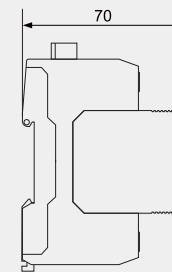
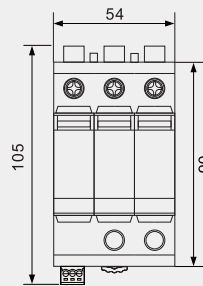
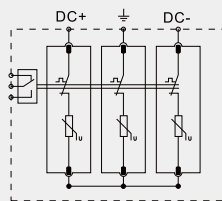
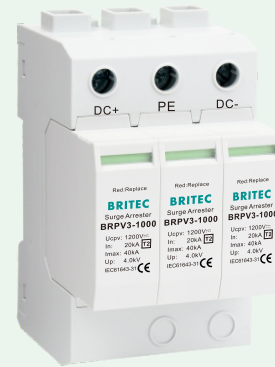




## DC Surge Arrester for pv

## BRPV3

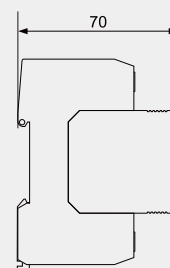
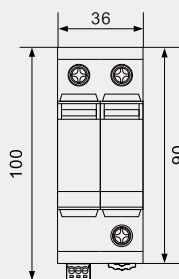
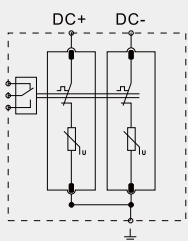
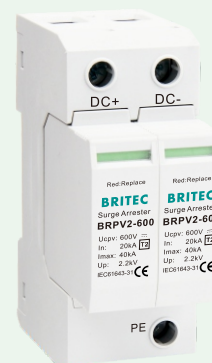
### Type 2 DC Surge Arrester for PV



3 Mod		BRPV3-600	BRPV3-1000	BRPV3-1500
SPD classification according to EN61643-31/IEC61643-31		Type 2 / Class II	Type 2 / Class II	Type 2 / Class II
Max. continuous operating dc voltage	Ucpv	600V	1200V	1500V
Nominal discharge current (8/20μs)	In	20kA	20kA	20kA
Max. discharge current (8/20μs)	I <sub>max</sub>	40kA	40kA	40kA
Voltage protection level [(DC+/DC-)→PE]	Up	≤ 2.2kV	≤ 4.0kV	≤ 5.2kV
Leakage current	I <sub>PE(DC)</sub>	<0.02mA	<0.02mA	<0.02mA
Short circuit current	I <sub>scpv</sub>	10kA	10kA	10kA
Response time	t <sub>A</sub>	≤ 25ns	≤ 25ns	≤ 25ns
Operating temperature range	T <sub>u</sub>	-40°C -80°C	-40°C -80°C	-40°C -80°C
Operating state/fault indication		green/red	green/red	green/red
Cross-section area (Min.)		4mm <sup>2</sup>	4mm <sup>2</sup>	4mm <sup>2</sup>
Cross-section area (Max.)		35mm <sup>2</sup>	35mm <sup>2</sup>	35mm <sup>2</sup>
For mounting on		35mm Din rail	35mm Din rail	35mm Din rail
Enclosure material		Thermoplastic UL94-V0	Thermoplastic UL94-V0	Thermoplastic UL94-V0
Degree of protection		IP20	IP20	IP20
Order Code		B18009	B18010	B18018
Order code (With remote signal)		B18011	B18012	B18019

## BRPV2

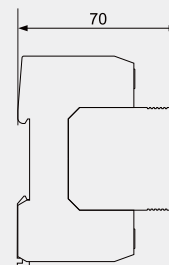
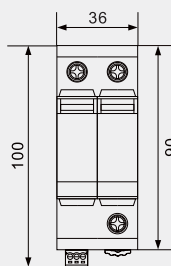
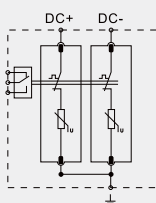
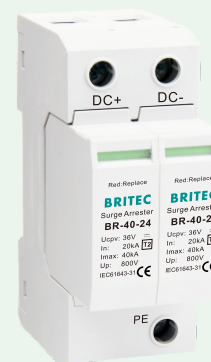
### Type 2 DC Surge Arrester



