

Class I, II SPD for Photovoltaic Systems



Category IEC / EN / VDE:

Location of use:

Protection modes:

Protective element:

Surge discharge rating:

Safety:

Internal protection:

Complies with:

Class I, II / Type 1, 2 / B, C

Photovoltaic systems - PV module side

(+) → PE, (-) → PE, (+) → (-)

High energy MOV and GDT

$I_{imp} = 12.5kA$; I_{max} up to 40kA

Ground fault immunity, ground fault withstand

Separate thermal disconnecter for each MOV

EN 50539-11, UL 1449 3rd Ed.

The new SAFETEC PV TCG* series of surge protective devices (SPDs):

- **Are highly reliable - controlled disconnection, arc-quenching**
- **Have no risk of fire in PV system - arc prevention function using rotating disc**
- **Are safer - controlled behaviour even when surge ratings are exceeded**
- **Have longer life - protection against ageing**
- **Have up to 20 years warranty**

SAFETEC B(R) PV TCG Series:

SAFETEC B(R) 12.5/xxxx PV TCG

SAFETEC B(R) 12.5/xxxx Y PV TCG

SAFETEC B(R) PV TCG series provides common and differential protection mode.

Patented TCG technology provides high level of reliability and safety in solar PV systems.

A unique indicator monitors all disconnectors and brings up a common status flag if any of current branches fails.

SAFETEC C(R) PV Series:

SAFETEC C(R) xxxx PV

SAFETEC C(R) xxxx Y PV

TCG technology enables high immunity in the case of ground faults in solar PV systems.

TCG technology means no leakage current.

Combination of GDT + MOV prevents intensive ageing of components, thereby prolonging the SPDs life-span.

SAFETEC C(R) xxxx PV UL

Selection of SPDs should adhere to national and international standards.

PV PROTEC C(R) 40/xxxx

*TCG - Thermal control function without leakage current
TC - Thermal control function



SAFETEC B(R) 12.5 PV TCG



- **Category IEC / EN:** Class I, II / Type 1, 2 / B, C
- **Location of use:** Photovoltaic systems - PV module side
- **Protection modes:** (+) → PE, (-) → PE, (+) → (-)
- **Protective elements:** High energy MOV and GDT
- **Surge discharge rating:** $I_{imp} = 12.5\text{kA}$
- **Safety:** Ground fault immunity
- **Leakage current:** NO leakage current (TCG)
- **Housing:** Compact design
- **Complies with:** EN 50539-11, UL 1449 3rd Ed.



Technical data

Type		SAFETEC B(R) 12.5/xxxx PV TCG		
		300	600	1000
Electrical characteristics				
Max. continuous operating voltage (DC)	U_{CPV}^*	300V	600V	1000V
Nominal discharge current (8/20)	$I_n (+) \rightarrow PE / (-) \rightarrow PE$		12.5kA	
Max. discharge current (8/20)	$I_{max} (+) \rightarrow PE / (-) \rightarrow PE$		40kA	
Impulse current (10/350)	$I_{imp} (+) \rightarrow PE / (-) \rightarrow PE$		12.5kA	
Short circuit withstand	I_{SCP}		1000A	
Specific energy			39kJ/Ω	
Charge			6.25As	
Protection level	U_p	< 1.1kV	< 1.6kV	< 2.4kV
Residual voltage at 5kA (8/20)	U_{res}	< 0.8kV	< 1.4kV	< 2.1kV
Follow current	I_{fi}		NO	
Residual current	I_{PE}		NO	
Response time	t_A		< 25ns	
Thermal protection			YES	
Ground fault immunity (DC)		600V	1200V	2000V
Mechanical characteristics				
Temperature range		- 40°C+ 80°C		
Terminal screw torque		max. 3.0Nm		
Terminal cross section		35mm ² (solid) / 25mm ² (stranded)		
Mounting		35mm DIN rail, EN 60715		
Degree of protection		IP 20		
Housing material		Thermoplastic; extinguishing degree UL 94 V-0		
Indication of disconnector operation		red flag		
Remote contacts (RC)		YES		
Contact ratings		AC: 250V/0.5A; 125V/3A		
Terminal cross section		max. 1.5mm ²		
Remote terminal torque		0.25Nm		

* $U_{CPV} \geq 1.2 \cdot U_{OCSTC}$ → open circuit voltage under standard test condition

