



- ◆ 73% market share in AU of DC switch
- ◆ Top 1 DC components manufacturer in China
- ◆ Top 1 Solar String Box manufacturer in China



**ZHEJIANG BENYI ELECTRICAL
CO., LTD**

Address: Wenzhou Bridge Industrial Zone,
Beibaixiang Town, Zhejiang China

TEL: +86-577-5717 7009

FAX: +86-577-5717 7007

Email: zl@zjbeny.com

[Http:// www.zjbeny.com](http://www.zjbeny.com)



Scan it to ZJBENY website!

⚠ If the models and specifications in this product catalogue is changed due to the change of products, we will not inform .

Solar DC String Box



**Leading Manufacturer Provides
Solar Power Safety**



Leading Supplier for Solar String Box and Components



ZBENY

Solar DC String Box 1 String Input 1 String Output DC



General Data	DC Surge Arrester	BUD-40/3
Model No.	BHS-1/1	Max Operation Voltage (Ucpv) 1000V
Input	1 string	Standard Compliance with EN 50539 Type 2
Output	1 string	Maximum Discharge Current 40 KA
Maximum Voltage	1000V	Certification TUV CE
Max DC Short Circuit Current Per Input (Isc)	15A (Changeable)	
Maximum Current Output	32A	
Enclosure	DC fuse holder	BR-30
Material Type	Polycarbonate/ABS	LED Indicator Yes
Degree of Protection	IP65	Rated Working Voltage 1000V
Degree of Resistance to Impacts	IK10	Fuse Link 10x38mm LITTEL 15A
Dimension (WxHxD)	292 x 220 x 120mm	Certification UL,CB,CE
Cable input Entry	PG09 Cable Gland, 2.5-16mm ²	
Output Cable Gland	PG21 2.5-16mm ²	
DC Switch Disconnector	BYT.2-32/BYS	Environment
Rated Insulation Voltage (Ui)	1000V	Operating Temperature -20°C~+60°C
Rated Current (Ie)	32A	Humidity 99%
Category	DC21B/PV2	Altitude 2000M
Standard Compliance with	IEC 60947-3	Installation Wall Mounting
Certification	UL, TUV, KEMA, SAA, CE	

About ZJBENY

Top 1 in Australia, occupy 73% DC switch market share
3800MW worldwide projects have been installed with ZJBENY's String boxes.
As a pioneer manufacturer of true DC components, we supply more reliable solar combiner box and more customized solutions.

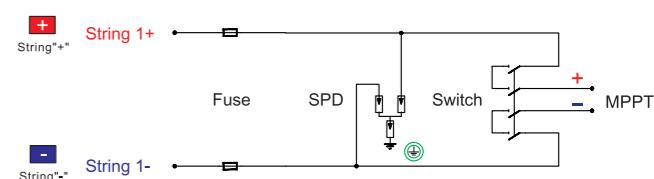
The best components for the best result.

The best components:
The best key parts of DC components are made by ourself
The best IP65 Polycarbonate enclosure are made by ourself

The best result:
In 350000 residential solar projects, 80% of solar rooftop in Australia with 0 failure
Work with you...



BHS-1/1



ZHEJIANG BENYI ELECTRICAL CO., LTD

Wenzhou Bridge Industrial Zone,
Beibaixiang Town, Zhejiang China

TEL: +86-577-5717 7009
FAX: +86-577-5717 7007

www.zjbeny.com
E-mail:zl@zjbeny.com

Solar DC String Box

2 Strings Input 1 String Output DC



Solar DC String Box

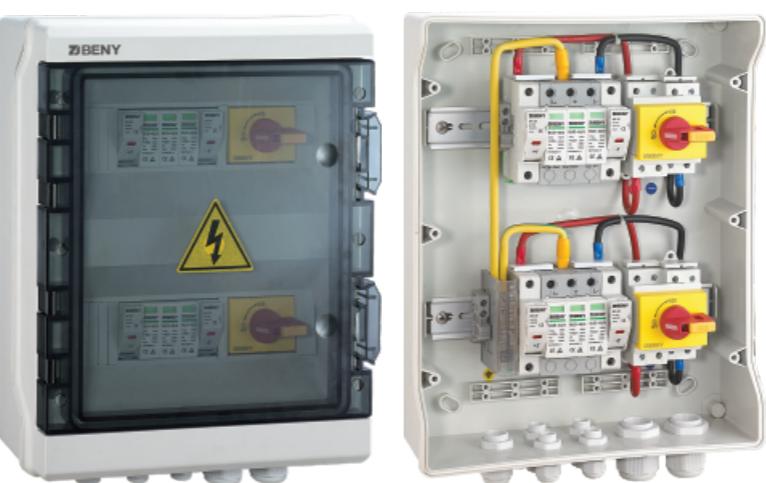
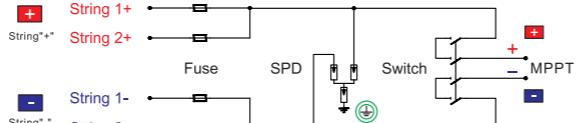
2 Strings Input 2 Strings Output DC



