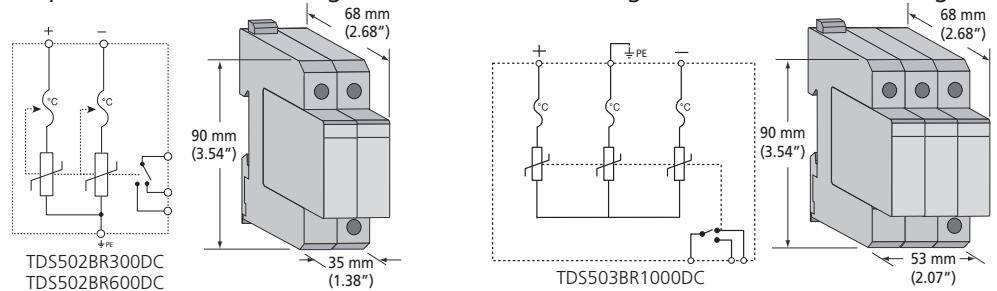


Features

- Designed to provide economical and reliable protection from transients on DC power systems
- Compact design fits into inverters and solar combiner boxes
- Conveniently packaged for easy installation on DIN rail
- Provides remote status monitoring
- Designed with thermal disconnect protection
- Separate plug and base design – hot swappable feature allows ease of module replacement



Surges and voltage transients are a major cause of equipment failure and system disruption. The TDS50 series surge protective devices, part of the ERITECH® line of facility electrical protection products from ERICO, are designed to provide economical and reliable protection from voltage transients on solar PV systems. They are conveniently packaged for easy installation on 35 mm DIN rail. Internal thermal disconnect devices help ensure safe behavior at end-of-life. A visual indicator flag provides user feedback in the event of such operation. As standard, the TDS50 provides a set of voltage-free contacts for remote signaling that maintenance is required. The convenient plug-in module and separate base design facilitates replacement of a failed surge module without needing to undo installation wiring.



Model	TDS502BR300DC	TDS502BR600DC	TDS503BR1000DC
Nominal Voltage - DC	300 V	600 V	1,000 V
Max Cont. Operating Voltage, U_c	325 V DC	790 V DC	1100 V DC
Frequency	0-100 Hz		
Back-up Overcurrent Protection	125 A gL, if supply > 100 A		
Technology	GDT MOV		
Max Discharge Current, I_{max}	50 kA 8/20 μ s		
Nominal Discharge Current, I_n	20 kA 8/20 μ s		
Protection Modes	L-L, L-PE		
Status	Change-over contact (Form C dry) 250V~/.0.5A, max 1.5 mm ² (#14AWG) connecting wire Mechanical flag		
Dimensions H x D x W: mm (in)	90 x 68 x 35 (3.54 x 2.68 x 1.38)		90 x 68 x 53 (3.54 x 2.68 x 2.07)
Module Width	2 M		3 M
Enclosure	DIN 43 880, UL94V-0 thermoplastic, IP 20 (NEMA-1)		
Connection	\leq 25 mm ² (#4AWG) stranded \leq 35 mm ² (#2AWG) solid		
Mounting	35 mm top hat DIN rail		
Temperature	-40°C to 80°C (-40°F to 176°F)		
Humidity	0 % RH to 90 % RH		
Approvals	TDS Replaceable module: CE, IEC 61643-1, UL 1449 Ed3 Recognized Component Type 2		
Surge Rated to Meet	ANSI®/IEEE® C62.41-1991 Cat A, Cat B, Cat C ANSI®/IEEE® C62.41.2 Scenario II, Exposure 2, 50 kA 8/20 μ s		
Replacement Module	TDS150M240	TDS150M560	TDS150M277, TDS150M560
Weight: kg (lbs)	0.24 (0.53)	0.24 (0.53)	0.36 (0.78)

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WARNING

ERICO products shall be installed and used only as indicated in ERICO's product instruction sheets and training materials. Instruction sheets are available at www.erico.com and from your ERICO customer service representative. Improper installation, misuse, misapplication or other failure to completely follow ERICO's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death.

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