

PIVM PV 600 DS Vseries

- Lightning impulse current and surge arresters type T1+T2 intended for photovoltaic systems (PV).
- Products are designed in a Y-type connection, which is resistant to earth faults of working conductors.
- Particular varistor sectors, connected between the terminals L+, L-, PE, are equipped with internal disconnectors, which are activated when the varistors fail (overheat) and they are able to interrupt the DC current.
- Special construction of the internal disconnector allows installation without a back-up fuse.
- They are installed on the DC side in PV applications with external LPS, where a sufficient distance "s" is not observed.
- Suitable for level LPL III or IV.
- Ensure the equipotential bonding of plus and minus busbars of PV systems and the elimination of transient overvoltage resulting from the atmospheric discharges (including direct lightning strike to the PV system) or switching processes.
- **M** indication specifies a type of construction with removable module.
- **DS** indication specifies a version with remote monitoring.

Type	PIVM PV 600 DS Vseries	
Test class according to EN 61643-11:2012 and EN 61643-31:2019		T1, T2
System		DC
PV system type		Ungrounded
SPD connection type		Y
Maximum continuous operating voltage (+/-)	U_{CPV}	600 V DC
Maximum continuous operating voltage (\pm /PE)	U_{CPV}	600 V DC
Max. voltage of PV generator $U_{OCSTC} \leq U_{CPV} / 1.2$	U_{OCSTC}	500 V
Short-circuit current rating	I_{SCPV}	10 kA
Impulse discharge current for class I test (10/350)	I_{imp}	6.5 kA
Charge	Q	3.25 As
Specific energy for class I test	W/R	10.56 kJ/ Ω
Maximum discharge current (8/20)	I_{max}	40 kA
Nominal discharge current for class II test (8/20)	I_n	20 kA
Voltage protection level at I_n (L+/L-)	U_p	< 2.6 kV
Response time	t_A	< 25 ns
Housing material		Polyamid PA6, UL94 V-0
Degree of protection		IP20
Operating temperature	θ	-40 ÷ 70 °C
Humidity range	RH	5 ÷ 95 %
Minimum cross-section of connected Cu conductors according to IEC 61643-32:2017 (doesn't apply to „V“ connection) for T1	S	6 mm ² (L+, L-) 16 mm ² (PE)
Minimum cross-section of connected Cu conductors according to IEC 61643-32:2017 (doesn't apply to „V“ connection) for T2	S	2.5 mm ² (L+, L-) 6 mm ² (PE)
Clamp fastening range (solid conductor)		2.5 ÷ 35 mm ²
Clamp fastening range (stranded conductor)		2.5 ÷ 25 mm ²
Tightening moment		4 Nm
Installation		On DIN rail 35 mm

Type		PIVM PV 600 DS Vseries
Modular width		3 TE
Operating position		Any
Product placement environment		Internal
SPD failure mode		OCFM
Signalling at the device		Optic
Importance of local signaling		OK – green target FAULT – red target
Remote signalling		Yes
Potential free signal contact (S) (recommended cross-section of remote monitoring max. 1 mm ²)		AC: 250 V / 1.5 A, DC: 250 V / 0.1 A
Modular design		Yes
Article number of spare module		16 072
Lifetime		> 100 000 h
Designed according to standards		
Requirements and test methods for SPDs for photovoltaic installations		IEC 61643-31:2018
Safety of Flammability of Plastic Materials		UL 94
Application standards		
Protection against lightning		IEC 62305:2010
Selection and application principles for SPDs connected to photovoltaic installations		CLC/TS 50539-12:2010
Low-voltage electrical installations – Photovoltaic (PV) systems		HD 60364-7-712:2016
Ordering, packaging and additional data		
Mass	m	300 g
Mass (including the packaging)	m	319 g
Packaging dimensions (H x W x D)		60 x 111 x 87 mm
Packaging value	V	0.58 dm ³
ETIM group		EG000021
ETIM class		EC001457
Customs tariff no.		85363010
EAN code		8590681108161
Art. number		16 071

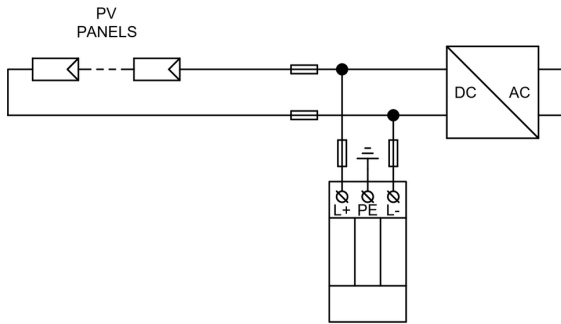


The link in the QR code leads to the online presentation of the **PIVM PV 600 DS Vseries**. There, in addition to the always up-to-date data sheet, you will also find all diagrams and drawings, declarations of conformity, or 2D or 3D models and other necessary materials. For more information, visit www.hakil.com



8590681108161

Application wiring diagram (installation)



Internal diagram

