, short circuit Protection
- ☑ Non Polarity
- ☑ Anti re-flux protection

DC SPD

- ☑ New IEC 61643, UL1449
- ☑ Designed for solar PV protection
- ☑ Higher capacity In 20KA (IEC, UL)
- ☑ Response time <25ns



Specification	
Model Number	BHS-6/3
Input	6 strings
Output	3 strings
Max Voltage	1000V
Rated Current of DC Breaker	40A/40A/40A
Max Current Output	40A/40A/40A
Enclosure	
Material	Polycarbonate/ABS
Degree of Protection	IP65
Impacts	IK10
Dimensions	L313*W553*H149mm
Input Cable Glands	PG09, 2.5-16
Output Cable Gland	PG21, 2.5-16
Environment	
Operating temperature	-25°C - +60°C

6 INPUT 6 OUTPUT 1000VDC

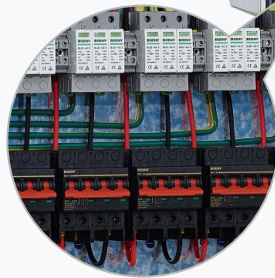
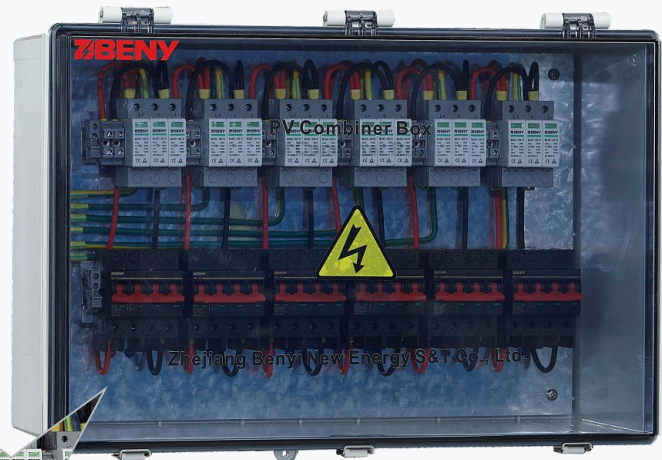
IP65 DC string box is designed for 6 string PV system.
For surge protection and current protection at solar DC side.

DC Breaker

- ☑ UL489B PV standard , IEC60947-2
- ☑ Over-load, short circuit Protection
- ☑ Non Polarity

DC SPD

- ☑ New IEC 61643, UL1449
- ☑ Designed for solar PV protection
- ☑ Higher capacity In 20KA (IEC, UL)
- ☑ Response time <25ns



Specification	
Model Number	BHS-6/6
Input	6 strings
Output	6 strings
Max Voltage	1000V
Rated Current of DC Breaker	32A/32A/32A/32A/32A/32A
Max Current Output	40A/40A/40A/40A/40A/40A
Enclosure	
Material	Polycarbonate/ABS
Degree of Protection	IP65
Impacts	IK10
Dimensions	L400*W600*H230mm
Input Cable Glands	PG09, 2.5-16
Output Cable Gland	PG21, 2.5-16
Environment	
Operating temperature	-25°C - +60°C