Ordering information

U_{CPV}	300	600	1000
Ordering code SAFETEC B 12.5/xxxx PV TCG	54.0096	54.0098	54.0102
Ordering code SAFETEC BR 12.5/xxxx PV TCG (with remote contacts)	54.0097	54.0099	54.0103

TC solution available on request



SAFETEC B(R) 12.5 Y PV TCG



- Category IEC / EN: Class I, II / Type 1, 2 / B, C
- Location of use: Photovoltaic systems - PV module side
- Protection modes: (+) → PE, (-) → PE, (+) → (-)
- Protective elements: High energy MOV and GDT
- Surge discharge rating: $I_{imp} = 12.5\text{kA}$
- Safety: Ground fault immunity
- Leakage current: NO leakage current (TCG)
- Housing: Compact design
- Complies with: EN 50539-11, UL 1449 3rd Ed.



Technical data

Type		SAFETEC B(R) 12.5/xxxx Y PV TCG			
		600	1000	1200	1500
Electrical characteristics					
Max. continuous operating voltage (DC)	U_{CPV}^*	600V	1000V	1200V	1500V
Nominal discharge current (8/20)	I_n (+)→PE/(-)→PE/(+)→(-)			12.5kA	
Max. discharge current (8/20)	I_{max} (+)→PE/(-)→PE/(+)→(-)			40kA	
Impulse current (10/350)	I_{imp} (+)→PE/(-)→PE/(+)→(-)			12.5kA	
Short circuit withstand	I_{SCP}			1000A	
Specific energy				39kJ/Ω	
Charge				6.25As	
Protection level	U_p	< 1.8kV	< 3.0kV	< 3.6kV	< 4.2kV
Residual voltage at 5kA (8/20)	U_{res}	< 1.5kV	< 2.6kV	< 3.2kV	< 3.8kV
Follow current	I_{fi}			NO	
Residual current	I_{PE}			NO	
Response time	t_A			< 25ns	
Thermal protection				YES	
Ground fault immunity (DC)		1200V	2000V	2400V	3000V
Mechanical characteristics					
Temperature range			- 40°C+ 80°C		
Terminal screw torque			max. 3.0Nm		
Terminal cross section			35mm ² (solid) / 25mm ² (stranded)		
Mounting			35mm DIN rail, EN 60715		
Degree of protection			IP 20		
Housing material			Thermoplastic; extinguishing degree UL 94 V-0		
Indication of disconnector operation			red flag		
Remote contacts (RC)			YES		
Contact ratings			AC: 250V/0.5A; 125V/3A		
Terminal cross section			max. 1.5mm ²		
Remote terminal torque			0.25Nm		

* $U_{CPV} \geq 1.2 \cdot U_{OCSTC}$ → open circuit voltage under standard test condition

Ordering informations

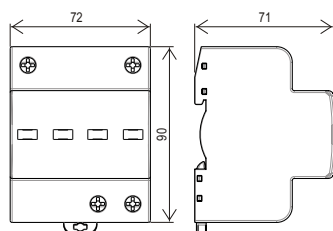
U_{CPV}	600	1000	1200	1500
Ordering code SAFETEC B 12.5/xxxx Y PV TCG	54.0100	54.0104	54.0106	54.0108
Ordering code SAFETEC BR 12.5/xxxx Y PV TCG (with remote contacts)	54.0101	54.0105	54.0107	54.0109

TC solution available on request

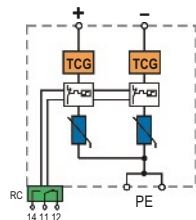
Dimensions, Internal configuration, Weight, Packaging, Connections

SAFETEC B(R) 12.5/xxxx PV TCG

Dimensions



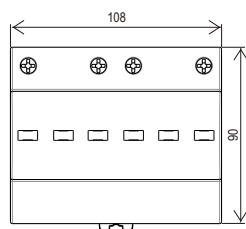
Internal configuration



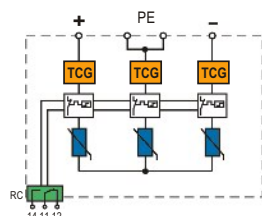
SAFETEC B 12.5/xxxx PV TCG	300	600	1000
Dimensions DIN 43880		4TE	
Weight per unit	440g	460g	800g
SAFETEC BR 12.5/xxxx PV TCG	300	600	1000
Dimensions DIN 43880		4TE	
Weight per unit	445g	465g	805g
Packaging dimensions (single unit)	109 x 76.5 x 78mm		
Min. Packaging quantity	3 pcs.		