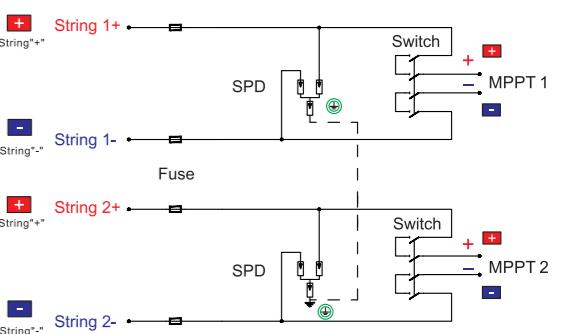
General Data		DC Surge Arrester	BUD-40/3	General Data		DC Surge Arrester	BUD-40/3
Model No.	BHS-2/1	Max Operation Voltage (Ucpv)	1000V	Model No.	BHS-2/2	Max Operation Voltage (Ucpv)	1000V
Input	2 strings	Standard Compliance with	EN 50539 Type 2	Input	2 strings	Standard Compliance with	EN 50539 Type 2
Output	1 string	Maximum Discharge Current	40 KA	Output	2 strings	Maximum Discharge Current	40 KA
Maximum Voltage	1000V	Certification	TUV CE	Maximum Voltage	1000V	Certification	TUV CE
Max DC Short Circuit Current Per Input (Isc)	15A (Changeable)			Max DC Short Circuit Current Per Input (Isc)	15A (Changeable)		
Maximum Current Output	32A			Maximum Current Output	32A		
Enclosure	BX-13	DC fuse holder	BR-30	Enclosure	BX-26	DC fuse holder	BR-30
Material Type	Polycarbonate/ABS	LED Indicator	Yes	Material Type	Polycarbonate/ABS	LED Indicator	Yes
Degree of Protection	IP65	Rated Working Voltage	1000V	Degree of Protection	IP65	Rated Working Voltage	1000V
Degree of Resistance to Impacts	IK10	Fuse Link	10x38mm LITTEL 15A	Degree of Resistance to Impacts	IK10	Fuse Link	10x38mm LITTEL 15A
Dimension (WxHxD)	292 x 220 x 120mm	Certification	UL,CB,CE	Dimension (WxHxD)	292 x 370 x 132mm	Certification	UL,CB,CE
Cable input Entry	PG09 Cable Gland, 2.5-16mm ²			Cable input Entry	PG09 Cable Gland, 2.5-16mm ²		
Output Cable Gland	PG21 2.5-16mm ²			Output Cable Gland	PG21 2.5-16mm ²		
DC Switch Disconnector	BYT.2-32/BYS	Environment		DC Switch Disconnector	BYT.2-32/BYS	Environment	
Rated Insulation Voltage (Ui)	1000V	Operating Temperature	-20°C~+60°C	Rated Insulation Voltage (Ui)	1000V	Operating Temperature	-20°C~+60°C
Rated Current (Ie)	32A	Humidity	99%	Rated Current (Ie)	32A	Humidity	99%
Category	DC21B/PV2	Altitude	2000M	Category	DC21B/PV2	Altitude	2000M
Standard Compliance with	IEC 60947-3	Installation	Wall Mounting	Standard Compliance with	IEC 60947-3	Installation	Wall Mounting
Certification	UL, TUV,KEMA,SAA,CE			Certification	UL, TUV,KEMA,SAA,CE		



BHS-2/1



BHS-2/2



 **Solar DC String Box**
3 Strings Input 1 String Output DC



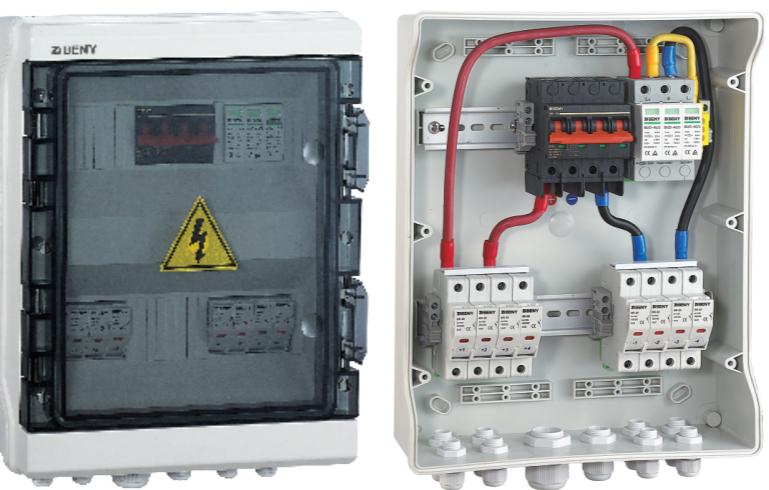
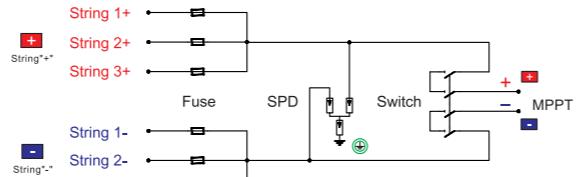
 **Solar DC String Box**
4 Strings Input 1 String Output DC