2 Mod		BRPV2-600
SPD classification according to EN61643-31/IEC61643-31		Type 2 / Class II
Max. continuous operating dc voltage	Ucpv	600V
Nominal discharge current (8/20μs)	In	20kA
Max. discharge current (8/20μs)	I <sub>max</sub>	40kA
Voltage protection level	Up	≤ 2.2kV
Leakage current	I <sub>PE(DC)</sub>	<0.02mA
Short circuit current	I <sub>scpv</sub>	10kA
Response time	t <sub>A</sub>	≤ 25ns
Operating temperature range	T <sub>u</sub>	-40°C -80°C
Operating state/fault indication		green/red
Cross-section area (Min.)		4mm <sup>2</sup>
Cross-section area (Max.)		35mm <sup>2</sup>
For mounting on		35mm Din rail
Enclosure material		Thermoplastic UL94-V0
Degree of protection		IP20
Order Code		B18013
Order code (With remote signal)		B18015

## BR-40 DC

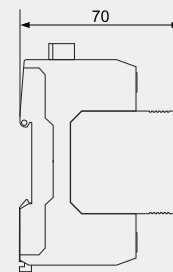
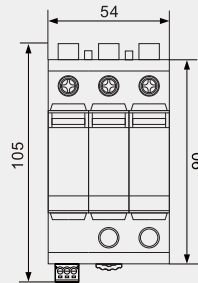
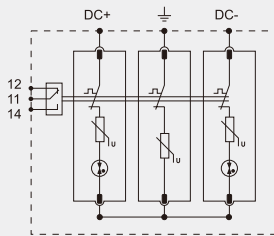
### Type 2 DC Surge Arrester



2 Mod		BR-40-24	BR-40-48	BR-40-75	BR-40-110
SPD classification according to EN61643-31		Type 2	Type 2	Type 2	Type 2
SPD classification according to IEC61643-31		Class II	Class II	Class II	Class II
Nominal voltage	Un	24V	48V	75V	110V
Max. continuous operating d.c. voltage	Ucpv	36V	65V	80V	180V
Nominal discharge current (8/20 μs)	In	20kA	20kA	20kA	20kA
Max. discharge current (8/20 μs)	Imax	40kA	40kA	40kA	40kA
Voltage protection level	Up	≤800V	≤800V	≤800V	≤900V
Leakage current	IPE(DC)	<0.02mA	<0.02mA	<0.02mA	<0.02mA
Short circuit current	Iscpv	10kA	10kA	10kA	10kA
Response time	tA	≤25ns	≤25ns	≤25ns	≤25ns
Operating temperature range	Tu	-40°C-80°C	-40°C-80°C	-40°C-80°C	-40°C-80°C
Operating state/fault indication		green/red	green/red	green/red	green/red
Cross-section area (Min.)		4 mm <sup>2</sup>	4 mm <sup>2</sup>	4 mm <sup>2</sup>	4 mm <sup>2</sup>
Cross-section area(Max.)		35mm <sup>2</sup>	35mm <sup>2</sup>	35mm <sup>2</sup>	35mm <sup>2</sup>
For mounting on		35mm Din rail	35mm Din rail	35mm Din rail	35mm Din rail
Enclosure material		Thermoplastic UL94-V0			
Degree of protection		IP20	IP20	IP20	IP20
Order Code		B18065	B18055	B18057	B18059
Order Code (With remote signaling)		B18066	B18056	B18058	B18060

## BRPV3GD

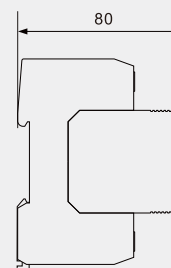
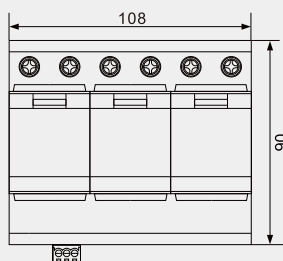
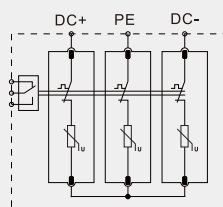
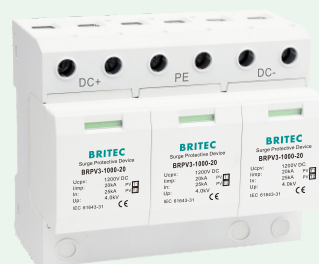
Type 2 DC Surge Arrester for PV