SAFETEC B(R) 12.5/xxxx Y PV TCG

Dimensions

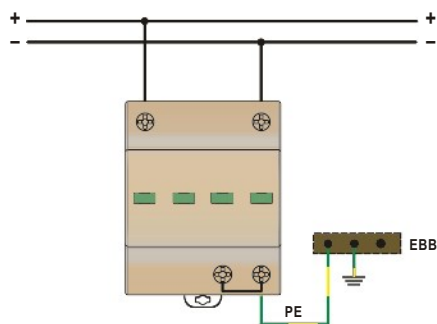


Internal configuration

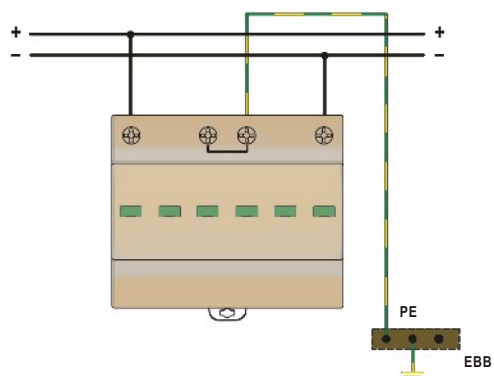


SAFETEC B 12.5/xxxx Y PV TCG	600	1000	1200	1500
Dimensions DIN 43880		6TE		
Weight per unit	590g	630g	1100g	1160g
SAFETEC BR 12.5/xxxx Y PV TCG	600	1000	1200	1500
Dimensions DIN 43880		6TE		
Weight per unit	600g	640g	1110g	1170g
Packaging dimensions (single unit)	109 x 110 x 78mm			
Min. Packaging quantity	2 pcs.			

SAFETEC B(R) 12.5/xxxx PV TCG



SAFETEC B(R) 12.5/xxxx Y PV TCG



SAFETEC C(R) PV



- Category IEC / EN / VDE: Class II / Type 2 / C
- Location of use: Photovoltaic systems - PV module side
- Protection modes: (+) → PE, (-) → PE, (+) → (-)
- Protective elements: MOV and GDT
- Surge discharge rating: $I_{\max}$ up to 40kA
- Safety: Ground fault withstand
- Housing: Modular design
- Complies with: EN 50539-11



Technical data

Type		75	SAFETEC C(R) xxxx PV		
			300	600	1000
Electrical characteristics					
Max. continuous operating voltage (DC)	$U_{CPV}^{*}(+) \rightarrow PE/(-) \rightarrow PE$	75V	300V	600V	1000V
Nominal discharge current (8/20)	$I_n (+) \rightarrow PE/(-) \rightarrow PE$	10kA	20kA	20kA	12.5kA
Max. discharge current (8/20)	$I_{\max} (+) \rightarrow PE/(-) \rightarrow PE$	20kA	40kA	40kA	25kA
Short-circuit withstand	I_{SCP}			1000A	
Protection level	$U_p (+) \rightarrow PE/(-) \rightarrow PE$	< 0.8kV	< 1.5kV	< 2.3kV	< 2.8kV
Residual voltage at 5kA (8/20)	U_{res}	< 0.6kV	< 1.1kV	< 1.6kV	< 2.2kV
Follow current	I_{fi}			NO	
Response time	t_A			< 25ns	
Thermal protection				YES	
Ground fault withstand (DC)		120V	450V	900V	1500V
Mechanical characteristics					
Temperature range			- 40°C+ 80°C		
Terminal screw torque			max. 3.0Nm		
Terminal cross section			35mm ² (solid) / 25mm ² (stranded)		
Mounting			35mm DIN rail, EN 60715		
Degree of protection			IP 20		
Housing material			Thermoplastic; extinguishing degree UL 94 V-0		
Indication of disconnector operation			red flag		
Remote contacts (RC)			YES		
Contact ratings			AC: 250V/0.5A; 125V/3A		
Terminal cross section			max. 1.5mm ²		
Remote terminal torque			0.25Nm		

