



DC Power Surge Protector

DS210-xxDC



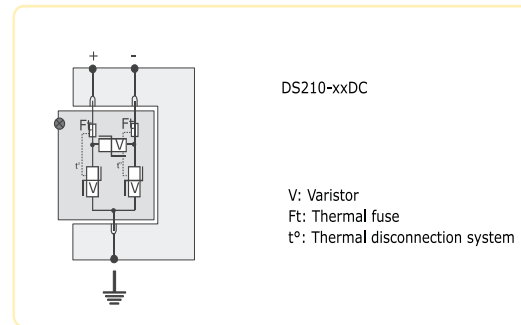
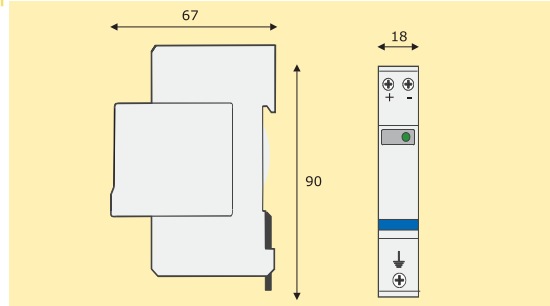
DS210-24DC

DS210-xxDC is a DC Surge Protection Device (SPD) for remote, off grid DC power applications. The DS210-xxDC provides protection against the direct and indirect effects of lightning.

The DS210-xxDC is a dual pole module protecting both positive and negative to ground and is available for DC power system voltages of 12, 24, 48, 75, 95, 110 and 130 Vdc. It is installed in-line or parallel with the power system and is mounted on a din rail for application directly next to the charge controller or power supply.

The DS210-xxDC incorporates a proven Metal Oxide Varistor (MOV) protection circuit and specific DC thermal fuses that allow robust surge current handling up to 6kA 8/20us and reliable DC disconnection. These units have visual fault indicators and replaceable protection modules.

Dimensions and Diagram



- Surge Protector for DC Supplies
- From 12 to 130Vdc
- Discharge Currents: I_{max} 2 to 6kA
- Disconnection indicator
- Pluggable Module

Characteristics

CITEL part number		DS210-12DC	DS210-24DC	DS210-48DC	DS210-75DC	DS210-95DC	DS210-110DC	DS210-130DC
Nominal DC voltage	Un-dc	12 Vdc	24 Vdc	48 Vdc	75 Vdc	95 Vdc	110 Vdc	130 Vdc
Maximal AC voltage	Uc	10 Vac	15 Vac	40 Vac	60 Vac	75 Vac	95 Vac	115 Vac
Maximal DC voltage	Uc-dc	15 Vdc	30 Vdc	56 Vdc	85 Vdc	100 Vdc	125 Vdc	150 Vdc
Nominal discharge current	In	1 kA	1 kA	1 kA	2 kA	2 kA	2 kA	2 kA
	15 x 8/20 μs impulses							
Maximum discharge current	I _{max}	2 kA	2 kA	2 kA	6 kA	6 kA	6 kA	6 kA
	1 impulse 8/20 μs							
Protection level (at In)	Up	85 V	105 V	180 V	250 V	300 V	350 V	400 V
Thermal disconnecter		internal						
Fuses		Fuses - 50 A time delay						
Dimensions		see diagram						
Connection		by screw terminals : #8 AWG MAX						
Disconnection indicator		Green led off						
Mounting		symmetrical rail 35 mm						
Operating temperature		-40/+85 °C						
Protection class		IP20						
Housing material		Thermoplastic UL94-V0						