

# DS50VGPV/12KT1, DS50PV/12KT1

## Технические характеристики

### По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231	Казань (843)206-01-48	Новокузнецк (3843)20-46-81	Смоленск (4812)29-41-54
Архангельск (8182)63-90-72	Калининград (4012)72-03-81	Новосибирск (383)227-86-73	Сочи (862)225-72-31
Астрахань (8512)99-46-04	Калуга (4842)92-23-67	Омск (3812)21-46-40	Ставрополь (8652)20-65-13
Барнаул (3852)73-04-60	Кемерово (3842)65-04-62	Орел (4862)44-53-42	Сургут (3462)77-98-35
Белгород (4722)40-23-64	Киров (8332)68-02-04	Оренбург (3532)37-68-04	Тверь (4822)63-31-35
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Волгоград (844)278-03-48	Курск (4712)77-13-04	Ростов-на-Дону (863)308-18-15	Тюмень (3452)66-21-18
Вологда (8172)26-41-59	Липецк (4742)52-20-81	Рязань (4912)46-61-64	Ульяновск (8422)24-23-59
Воронеж (473)204-51-73	Магнитогорск (3519)55-03-13	Самара (846)206-03-16	Уфа (347)229-48-12
Екатеринбург (343)384-55-89	Москва (495)268-04-70	Санкт-Петербург (812)309-46-40	Хабаровск (4212)92-98-04
Иваново (4932)77-34-06	Мурманск (8152)59-64-93	Саратов (845)249-38-78	Челябинск (351)202-03-61
Ижевск (3412)26-03-58	Набережные Челны (8552)20-53-41	Севастополь (8692)22-31-93	Череповец (8202)49-02-64
Иркутск (395)279-98-46	Нижний Новгород (831)429-08-12	Симферополь (3652)67-13-56	Ярославль (4852)69-52-93
Россия (495)268-04-70	Киргизия (996)312-96-26-47	Казахстан (7172)727-132	

# TYPE 1+2 PV SURGE PROTECTOR



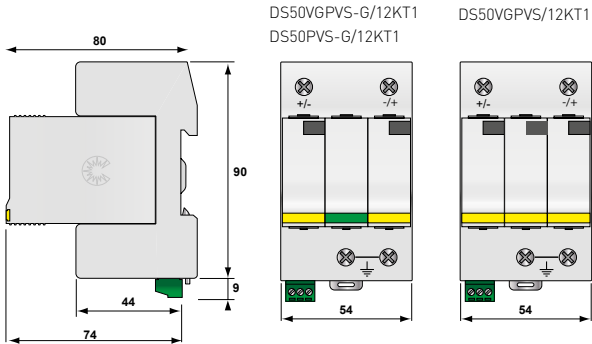
DS50PVS-1000G/12KT1

## D50\*PV/12KT1 SERIES

- For 1000 and 1250 Vdc PV voltage
- Impulse currents  $I_{imp}/I_{total}$  : 6.25/12.5 kA @ 10/350 $\mu$ s
- VG-Technology version
- Common Mode and Differential protection
- Remote Signaling (option)
- Plug-in modules
- EN 50539-11 compliance

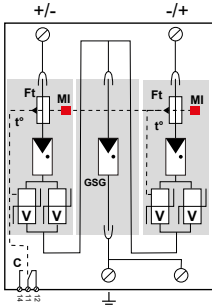
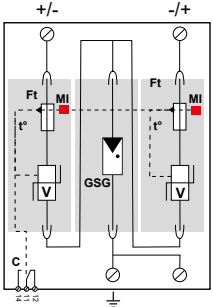