3 Mod free leakage current		BRPV3 600 GD	BRPV3 1000 GD
SPD classification according to EN61643-31/IEC61643-31		Type 2 / Class II	Type 2 / Class II
Max. continuous operating dc voltage	U <sub>cpv</sub>	600V	1200V
Nominal discharge current (8/20μs)	I <sub>n</sub>	20kA	20kA
Max. discharge current (8/20μs)	I <sub>max</sub>	40kA	40kA
Voltage protection level [(DC+/DC-)→PE]	U <sub>p</sub>	≤ 2.2kV	≤ 4.0kV
Leakage current	I <sub>PE(DC)</sub>	<0.01mA	<0.01mA
Short circuit current	I <sub>scpv</sub>	10kA	10kA
Response time	t <sub>A</sub>	≤ 100ns	≤ 100ns
Operating temperature range	T <sub>u</sub>	-40°C -80°C	-40°C -80°C
Operating state/fault indication		green/red	green/red
Cross-section area (Min.)		4mm <sup>2</sup>	4mm <sup>2</sup>
Cross-section area (Max.)		35mm <sup>2</sup>	35mm <sup>2</sup>
For mounting on		35mm Din rail	35mm Din rail
Enclosure material		Thermoplastic UL94-V0	Thermoplastic UL94-V0
Degree of protection		IP20	IP20
Order Code		B18005	B18006
Order code (With remote signal)		B18007	B18008

## BRPV3-1000-20

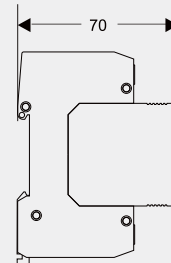
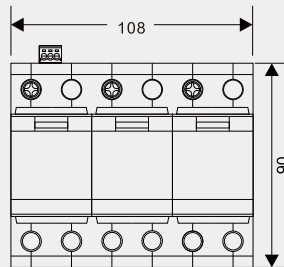
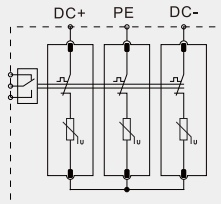
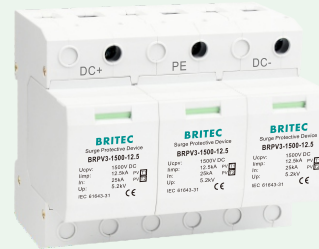
Type 1+2 DC Surge Arrester for PV



		BRPV3-1000-20
SPD classification according to EN61643-31/IEC61643-31		Type 1 + Type 2 / Class I + Class II
Max. continuous operating dc voltage	U <sub>cpv</sub>	1200V
Lightning impulse current (10/350µs)	I <sub>imp</sub>	20kA
Nominal discharge current (8/20µs)	I <sub>n</sub>	25kA
Max. discharge current (8/20µs)	I <sub>max</sub>	80kA
Specific energy	W/R	100kJ/Ω
Voltage protection level [(DC+/DC-)→PE]	U <sub>p</sub>	≤ 4.0kV
Leakage current	I <sub>PE(DC)</sub>	<0.02mA
Short circuit current	I <sub>scpv</sub>	10kA
Response time	t <sub>A</sub>	≤ 25ns
Operating temperature range	T <sub>u</sub>	-40°C -80°C
Operating state/fault indication		green/red
Cross-section area (Min.)		4mm <sup>2</sup>
Cross-section area (Max.)		35mm <sup>2</sup>
For mounting on		35mm Din rail
Enclosure material		Thermoplastic UL94-V0
Degree of protection		IP20
Order Code		B18094
Order code (With remote signal)		B18095

## BRPV3-1500-12.5

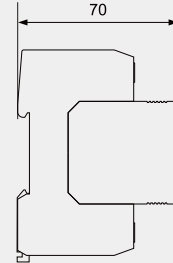
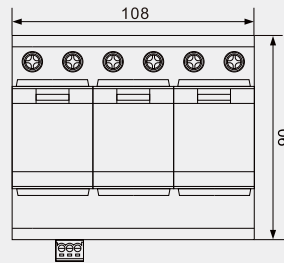
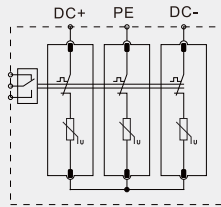
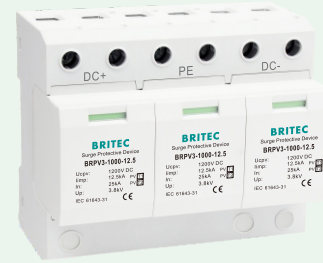
Type 1+2 DC Surge Arrester for PV