* $U_{CPV} \geq 1.2 \cdot U_{OCSTC}$ → open circuit voltage under standard test condition

Ordering information

U_{CPV}	75	300	600	1000
Ordering code SAFETEC C xxxx PV	516.040	516.042	516.044	516.046
Ordering code SAFETEC CR xxxx PV (with remote contacts)	516.041	516.043	516.045	516.047
Ordering code Module SAFETEC C(R) xxxx PV	516.050	516.051	516.052	516.053

SAFETEC C(R) Y PV



- Category IEC / EN / VDE: Class II / Type 2 / C
- Location of use: Photovoltaic systems - PV module side
- Protection modes: (+) → PE, (-) → PE, (+) → (-)
- Protective elements: MOV and GDT
- Surge discharge rating: $I_{\max}$ up to 40kA
- Safety: Ground fault withstand
- Housing: Modular design
- Complies with: EN 50539-11



Technical data

Type		SAFETEC C(R) xxxxY PV		
		1000	1200	1500
Electrical characteristics				
Max. continuous operating voltage (DC)	U_{CPV}^* (+)→PE/(-)→PE	1000V	1200V	1500V
	U_{CPV} per module	500V	600V	750V
Nominal discharge current (8/20)	I_n (+)→PE/(-)→PE/(+)→(-)	20kA	20kA	12.5kA
Max. discharge current (8/20)	$I_{\max}$ (+)→PE/(-)→PE/(+)→(-)	40kA	40kA	25kA
Short-circuit withstand	I_{SCP}	1000A		
Protection level	U_p (+)→PE/(-)→PE/(+)→(-)	< 4.2kV	< 4.6kV	< 5.0kV
Residual voltage at 5kA (8/20)	U_{res}	< 3.2kV	< 3.6kV	< 4.0kV
Follow current	I_{fi}	NO		
Response time	t_A	< 25ns		
Thermal protection		YES		
Ground fault withstand (DC)		1500V	1800V	2400V
Mechanical characteristics				
Temperature range		- 40°C ... + 80°C		
Terminal screw torque		max. 3.0Nm		
Terminal cross section		35mm ² (solid) / 25mm ² (stranded)		
Mounting		35mm DIN rail, EN 60715		
Degree of protection		IP 20		
Housing material		Thermoplastic; extinguishing degree UL 94 V-0		
Indication of disconnector operation		red flag		
Remote contacts (RC)		YES		
Contact ratings		AC: 250V/0.5A; 125V/3A		
Terminal cross section		max. 1.5mm ²		
Remote terminal torque		0.25Nm		

* $U_{CPV} \geq 1.2 \cdot U_{OCSTC}$ → open circuit voltage under standard test condition

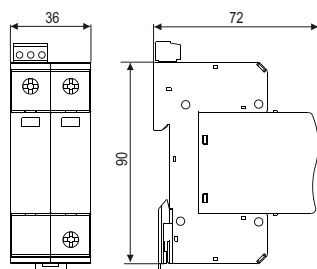
Ordering information

U_{CPV}	1000	1200	1500
Ordering code SAFETEC C xxxx Y PV	516.242	516.048	516.271
Ordering code SAFETEC CR xxxx Y PV (with remote contacts)	516.243	516.049	516.272
Ordering code Module SAFETEC C(R) xxxx Y PV	516.244	516.054	516.273

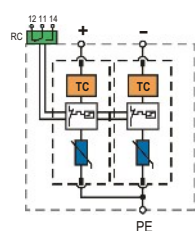
Dimensions, Internal configuration, Weight and Packaging

SAFETEC C(R) xxxx PV

Dimensions



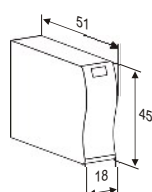
Internal configuration



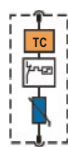
SAFETEC C xxxx PV	75	300	600	1000
Dimensions DIN 43880	2TE			
Weight per unit	246g	280g	290g	299g
SAFETEC CR xxxx PV	75	300	600	1000
Dimensions DIN 43880	2TE			
Weight per unit	251g	288g	298g	307g
Packaging dimensions (single unit)	109 x 76.5 x 41.5mm			
Min. packaging quantity	7 pcs.			