### Characteristics

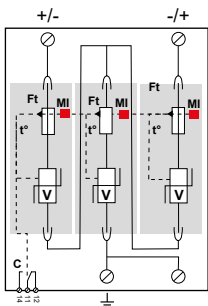


DS50PVS-1000G/12KT1

DS50VGPVS-1000G/12KT1

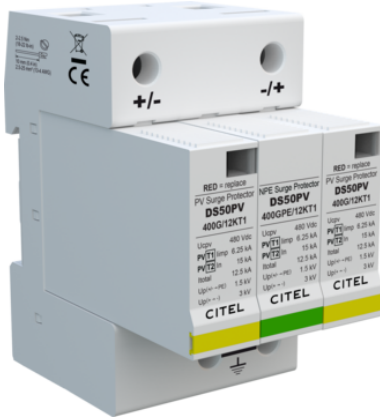


DS50PVS-1500/12KT1

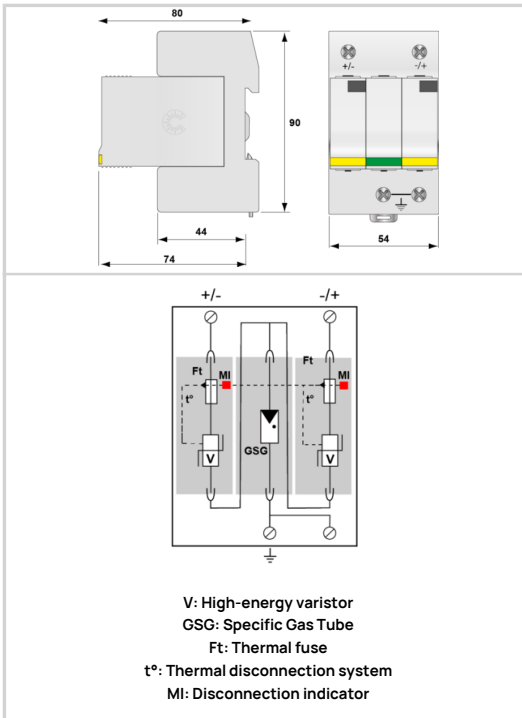


CITEL Model	DS50VGPV-1000G/12KT1	DS50PV-1000G/12KT1	DS50PV-1500/12KT1
Description	Type 1+2 PV surge protector		
PV Network	Uocstc 1000 Vdc	1000 Vdc	1250 Vdc
Protection mode(s)	CM/DM	CM/DM	CM/DM
Max. PV operating voltage	Ucpv 1200 Vdc	1200 Vdc	1500 Vdc
Current withstand short circuit PV	Iscpv 15 000 A	15 000 A	15 000 A
Permanent operating current	Icpv None	< 0.1 mA	< 0.1 mA
Residual current	Ipe None	None	< 0.1 mA
Leakage current at Ucpv			
Follow current	if None	None	None
Nominal discharge current	In 15 kA	15 kA	15 kA
15 x 8/20 $\mu$ s impulses			
Max. discharge current	I <sub>max</sub> 40 kA	40 kA	40 kA
max. withstand @ 8/20 $\mu$ s by pole			
Impulse current by pole	I <sub>imp</sub> 6.25 kA	6.25 kA	6.25 kA
max. withstand 10/350 $\mu$ s			
Total lightning current	I <sub>total</sub> 12.5 kA	12.5 kA	12.5 kA
max. total withstand @ 10/350 $\mu$ s			
Total max. discharge current	I <sub>max total</sub> 60 kA	60 kA	60 kA
max. total withstand @ 8/20 $\mu$ s			
Protection level CM/DM	U <sub>p</sub> 2.8/5.1 kV	2.6/4.6 kV	5.3/5.3 kV
@In (8/20 $\mu$ s) and @ 6kV (1.2/50 $\mu$ s)			
<b>Associated disconnectors</b>			
Thermal disconnector	internal		
Fuses	without		
<b>Mechanical characteristics</b>			
Dimensions	see diagram		
Connection to Network	Screw terminals: 2.5-25mm <sup>2</sup>		
Disconnection indicator	2 mechanical indicators		
Remote signaling of disconnection	Option	Option	Option
output on changeover contact	DS50VGPVS-1000G/12KT1	DS50PVS-1000G/12KT1	DS50PVS-1500/12KT1
Mounting	Symmetrical rail 35 mm (EN60715)		
Operating temperature	-40/+85°C		
Protection rating	IP20		
Housing material	Thermoplastic UL94 V-0		
<b>Standards</b>			
Compliance	EN50539-11		
Certification	EAC	EAC / TUV	EAC / TUV
<b>Part number</b>			
	482303	482383	482523

GSG: Gas-filled spark gap  
 V : High energy MOV  
 Ft : Thermal fuse  
 t° : Thermal disconnection mechanism  
 C : Contact for remote signal  
 MI : Disconnection indicator



- ↳ Type 1+2 surge protector for Photovoltaic
- ↳ Impulse currents  $I_{limp}/I_{total}$  : 6.25/12.5 kA (10/350 $\mu$ s)
- ↳ Common/Differential mode protection
- ↳ Remote signaling (option)
- ↳ EN 50539-11 / IEC 61643-31 compliance



Electrical Characteristics		
SPD type (following IEC tests)		1+2
Network		400 Vdc PV power line
Nominal PV voltage	Uocstc	400 Vdc
Max. PV operating voltage	Ucpv	480 Vdc
Residual Current (Leakage current to Ground)	Ipe	None
PV Permanent Operating current (Current consumption at Ucpv)	Icpv	< 0.1 mA
Follow current	If	None
Nominal discharge current (15 x 8/20 $\mu$ s impulses)	In	15 kA
Max. discharge current (max. withstand @ 8/20 $\mu$ s by pole)	Imax	40 kA
Total Maximum discharge current (max. total withstand @ 8/20 $\mu$ s)	Imax Total	60 kA
Impulse current by pole (max. withstand 10/350 $\mu$ s by pole)	I <sub>limp</sub>	6.25 kA
Total lightning current (max. total withstand @ 10/350 $\mu$ s)	I <sub>total</sub>	12.5 kA
Current withstand short circuit PV	I <sub>scpv</sub>	15 000 A
Connection mode(s)		+/-/PE
Protection mode(s)		Common/Differential mode
Protection level +/- (@ In (8/20 $\mu$ s))	Up	3 kV
Protection level +/PE (-/PE) (@ In (8/20 $\mu$ s))	Up	1.5 kV
Mechanical Characteristics		
Technology		MOV + GDT
Connection to Network		by screw terminals: 2.5-25 mm <sup>2</sup>
Format		Plug-in modular box
Mounting		Symmetrical rail 35 mm (EN 60715)
Housing material		Thermoplastic UL94 V-0
Operating temperature	Tu	-40/+85°C
Protection rating		IP20
Disconnection indicator		2 mechanical indicators
Spare module(s)		DSM50PV-400G/12KT1 + DSM50PV-400GPE/12KT1
Remote signaling of disconnection		Option DS50PVS-400G/12KT1 - output on changeover contact
Dimensions		See diagram
Weight		0.358 kg
Disconnectors		
Thermal disconnector		Internal
Fuses		Without
Standards		
Standards compliance		EN 61643-11 / IEC 61643-31
Part number		
<b>482932</b>		

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