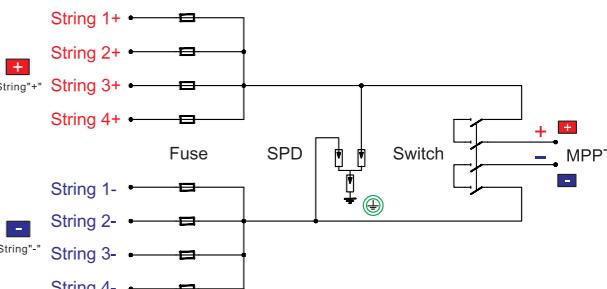
General Data		DC Surge Arrester	BUD-40/3	General Data		DC Surge Arrester	BUD-40/3
Model No.	BHS-3/1	Max Operation Voltage (Ucpv)	1000V	Model No.	BHS-4/1	Max Operation Voltage (Ucpv)	1000V
Input	3 strings	Standard Compliance with	EN 50539 Type 2	Input	4 strings	Standard Compliance with	EN 50539 Type 2
Output	1 string	Maximum Discharge Current	40 KA	Output	1 string	Maximum Discharge Current	40 KA
Maximum Voltage	1000V	Certification	TUV CE	Maximum Voltage	1000V	Certification	TUV CE
Max DC Short Circuit Current Per Input (Isc)	15A (Changeable)			Max DC Short Circuit Current Per Input (Isc)	15A (Changeable)		
Maximum Current Output	32A			Maximum Current Output	63A		
Enclosure	BX-13	DC fuse holder	BR-30	Enclosure	BX-26	DC fuse holder	BR-30
Material Type	Polycarbonate/ABS	LED Indicator	Yes	Material Type	Polycarbonate/ABS	LED Indicator	Yes
Degree of Protection	IP65	Rated Working Voltage	1000V	Degree of Protection	IP65	Rated Working Voltage	1000V
Degree of Resistance to Impacts	IK10	Fuse Link	10x38mm LITTEL 15A	Degree of Resistance to Impacts	IK10	Fuse Link	10x38mm LITTEL 15A
Dimension (WxHxD)	292 x 220 x 120mm	Certification	UL,CB,CE	Dimension (WxHxD)	292 x 370x 132mm	Certification	UL,CB,CE
Cable input Entry	PG09 Cable Gland, 2.5-16mm ²			Cable input Entry	PG09 Cable Gland, 2.5-16mm ²		
Output Cable Gland	PG21 2.5-16mm ²			Output Cable Gland	PG21 2.5-16mm ²		
DC Switch Disconnector	BYT.2-32/BYS	Environment		DC Switch Disconnector	BB1H-63	Environment	
Rated Insulation Voltage (Ui)	1000V	Operating Temperature	-20°C~+60°C	Rated Insulation Voltage (Ui)	1000V	Operating Temperature	-20°C~+60°C
Rated Current (Ie)	32A	Humidity	99%	Rated Current (Ie)	63A	Humidity	99%
Category	DC21B/PV2	Altitude	2000M	Category	DC21B	Altitude	2000M
Standard Compliance with	IEC 60947-3	Installation	Wall Mounting	Standard Compliance with	IEC 60947-3	Installation	Wall Mounting
Certification	UL, TUV,KEMA,SAA,CE			Certification	CB, CE		



BHS-3/1



BHS-4/1



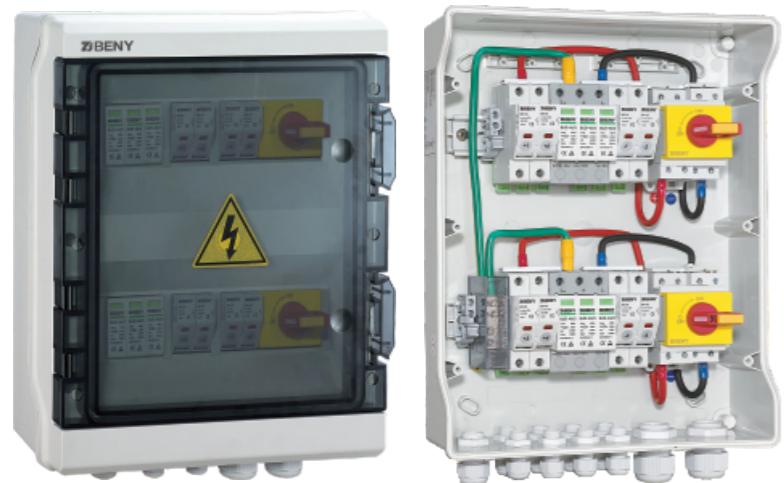
Solar DC String Box 4 Strings Input 2 Strings Output DC



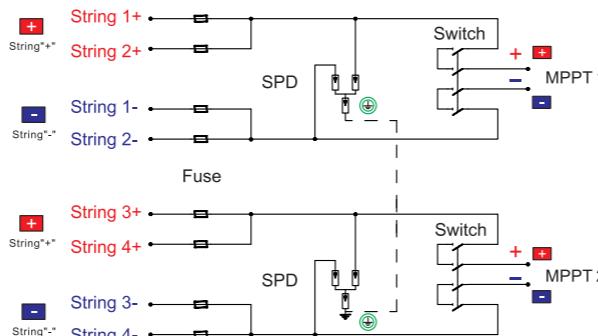
Solar DC String Box 6 Strings Input 1 String Output DC