Module SAFETEC C(R) xxxx PV

Dimensions



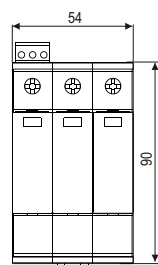
Internal configuration



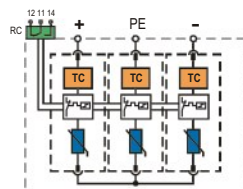
Module SAFETEC C(R) xxxx PV	75	300	600	1000
Weight per unit	45g	68g	74g	78g
Packaging dimensions	219 x 62 x 47mm			
Min. packaging quantity	12 pcs.			

SAFETEC C(R) xxxx Y PV

Dimensions



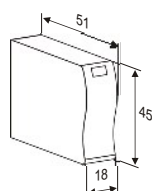
Internal configuration



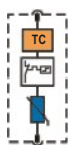
SAFETEC C xxxx Y PV	1000	1200	1500
Dimensions DIN 43880	3TE		
Weight per unit	396g	390g	400g
SAFETEC CR xxxx Y PV	1000	1200	1500
Dimensions DIN 43880	3TE		
Weight per unit	402g	396g	406g
Packaging dimensions (single unit)	109 x 76.5 x 60mm		
Min. packaging quantity	5 pcs.		

Module SAFETEC C(R) xxxx Y PV

Dimensions



Internal configuration

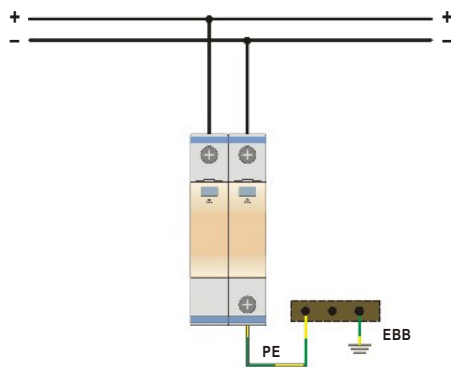


Module SAFETEC C(R) xxxx Y PV	1000	1200	1500
Weight per unit	74g	74g	76g
Packaging dimensions	219 x 62 x 47mm		
Min. packaging quantity	12 pcs.		

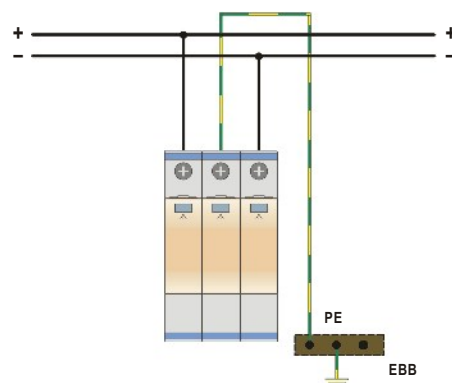
SAFETEC C(R) PV Series

Connections

SAFETEC C(R) xxxx PV



SAFETEC C(R) xxxx Y PV





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FILE
E 335214

SAFETEC C(R) PV (2+0) UL



- Classification UL 1449 3rd ed.: Type 2
- Location of use: Photovoltaic systems - PV module side
- Protection modes: (+) → PE (G), (-) → PE (G), (+) → (-)
- Protective elements: MOV and GDT
- Surge discharge rating: I_{max} up to 50kA
- Safety: Ground fault withstand
- Housing: Modular design
- Complies with: UL 1449 3rd Ed.



Technical data

Type		SAFETEC C(R) xxxx PV (2+0) UL		
		300	600	1000
Electrical characteristics				
Max. continuous operating voltage (DC)	MCOV	300V	600V	1000V
Nominal discharge current (8/20) per mode of protection	I_n	20kA	20kA	10kA
Max. discharge current (8/20) per mode of protection	I_{max}	50kA	50kA	20kA
Voltage protection rating per UL 1449 3rd ed.	VPR	1.5kV	2.0kV	4.0kV
Short circuit current rating	SCCR		200kA	
Follow current	I_{fi}		NO	
Response time	t_A		< 25ns	
Thermal protection			YES	
Ground fault withstand (DC)		450V	900V	1200V
Mechanical characteristics				
Terminal screw torque			max. 3.0Nm	
Temperature range			- 40°C + 80°C	
Terminal cross section			35mm ² (solid) / 25mm ² (stranded)	
Mounting			35mm DIN rail, EN 60715	
Degree of protection			IP 20	
Housing material			Thermoplastic; extinguishing degree UL 94 V-0	
Indication of disconnector operation			red flag	
Remote contacts (RC)			YES	
Contact ratings			AC: 250V/0.5A; 125V/3A	
Terminal cross section			max. 1.5mm ²	
Remote terminal torque			0.25Nm	

