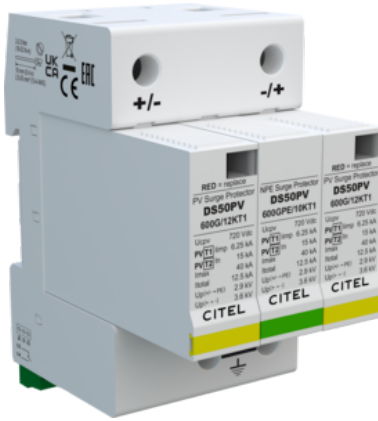




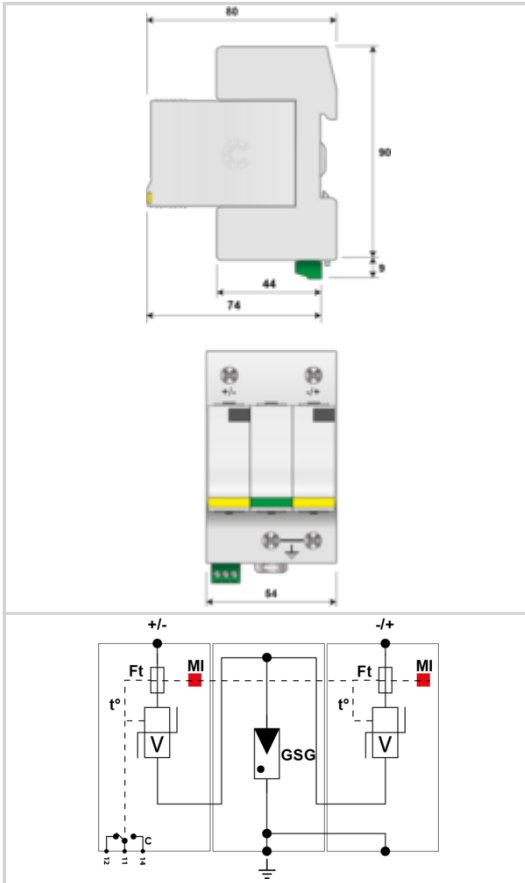
## Type 1+2 PV surge protector - 600 Vdc

# 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 Leakage current to Ground	I <sub>pe</sub> None
PV Permanent Operating current Current consumption at U <sub>cpv</sub>	I <sub>cpv</sub> < 0.1 mA
Follow current	I <sub>f</sub> None
Nominal discharge current 15 x 8/20 $\mu$ s impulses	I <sub>n</sub> 15 kA
Max. discharge current max. withstand @ 8/20 $\mu$ s by pole	I <sub>max</sub> 40 kA
Total Maximum discharge current max. total withstand @ 8/20 $\mu$ s	I <sub>max Total</sub> 60 kA
Impulse current by pole max. withstand 10/350 $\mu$ s by pole	I <sub>imp</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 +/- @ 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

