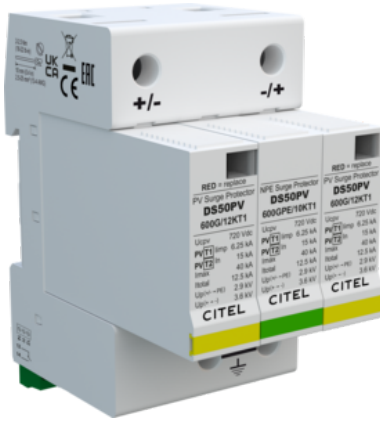




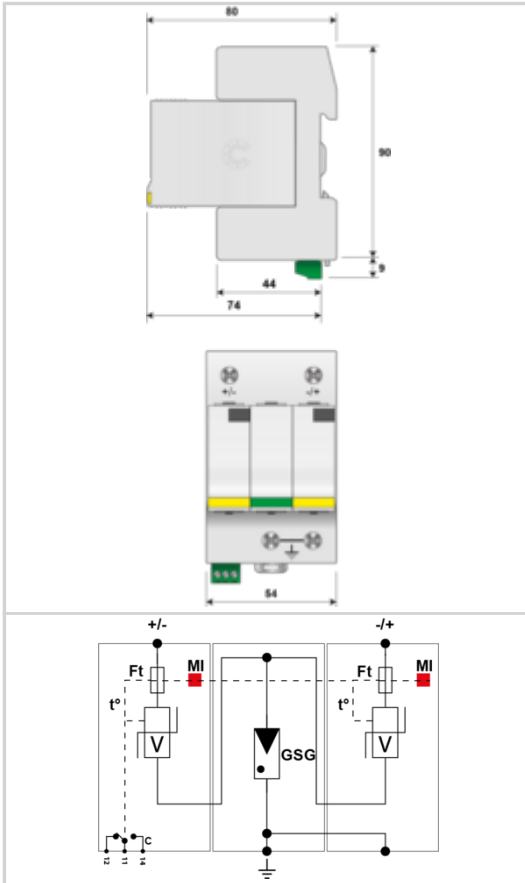
# Type 1+2 PV surge protector - 600 Vdc

# CITEL

## DS50PVS-600G/12KT1



- Type 1+2 surge protector for Photovoltaic
- Impulse currents  $I_{imp}/I_{total}$  : 6.25/12.5 kA (10/350 $\mu$ s)
- Common/Differential mode protection
- Remote signaling
- IEC 61643-31, EN 61643-31, EN 50539-11 and UL1449 ed.5 compliance



Electrical Characteristics		
SPD type		1+2
Network		PV 600 Vdc
Nominal PV voltage	Uocstc	600 Vdc
Max. PV operating voltage	Uc <sub>pv</sub>	720 Vdc
Residual Current	I <sub>pe</sub>	None
Leakage current to Ground		
PV Permanent Operating Current consumption at U <sub>cpv</sub>	I <sub>cpv</sub>	< 0.1 mA
Follow current	I <sub>f</sub>	None
Nominal discharge current	I <sub>n</sub>	15 kA
15 x 8/20 $\mu$ s impulses		
Max. discharge current	I <sub>max</sub>	40 kA
max. withstand @ 8/20 $\mu$ s by pole		
Total Maximum discharge current	I <sub>max Total</sub>	60 kA
max. total withstand @ 8/20 $\mu$ s		
Impulse current by pole	I <sub>imp</sub>	6.25 kA
max. withstand 10/350 $\mu$ s by pole		
Total lightning current	I <sub>total</sub>	12.5 kA
max. total withstand @ 10/350 $\mu$ s		
Current withstand short circuit PV	I <sub>scpv</sub>	15 000 A
Connection mode(s)		+/-/PE
Protection mode(s)		Common/Differential mode
Protection level +/- @ I <sub>n</sub> (8/20 $\mu$ s)	U <sub>p</sub>	3.6 kV
Protection level +/-PE (-/PE) @ I <sub>n</sub> (8/20 $\mu$ s)	U <sub>p</sub>	2.9 kV
Mechanical Characteristics		
Technology		MOV+GDT
Connection to Network		By screw terminals: 2.5-25mm <sup>2</sup>
Format		Plug-in modular box
Mounting		Symmetrical rail 35 mm (EN 60715)
Housing material		Thermoplastic UL94 V-2
Operating temperature	T <sub>u</sub>	-40/+85°C
Protection rating		IP20
Disconnection indicator		2 mechanical indicators
Spare module(s)		DSM50PVS-600G/12KT1 + DSM50PVS-600GPE/12KT1
Remote signaling of disconnection		Output on changeover contact
Dimensions		See diagram
Weight		0.328 kg
Disconnectors		
Thermal disconnector		Internal
Back-up protection device		Without
Standards		
Standards compliance		IEC 61643-31 / EN 61643-31 / EN 50539-11 / UL1449 ed.5
Part number		482443