Ordering information

MCOV	300	600	1000
Ordering code SAFETEC C xxxx PV (2+0) UL	516.105	516.107	516.199
Ordering code SAFETEC CR xxxx PV (2+0) UL (with remote contacts)	516.106	516.108	516.200
Ordering code Module SAFETEC C(R) xxxx PV UL	516.207	516.208	516.209



APPROVED

FILE
E 335214

SAFETEC C(R) PV (3+0) UL



- Classification UL 1449 3rd ed.: Type 2
- Location of use: Photovoltaic systems - PV module side
- Protection modes: (+) → PE (G), (-) → PE (G), (+) → (-)
- Protective elements: MOV and GDT
- Surge discharge rating: I_{max} up to 50kA
- Safety: Ground fault withstand
- Housing: Modular design
- Complies with: UL 1449 3rd Ed.



Technical data

Type		300	600	1000	1200	1500
SAFETEC C(R) xxxx PV (3+0) UL						
Electrical characteristics						
Max. continuous operating voltage (DC)	MCOV	300V	600V	1000V	1200V	1500V
Nominal discharge current (8/20) per mode of protection	I_n	20kA	20kA	20kA	20kA	10kA
Max. discharge current (8/20) per mode of protection	I_{max}	50kA	50kA	50kA	50kA	20kA
Voltage protection rating per UL 1449 3rd ed.	VPR	2.4kV	3.0kV	4.0kV	4.0kV	5.0kV
Short circuit current rating	SCCR			200kA		
Follow current	I_{fi}			NO		
Response time	t_A			< 25ns		
Thermal protection				YES		
Ground fault withstand (DC)		450V	900V	1500V	1800V	2400V
Mechanical characteristics						
Terminal screw torque				max. 3.0Nm		
Temperature range				- 40°C + 80°C		
Terminal cross section				35mm ² (solid) / 25mm ² (stranded)		
Mounting				35mm DIN rail, EN 60715		
Degree of protection				IP 20		
Housing material				thermoplastic; extinguishing degree UL 94 V-0		
Indication of disconnector operation				red flag		
Remote contacts (RC)				YES		
Contact ratings				AC: 250V/0.5A; 125V/3A		
Terminal cross section				max. 1.5mm ²		
Remote terminal torque				0.25Nm		

Ordering information

MCOV	300	600	1000	1200	1500
Ordering code SAFETEC C xxxx PV (3+0) UL	516.598	516.599	516.600	516.109	516.601
Ordering code SAFETEC CR xxxx PV (3+0) UL (with remote contacts)	516.594	516.595	516.596	516.110	516.597
Ordering code Module SAFETEC C(R) xxxx PV UL	516.602	516.603	516.604	516.210	516.605



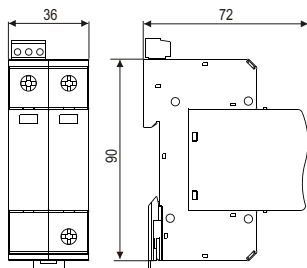
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FILE
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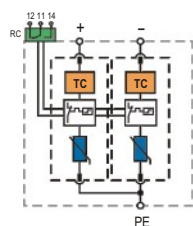
Dimensions, Internal configuration, Weight and Packaging

SAFETEC C(R) xxxx PV (2+0) UL

Dimensions



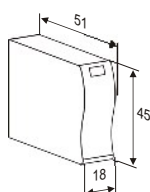
Internal configuration



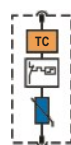
SAFETEC C xxxx PV (2+0) UL	300	600	1000
Dimensions DIN 43880	2TE		
Weight per unit	280g	290g	299g
SAFETEC CR xxxx PV (2+0) UL	300	600	1000
Dimensions DIN 43880	2TE		
Weight per unit	288g	298g	307g
Packaging dimensions (single unit)	109 x 76.5 x 41.5mm		
Min. packaging quantity	7 pcs.		