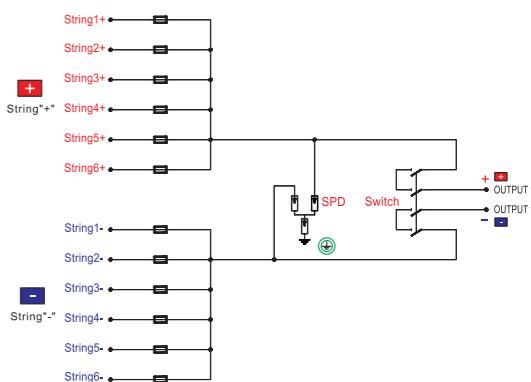
General Data		DC Surge Arrester	BUD-40/3	General Data		DC Surge Arrester	BUD-40/3
Model No.	BHS-4/2	Max Operation Voltage (Ucpv)	1000V	Model No.	BHS-6/1	Max Operation Voltage (Ucpv)	1000V
Input	4 strings	Standard Compliance with	EN 50539 Type 2	Input	6 strings	Standard Compliance with	EN 50539 Type 2
Output	2 strings	Maximum Discharge Current	40 KA	Output	1 string	Maximum Discharge Current	40 KA
Maximum Voltage	1000V	Certification	TUV CE	Maximum Voltage	1000V	Certification	TUV CE
Max DC Short Circuit Current Per Input (Isc)	15A (Changeable)			Max DC Short Circuit Current Per Input (Isc)	15A (Changeable)		
Maximum Current Output	32A			Maximum Current Output	80A		
Enclosure		DC fuse holder	BR-30	Enclosure		DC fuse holder	BR-30
Material Type	Polycarbonate/ABS	LED Indicator	Yes	Material Type	Polycarbonate/ABS	LED Indicator	Yes
Degree of Protection	IP65	Rated Working Voltage	1000V	Degree of Protection	IP65	Rated Working Voltage	1000V
Degree of Resistance to Impacts	IK10	Fuse Link	10x38mm LITTEL 15A	Degree of Resistance to Impacts	IK10	Fuse Link	10x38mm LITTEL 15A
Dimension (WxHxD)	292 x370 x 132mm	Certification	UL,CB,CE	Dimension (WxHxD)	540 x 360 x 180mm	Certification	UL,CB,CE
Cable input Entry	PG09 Cable Gland, 2.5-16mm ²			Cable input Entry	PG09 Cable Gland, 2.5-16mm ²		
Output Cable Gland	PG21 2.5-16mm ²			Output Cable Gland	PG36 50-70mm ²		
DC Switch Disconnector		Environment		DC Switch Disconnector	BDH-125	Environment	
Rated Insulation Voltage (Ui)	1000V	Operating Temperature	-20°C~+60°C	Rated Insulation Voltage (Ui)	1000V	Operating Temperature	-20°C~+60°C
Rated Current (Ie)	32A	Humidity	99%	Rated Current (Ie)	125A	Humidity	99%
Category	DC21B/PV2	Altitude	2000M	Standard Compliance with	IEC 60947-3	Altitude	2000M
Standard Compliance with	IEC 60947-3	Installation	Wall Mounting	Certification	CB, CE	Installation	Wall Mounting
Certification	UL, TUV,KEMA,SAA,CE						



BHS-4/2



BHS-6/1



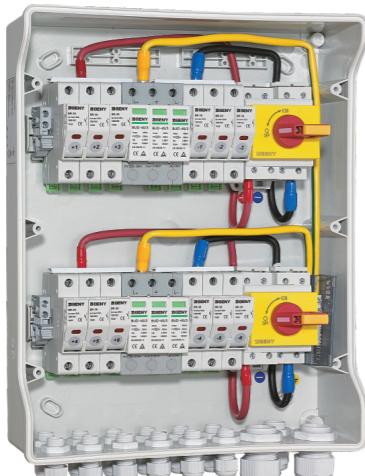
Solar DC String Box 6 Strings Input 2 Strings Output DC



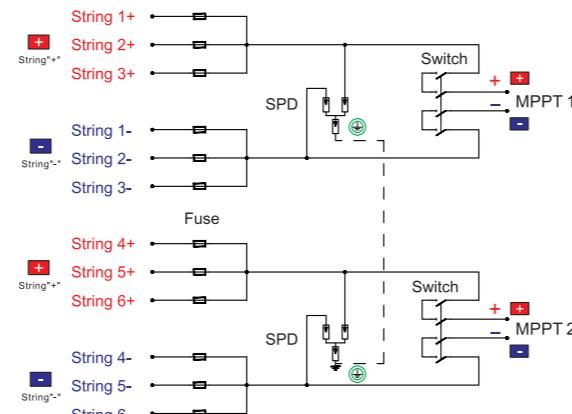
Solar DC String Box 12 Strings Input 2 Strings Output DC