		BRPV3-1500-12.5
SPD classification according to EN61643-31/IEC61643-31		Type 1 + Type 2 / Class I + Class II
Max. continuous operating dc voltage	Ucpv	1500V
Lightning impulse current (10/350µs)	Iimp	12.5kA
Nominal discharge current (8/20µs)	In	25kA
Max. discharge current (8/20µs)	Imax	60kA
Specific energy	W/R	39kJ/Ω
Voltage protection level [(DC+/DC-)→PE]	Up	≤ 5.2kV
Leakage current	IPE(DC)	<0.02mA
Short circuit current	Iscpv	10kA
Response time	tA	≤ 25ns
Operating temperature range	Tu	-40°C -80°C
Operating state/fault indication		green/red
Cross-section area (Min.)		4mm <sup>2</sup>
Cross-section area (Max.)		35mm <sup>2</sup>
For mounting on		35mm Din rail
Enclosure material		Thermoplastic UL94-V0
Degree of protection		IP20
Order Code		B18092
Order code (With remote signal)		B18093

## BRPV3 T1

Type 1+2 DC Surge Arrester for PV

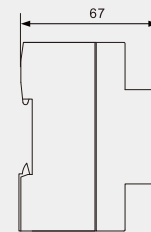
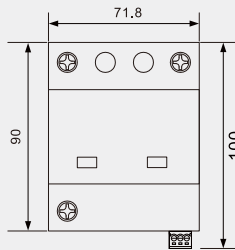
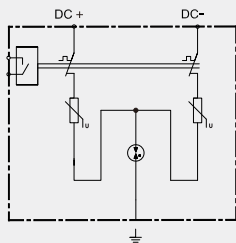


		BRPV3-600-12.5	BRPV3-1000-12.5
SPD classification according to EN61643-31/IEC61643-31		Type 1 + Type 2 / Class I + Class II	
Max. continuous operating dc voltage	Ucpv	600V	1200V
Lightning impulse current (10/350µs)	Iimp	12.5kA	12.5kA
Nominal discharge current (8/20µs)	In	25kA	25kA
Max. discharge current (8/20µs)	I <sub>max</sub>	60kA	60kA
Specific energy	W/R	39kJ/Ω	39kJ/Ω
Voltage protection level [(DC+/DC-)→PE]	Up	≤ 2.1kV	≤ 3.8kV
Leakage current	I <sub>PE(DC)</sub>	<0.02mA	<0.02mA
Short circuit current	I <sub>scpv</sub>	10kA	10kA
Response time	t <sub>A</sub>	≤ 25ns	≤ 25ns
Operating temperature range	T <sub>u</sub>	-40°C -80°C	-40°C -80°C
Operating state/fault indication		green/red	green/red
Cross-section area (Min.)		4mm <sup>2</sup>	4mm <sup>2</sup>
Cross-section area (Max.)		35mm <sup>2</sup>	35mm <sup>2</sup>
For mounting on		35mm Din rail	35mm Din rail
Enclosure material		Thermoplastic UL94-V0	
Degree of protection		IP20	IP20
Order Code		B18024	B18020
Order code (With remote signal)		B18025	B18021



## BRPV3 VG

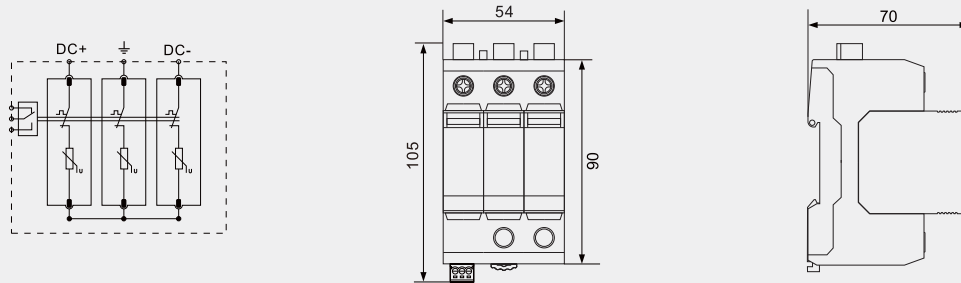
### Type 1+2 DC Surge Arrester for PV



		BRPV3-600-12.5VG	BRPV3-1000-12.5VG
SPD classification according to EN61643-31/IEC61643-31		Type 1 + Type 2 / Class I + Class II	
Max. continuous operating dc voltage	Ucpv	600V	1200V
Lightning impulse current (10/350µs)	Iimp	12.5kA	12.5kA
Nominal discharge current (8/20µs)	In	25kA	25kA
Max. discharge current (8/20µs)	Imax	60kA	60kA
Specific energy	W/R	39kJ/Ω	39kJ/Ω
Voltage protection level [(DC+/DC-)→PE]	Up	≤ 2.6kV	≤ 4.0kV
Leakage current	IPE (DC)	<0.01mA	<0.01mA
Short circuit current	Iscpv	10kA	10kA
Response time	tA	≤ 25ns	≤ 25ns
Operating temperature range	Tu	-40°C -80°C	-40°C -80°C
Operating state/fault indication		green/red	green/red
Cross-section area (Min.)		4mm <sup>2</sup>	4mm <sup>2</sup>
Cross-section area (Max.)		35mm <sup>2</sup>	35mm <sup>2</sup>
For mounting on		35mm Din rail	35mm Din rail
Enclosure material		Thermoplastic UL94-V0	
Degree of protection		IP20	IP20
Order Code		B18001	B18002
Order code (With remote signal)		B18003	B18004

