



1. GENERAL APPLICATIONS

- 1.1 The protector is for protecting your valued equipment from surges, transients, lightning impulses coupled into power system via direct or indirect strikes, an on/off or a short circuit in the transmission lines, induced or coupled into a DC voltage system, providing the safety of your personnel, communication equipment, computers and any other electronic equipment e.g. solar power system and etc.
- 1.2 The protector is able to protect Transient (also called " Surge ") such as an impulse of 8/20 μ Sec. waveform.
- 1.3 Metal Oxide Varistor (MOV), surge protecting component, is manufactured by TDK (formerly named SIEMENS) with the approval of UL1449.
- 1.4 The protector housing is made of nonflammable class material in according with UL94V-0 standard and DIN rail 35 mm. mountable.
- 1.5 The protector is plug in module unit with base element type for easy installation and replacement.
- 1.6 The protector is designed, manufactured and tested according to the standard of IEC 61643-21.

2N1D series

SURGE PROTECTOR FOR DC LINE



2N1D12V

Size : 100 x 37 x 70 mm.

2. TECHNICAL DATA



Descriptions	2N1D12V	2N1D24V	2N1D48V
2.1 Nominal operating voltage	12 Vdc	24 Vdc	48 Vdc
2.2 Max. operating voltage (Uc)	15 Vdc	30 Vdc	60 Vdc
2.3 Response time	< 25 nSec		
2.4 Operating temperature	-20 °C to + 85 °C		
2.5 DC load current	Independent (Un-limited)		
2.6 Nominal discharge current (In) (at 8/20 μ Sec.)	2 kA		
2.7 Max. discharge current (Imax) (at 8/20 μ Sec.)	4 kA		
2.8 Residual voltage (Ures) (Differential mode 6 kV / 3 kA) (Common mode 6 kV / 3 kA)	< 200 V < 120 V	< 250 V < 140 V	< 300 V < 160 V
2.9 Protection mode	All modes ([+]-G , [-]-G , [+]-[-])		
2.10 Status display	Normal or Fault indicator		
2.11 Housing material	UL94V-0 standard		
2.12 Mounting	DIN rail 35 mm.		
2.13 Connection type	Screw terminal		
2.14 Dimension (W x L x H)	Approx. 100 x 37 x 70 mm.		
2.15 Weight	Approx. 300 grams		
2.16 Standard according	IEC 61643-21		

3. OPTIONS

3.1	IC1 = Indoor Cabinet	IP1 = Indoor Plate	ID1 = on DIN RAIL	OC1 = Outdoor Cabinet
-----	----------------------	--------------------	-------------------	-----------------------