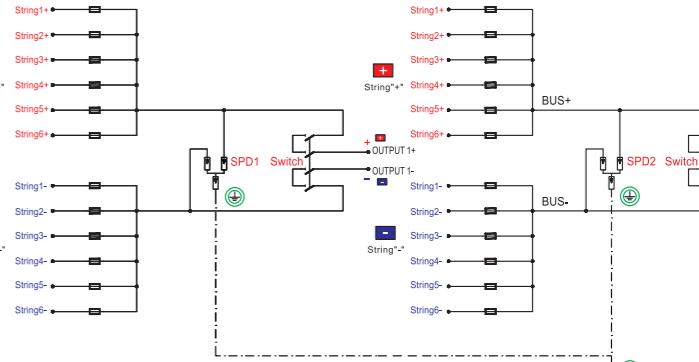
General Data		DC Surge Arrester	BUD-40/3	General Data		DC Surge Arrester	BUD-40/3
Model No.	BHS-6/2	Max Operation Voltage (Ucpv)	1000V	Model No.	BHT-12/2	Max Operation Voltage (Ucpv)	1000V
Input	6 strings	Standard Compliance with	EN 50539 Type 2	Input	12 strings	Standard Compliance with	EN 50539 Type 2
Output	2 strings	Maximum Discharge Current	40 KA	Output	2 strings	Maximum Discharge Current	40 KA
Maximum Voltage	1000V	Certification	TUV CE	Maximum Voltage	1000V	Certification	TUV CE
Max DC Short Circuit Current Per Input (Isc)	15A (Changeable)			Max DC Short Circuit Current Per Input (Isc)	15A (Changeable)	String Monitoring Device	Yes (optional)
Maximum Current Output	32A			Maximum Current Output	125A	Diode for the Function of Anti-Reflux	Yes (optional)
Enclosure	BX-26	DC fuse holder	BR-30	Enclosure		DC fuse holder	BR-30
Material Type	Polycarbonate/ABS	LED Indicator	Yes	Material Type	Metal	LED Indicator	Yes
Degree of Protection	IP65	Rated Working Voltage	1000V	Degree of Protection	IP65	Rated Working Voltage	1000V
Degree of Resistance to Impacts	IK10	Fuse Link	10x38mm LITTEL 15A	Degree of Resistance to Impacts	IK10	Fuse Link	10x38mm LITTEL 15A
Dimension (WxHxD)	292 x 370x 132mm	Certification	UL,CB,CE	Dimension (WxHxD)	750x450x180mm	Certification	UL,CB,CE
Cable input Entry	PG09 Cable Gland, 2.5-16mm ²			Cable input Entry	PG09 Cable Gland, 2.5-16mm ²		
Output Cable Gland	PG21 2.5-16mm ²			Output Cable Gland	PG36 50-70mm ²		
DC Switch Disconnector	BYT.2-32/BYS	Environment		DC Switch Disconnector	BDH-125	Environment	
Rated Insulation Voltage (Ui)	1000V	Operating Temperature	-20°C~+60°C	Rated Insulation Voltage (Ui)	1000V	Operating Temperature	-20°C~+60°C
Rated Current (le)	32A	Humidity	99%	Rated Current (le)	125A	Humidity	99%
Category	DC21B/PV2	Altitude	2000M	Standard Compliance with	IEC 60947-3	Altitude	2000M
Standard Compliance with	IEC 60947-3	Installation	Wall Mounting	Certification	CB	Installation	Wall Mounting
Certification	UL, TUV, KEMA, SAA, CE						



BHS-6/2



BHT-12/2



Solar DC String Box

16 Strings Input 1 String Output DC



AC Box

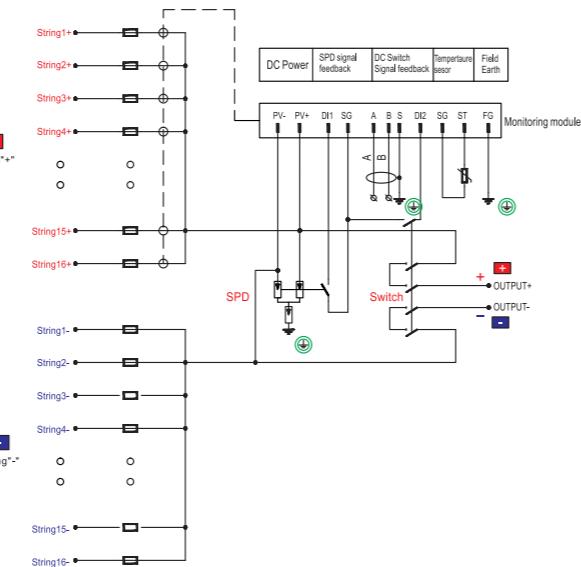
BHS AC Distribution Box



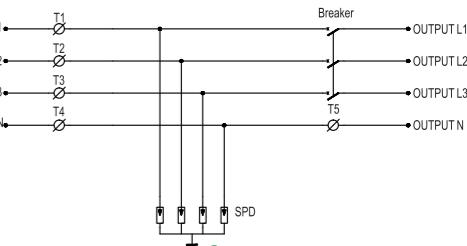
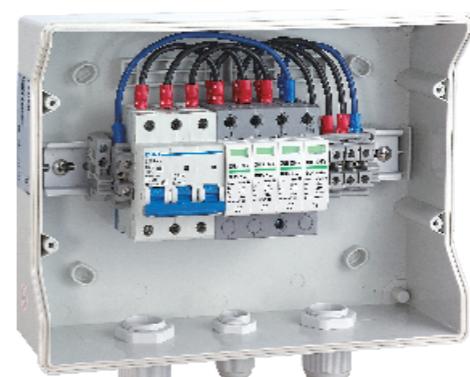
General Data		DC Surge Arrester	BUD-40/3	General Data		AC Surge Arrester	
Model No.	BHTZ-16/1	Max Operation Voltage (Ucpv)	1000V	Model No.	BHS AC	Electric rating	220V~440V, 50-60HZ
Input	16 strings	Standard Compliance with	EN 50539 Type 2	Rated Voltage	AC 220V~400V	Maximum Discharge Current	40 KA
Output	1 string	Maximum Discharge Current	40 KA	Rated Current	0-125A	Standard Compliance with	EN 61643-11
Maximum Voltage	1000V	Certification	TUV CE	Rated frequency	50-60Hz	Certification	CE
Max DC Short Circuit Current Per Input (Isc)	15A (Changeable)	String Monitoring Device	Yes (optional)				
Maximum Current Output	250A	Diode for the Function of Anti-Reflux	Yes (optional)				
Enclosure		DC fuse holder	BR-30	Enclosure	Environment		
Material Type	Metal	LED Indicator	Yes	Material Type	Polycarbonate/ABS		
Degree of Protection	IP65	Rated Working Voltage	1000V	Degree of Protection	IP65		
Degree of Resistance to Impacts	IK10	Fuse Link	10x38mm LITTEL 15A	Degree of Resistance to Impacts	IK10		
Dimension (WxHxD)	650 x 600x 210mm	Certification	UL,CB,CE	Dimension (WxHxD)	292 x 220x 120mm		
Cable input Entry	PG09 Cable Gland, 2.5-16mm ²			Cable input Entry	PG25 2.5-25mm ²		
Output Cable Gland	PG36 50-70mm ²			Output Cable Gland	PG25 2.5-25mm ²		
DC Switch Disconnector		BDH-250	Environment	Modular measurement and control relays			
Rated Insulation Voltage (Ui)	1000V	Operating Temperature	-20°C~+60°C	Network number of phases	Single Phase/3 Phases		
Rated Current (Ie)	250A	Humidity	99%	Rated Current	0-125A		
Standard Compliance with	IEC 60947-3	Altitude	2000M	Measurement range	220V~400V voltage AC		
Certification	CB	Installation	Wall Mounting	Supply frequency	50~60 Hz ±10%		