Module SAFETEC C(R) xxxx PV UL

Dimensions



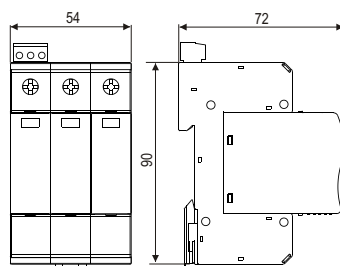
Internal configuration



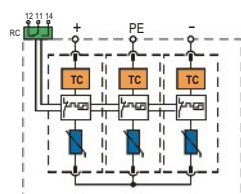
Module SAFETEC C(R) xxxx PV UL	300	600	1000
Weight per unit	68g	74g	78g
Packaging dimensions	219 x 62 x 47mm		
Min. packaging quantity	12 pcs.		

SAFETEC C(R) xxxx PV (3+0) UL

Dimensions



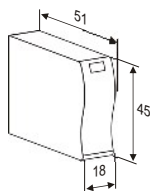
Internal configuration



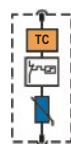
SAFETEC C xxxx PV (3+0) UL	300	600	1000	1200	1500
Dimensions DIN 43880	3TE				
Weight per unit	358g	370g	396g	390g	400g
SAFETEC CR xxxx PV (3+0) UL	300	600	1000	1200	1500
Dimensions DIN 43880	3TE				
Weight per unit	364g	376g	402g	392g	406g
Packaging dimensions (single unit)	109 x 76.5 x 60mm				
Min. packaging quantity	5 pcs.				

Module SAFETEC C(R) xxxx PV UL

Dimensions



Internal configuration



Module SAFETEC C(R) xxxx PV UL	300	600	1000	1200	1500
Weight per unit	62g	66g	74g	74g	76g
Packaging dimensions	219 x 62 x 47mm				
Min. packaging quantity	12 pcs.				



APPROVED

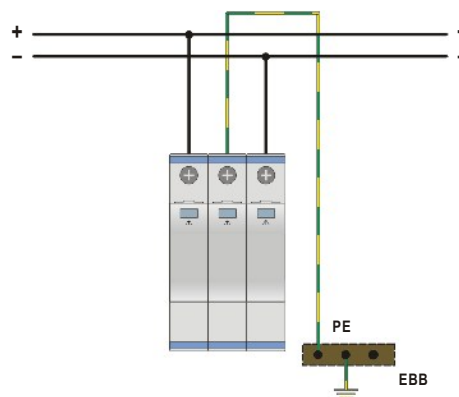
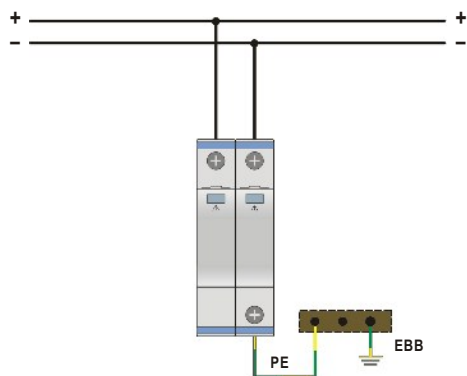
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E 335214

SAFETEC C(R) xxxx PV UL Series

Connections

SAFETEC C(R) 300 - 1000 PV (2+0) UL

SAFETEC C(R) 300 - 1500 PV (3+0) UL



PV PROTEC C(R) 40



- Category IEC / EN / VDE: Class II / Type 2 / C
- Location of use: Photovoltaic systems - PV module side
- Protection modes: (+) → PE, (-) → PE, (+) → (-)
- Protective element: MOV
- Surge discharge rating: $I_{\max} = 40\text{kA}$
- Housing: Modular design
- Complies with: EN 50539-11