## BRPV3 T1

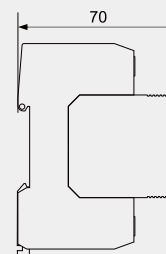
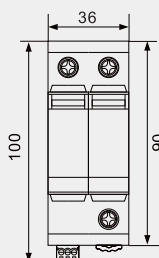
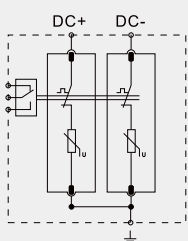
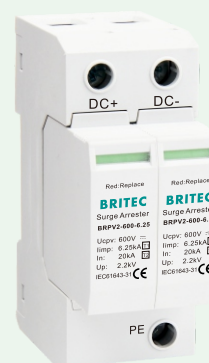
### Type 1+2 DC Surge Arrester for PV



3 Mod		BRPV3-600-6.25	BRPV3-1000-6.25	BRPV3-1500-6.25
SPD classification according to EN61643-31/IEC61643-31		Type 1 + Type 2 / Class I + Class II		
Max. continuous operating dc voltage	Ucpv	600V	1200V	1500V
Lightning impulse current (10/350µs)	Iimp	6.25kA	6.25kA	6.25kA
Nominal discharge current (8/20µs)	In	20kA	20kA	20kA
Max. discharge current (8/20µs)	I <sub>max</sub>	40kA	40kA	40kA
Specific energy	W/R	9.76kJ/Ω	9.76kJ/Ω	9.76kJ/Ω
Voltage protection level [(DC+/DC-)->PE]	Up	≤ 2.2kV	≤ 4.0kV	≤ 5.2kV
Leakage current	I <sub>PE (DC)</sub>	<0.02mA	<0.02mA	<0.02mA
Short circuit current	Iscpv	10kA	10kA	10kA
Response time	t <sub>A</sub>	≤ 25ns	≤ 25ns	≤ 25ns
Operating temperature range	T <sub>u</sub>	-40°C -80°C	-40°C -80°C	-40°C -80°C
Operating state/fault indication		green/red	green/red	green/red
Cross-section area (Min.)		4mm <sup>2</sup>	4mm <sup>2</sup>	4mm <sup>2</sup>
Cross-section area (Max.)		35mm <sup>2</sup>	35mm <sup>2</sup>	35mm <sup>2</sup>
For mounting on		35mm Din rail	35mm Din rail	35mm Din rail
Enclosure material		Thermoplastic UL94-V0	Thermoplastic UL94-V0	Thermoplastic UL94-V0
Degree of protection		IP20	IP20	IP20
Order Code		B18070	B18072	B18074
Orde code (With remote signal)		B18071	B18073	B18075

## BRPV2-600-6.25

Type 1+2 DC Surge Arrester for PV



### BRPV2-600-6.25

Type 1 + Type 2 / Class I + Class II

		BRPV2-600-6.25
SPD classification according to EN61643-31/IEC61643-31		Type 1 + Type 2 / Class I + Class II
Max. continuous operating dc voltage	Ucpv	600V
Lightning impulse current (10/350µs)	Iimp	6.25kA
Nominal discharge current (8/20µs)	In	20kA
Max. discharge current (8/20µs)	I <sub>max</sub>	40kA
Specific energy	W/R	9.76kJ/Ω
Voltage protection level [(DC+/DC-)→PE]	Up	≤ 2.2kV
Leakage current	I <sub>PE(DC)</sub>	<0.02mA
Short circuit current	I <sub>scpv</sub>	10kA
Response time	t <sub>A</sub>	≤ 25ns
Operating temperature range	T <sub>u</sub>	-40°C –80°C
Operating state/fault indication		green/red
Cross-section area (Min.)		4mm <sup>2</sup>
Cross-section area (Max.)		35mm <sup>2</sup>
For mounting on		35mm Din rail
Enclosure material		Thermoplastic UL94-V0
Degree of protection		IP20
Order Code		B18080
Order code (With remote signal)		B18081