BHTZ-16/1



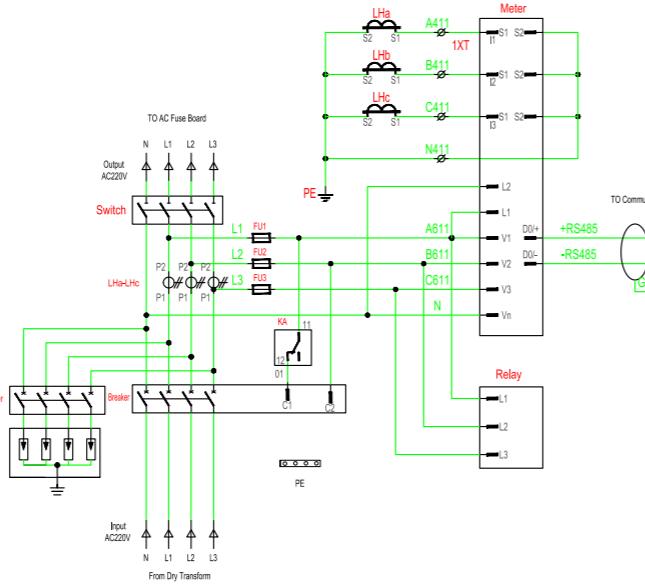
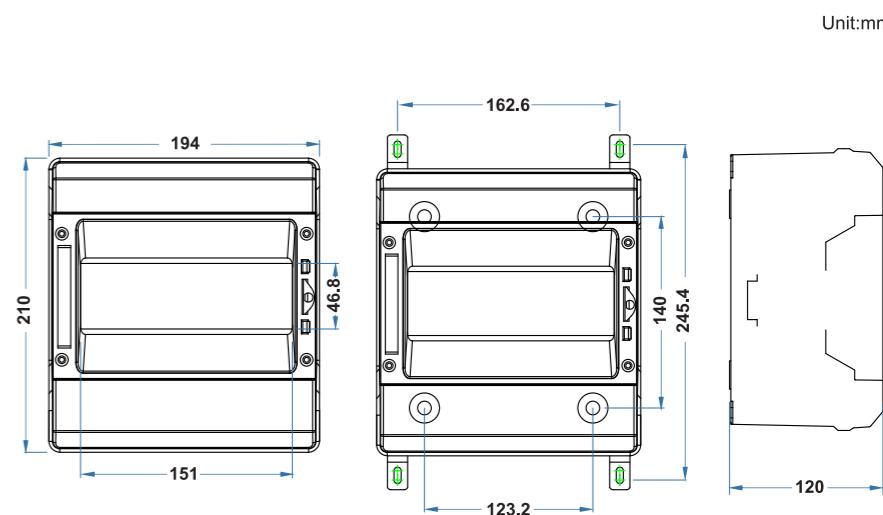
BHS




AC Box
BHT AC Distribution Box


PV Waterproof Box
08 Modules: 1x08x18mm


General Data		AC Surge Arrester		Protection	
Model No.	BHT	Electric rating	220V~400V, 50-60HZ, 3 phase	Protection class	IP 65
Main circuit rated Voltage	AC 230V/400V	Maximum Discharge Current	40 KA	Insulation	Class II
Auxiliary circuit rated voltage	AC230V	Standard Compliance with	EN 61643	Material	polycarbonate/ABS
Rated Current	0-500A	Certification	CE	Shock resistance	IK10
Rated frequency	50-60Hz			Protection against chemicals and weather conditions	Water, saline solutions, acids, basics, mineral oils, UV rays
				Operating temperature	-25°C~+100°C
Enclosure		Power Meter		Performance	
Material Type	Metal	Rated supply voltage (Us)	100~277 VAC(45~65 Hz)/173~480 VAC(45~65 Hz)	Nominal insulation voltage	1000V AC~1500V DC
Degree of Protection	IP65	Network frequency	50 Hz /60 Hz	Flexibility WxHxD, external dimensions	210x194x120mm
		Rated current (In)	1A /5A		
		Poles description	3P /3P + N		
		Power consumption in VA	5 VA		
		Display type	Backlit LCD		
Modular measurement and control relays NH40		Environment			
Network number of phases	3 phases	Operating Temperature	-20°C~+60°C		
Rated Current	0-500A	Humidity	99%		
Measurement range	220V~400V voltage AC	Altitude	2000M		
Supply frequency	50~60 Hz +/- 10 %	Installation	Wall Mounting		


BHT

BX08


ZBENY design and assemble AC combiner box and AC distribution box for solar PV systems AC side string protection and distribution. To reduce the system connection cable length and improve the reliability of the system, it is necessary to use the AC grid box between the inverter and the network cabinet. AC combine box has lightning protection and switch isolation, set aside energy measurement function, for single-phase energy and three-phase energy measurement and control management.

