



MDPV-30/32 PV Fuses



MDPV-30(1000V)



MDPV-32(1500V)



► Overview

The MDPV-30/32 series of photovoltaic fuses are mainly used in the solar photovoltaic power generation DC combiner box to break the line overload and short-circuit current generated by the current feedback of the solar panel photovoltaic modules and inverters that may generate solar energy, thereby protecting For the use of solar photovoltaic panels, fuses can also be optionally used in any other DC circuit for line overload and short circuit protection of electrical components.

► Use environment

The upper limit of ambient air temperature does not exceed +90°C, and the lower limit of air temperature is not lower than -40°C;
The altitude of the installation site does not exceed 3000m;
At a maximum temperature of +40°C, the relative humidity of the air does not exceed 50%, allowing higher humidity at lower temperatures, for example, up to 90% at +25°C. Special measures should be taken for condensation that occasionally occurs due to temperature changes;
In a medium free of explosion hazard, and where there is no sufficient gas or conductive dust to corrode the metal and destroy the insulation;
Pollution degree 3.

► Terminals /connection

Type designation	MDPV-32	MDPV-30
Type designation	---	---
Type of Terminal	Pillar terminal	Pillar terminal
Material/plating of the terminal	Zinc plated Steel	Zinc plated Steel
Material/plating of the washer	Zinc plated Copper	Zinc plated Copper
Material/plating of the screw	Zinc plated Iron	Zinc plated Iron
Type of conductor	Flexible: 2.5mm ² -6mm ² , Copper type; hard wire: 2.5mm ² -6mm ²	
Connectable conductors ISO(mm2) or AWG number metric equivalent (mm2)	2.5mm ² -6mm ²	2.5mm ² -6mm ²
Number of conductors per terminal	1	1
Required preparation of the conductor	Example: No prepared conductor	
Max. Stripping length (mm)	8 mm	8 mm
Tightening torque (N•m)	2Nm, M5	2Nm, M5

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► Technical Parameters

Type designation	MDPV-32	MDPV-30
Ambient temperature	-5C~+40C	-5C~+40C
Contact material	Copper (T2Y)	Copper (T2Y)
Contact form	Form U	Form U
Interrupting medium	Air	Air
- method of operation:		
- suitability for isolation	suitable	suitable
- degree of protection:		
- kind of current	DC	DC
in the case of a.c., number of phases and rated frequency		
-breaking arrangement for fused devices:	Double Break	Double Break
Rated and limiting values, main circuit	/	/
- rated operational voltage Ue (V):	1500V DC	1000V DC
- rated insulation voltage Ui (V):	1800V DC	1200V DC
- rated impulse withstand voltage Uimp (kV):	8kV	6kV
Rated operational voltage Ue	1500 V DC	1000 V DC
Rated operational current Ie	32 A	30 A
Insulation voltage	1800 V	1200 V
Conventional free air thermal current(Ith)	32A	30A
Conventional enclosed thermal current(Ithe)	32A	30A
Utilization category	DC-20A	DC-20A
Rated short-time withstand current	--	--
Rated short-circuit making current	--	--
Conditional short-circuit current	25 kA	20 kA
Short circuit protective device	Tested with fuse-link: YRPV-32 (SOLAR, gPV, 10x85, DC 1500V, 32A, Interrupting Capacity: 25kA)	Tested with fuse-link:YRPV-30 (SOLAR, gPV, 10x38, DC 1000V, 30A, Interrupting Capacity: 20kA)
IP code	Ip20	Ip20
Pollution degree	3	3
Suitability for isolation	-	-