Technical data

Type		100	PV PROTEC C(R) 550	40/xxxx 600	1000
Electrical characteristics					
Max. continuous operating voltage (DC)	U _{CPV} [*] (+)→PE/(-)→PE	100V	550V	600V	1000V
	U _{CPV} per module	100V	550V	300V	500V
Nominal discharge current (8/20)	I _n	20kA per pole			
Max. discharge current (8/20)	I _{max}	40kA per pole			
Protection level	U _p	< 0.7kV	< 1.9kV	< 3.0kV	< 3.6kV
Residual voltage at 5kA (8/20)	U _{res}	< 0.4kV	< 1.6kV	< 2.2kV	< 3.0kV
Follow current	I _{fi}	NO			
Response time	t _A	< 25ns			
Thermal protection		YES			
Mechanical characteristics					
Temperature range		- 40°C+ 80°C			
Terminal screw torque		max. 3.0Nm			
Terminal cross section		35mm ² (solid) / 25mm ² (stranded)			
Mounting		35mm DIN rail, EN 60715			
Degree of protection		IP 20			
Housing material		Thermoplastic; extinguishing degree UL 94 V-0			
Indication of disconnector operation		red flag			
Remote contacts (RC)		YES			
Contact ratings		AC: 250V/0.5A; 125V/3A			
Terminal cross section		max. 1.5mm ²			
Remote terminal torque		0.25Nm			

* $U_{CPV} \geq 1.2 \cdot U_{OCSTC}$ → open circuit voltage under standard test condition

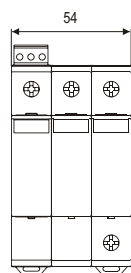
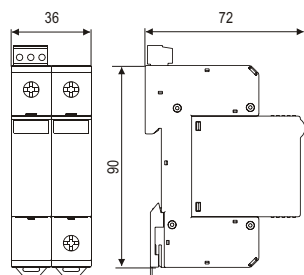
Ordering information

U_{CPV}	100	550	600	1000
Ordering code PV PROTEC C 40/xxxx	501.521	501.527	501.709	501.543
Ordering code PV PROTEC CR 40/xxxx (with remote contacts)	501.531	501.537	501.710	501.547
Ordering code Module PV PROTEC C(R) 40/xxxx	50.0496	50.0497	501.711	50.0498

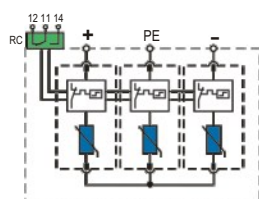
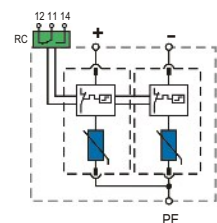
Dimensions, Internal configuration, Weight, Packaging
Network connections

PV PROTEC C(R) 40/xxxx

Dimensions



Internal configuration



Dimensions, weight and packaging

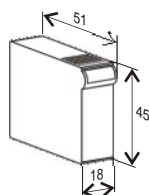
PV PROTEC C 40/xxx	100	550
Dimensions DIN 43880	2TE	
Weight per unit	274g	302g
PV PROTEC CR 40/xxx	100	550
Dimensions DIN 43880	279g	307g
Weight per unit	2TE	
Packaging dimensions (single unit)	109 x 76.5 x 41.5mm	
Min. packaging quantity	7 pcs.	

Dimensions, weight and packaging

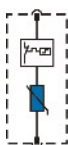
PV PROTEC C 40/xxxx	600	1000
Dimensions DIN 43880	3TE	
Weight per unit	329g	398g
PV PROTEC C 40/xxxx	600	1000
Dimensions DIN 43880	3TE	
Weight per unit	334g	403g
Packaging dimensions (single unit)	109 x 76.5 x 60mm	
Min. packaging quantity	5 pcs.	

Module PV PROTEC C(R) 40/xxxx

Dimensions



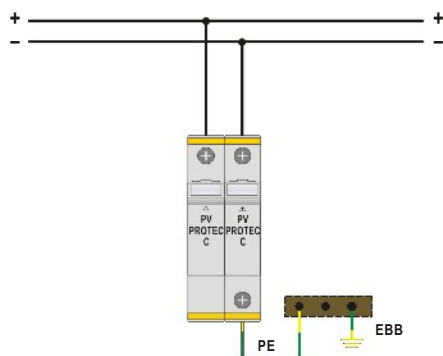
Internal configuration



Dimensions, weight and packaging

Module PV PROTEC C(R) 40/xxxx	100	550	600	1000
Weight per unit	46g	58g	52g	58g
Packaging dimensions	219 x 62 x 47mm			
Min. packaging quantity	12 pcs.			

PV PROTEC C(R) 40/100, 40/550



PV PROTEC C(R) 40/600, 40/1000