ZHEJIANG BENYI ELECTRICAL CO., LTD

Wenzhou Bridge Industrial Zone,
Beibaixiang Town, Zhejiang China

TEL: +86-577-5717 7009
FAX: +86-577-5717 7007

www.zjbeny.com
E-mail:zl@zjbeny.com

 **PV Waterproof Box**
13 Modules: 1x13x18mm



 **PV Waterproof Box**
15 Modules: 1x15x18mm

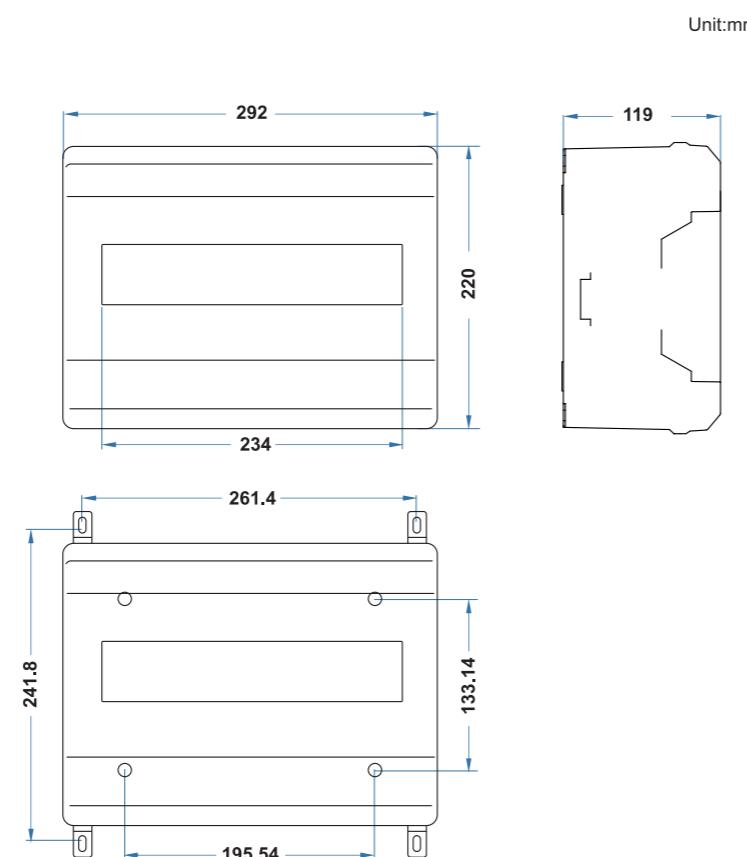


Protection	
Protection class	IP 65
Insulation	Class II
Material	polycarbonate/ABS
Shock resistance	IK10
Protection against chemicals and weather conditions	Water, saline solutions, acids, basics, mineral oils, UV rays
Operating temperature	-25°C~+100°C
Performance	
Nominal insulation voltage	1000V AC~1500V DC
Flexibility WxHxD, external dimensions	292x220x119mm

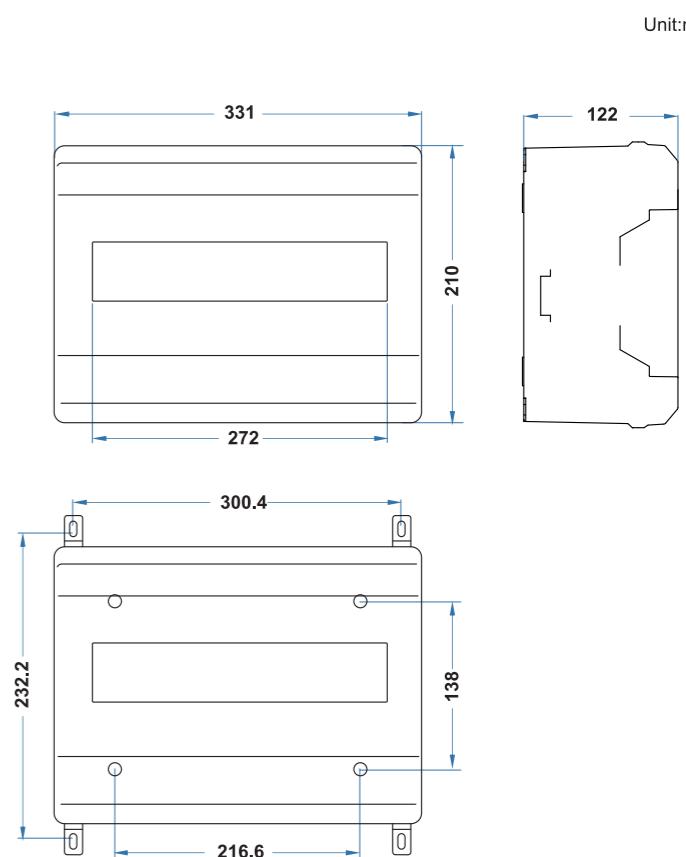
Protection	
Protection class	IP 65
Insulation	Class II
Material	polycarbonate/ABS
Shock resistance	IK10
Protection against chemicals and weather conditions	Water, saline solutions, acids, basics, mineral oils, UV rays
Operating temperature	-25°C~+100°C
Performance	
Nominal insulation voltage	1000V AC~1500V DC
Flexibility WxHxD, external dimensions	331x210x122mm



BX13



BX15



 **PV Waterproof Box**
26 Modules: 2x13x18mm



 **PV Waterproof Box**
39 Modules: 3x13x18mm

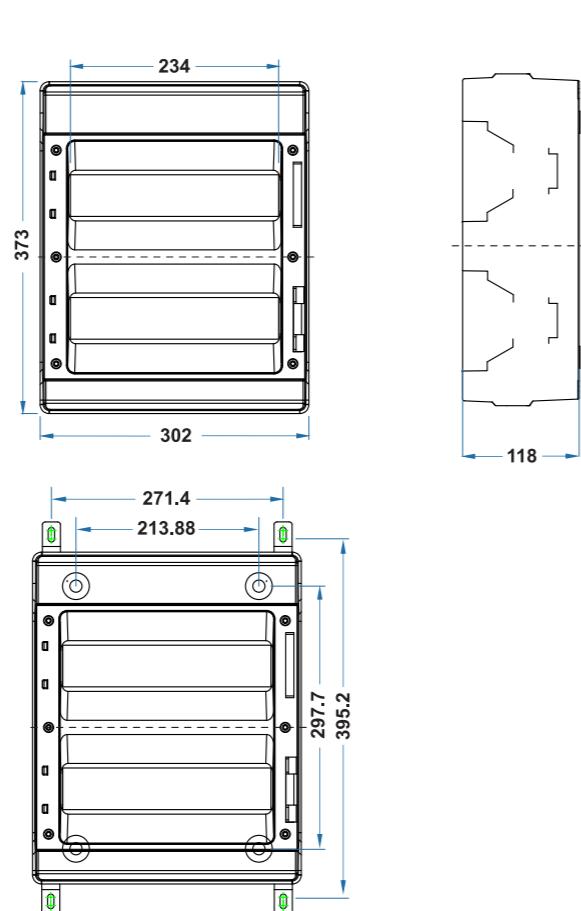


Protection	
Protection class	IP 65
Insulation	Class II
Material	polycarbonate/ABS
Shock resistance	IK10
Protection against chemicals and weather conditions	Water, saline solutions, acids, basics, mineral oils, UV rays
Operating temperature	-25°C~+100°C
Performance	
Nominal insulation voltage	1000V AC~1500V DC
Flexibility WxHxD, external dimensions	302x373x118mm

Protection	
Protection class	IP 65
Insulation	Class II
Material	polycarbonate/ABS
Shock resistance	IK10
Protection against chemicals and weather conditions	Water, saline solutions, acids, basics, mineral oils, UV rays
Operating temperature	-25°C~+100°C
Performance	
Nominal insulation voltage	1000V AC~1500V DC
Flexibility WxHxD, external dimensions	313x553x149mm



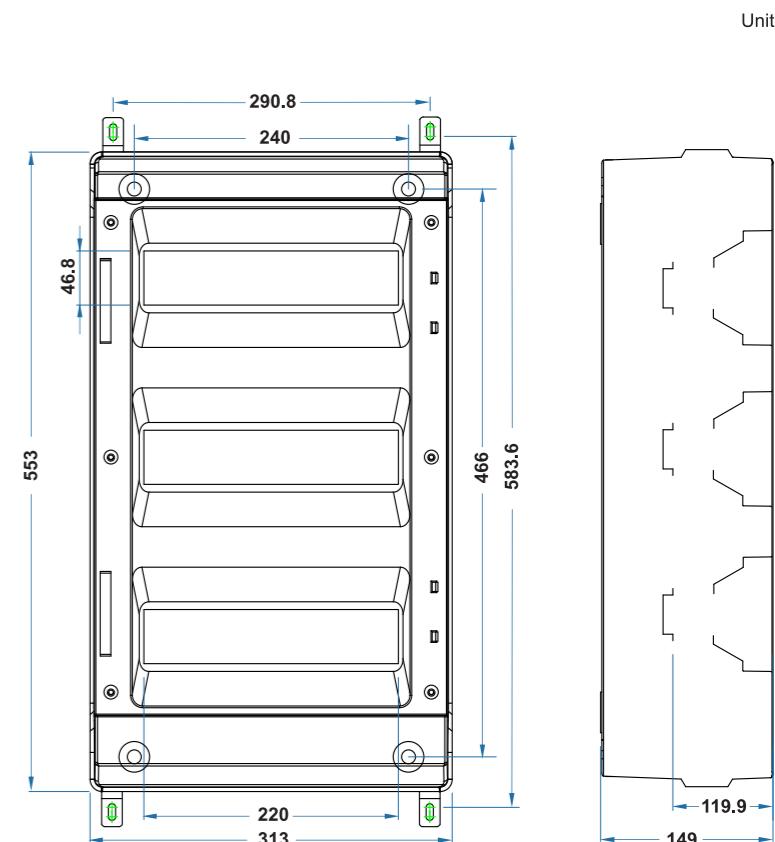
BX26



Unit:mm



BX39



Unit:mm