

AV-150 DC

ALLVIEW SERIES



DESIGN: MODULAR

DEGREE OF PROTECTION: IP65

YEARS OF WARRANTY: 5

UV RESISTANCE: YES

READY TO CONNECT: YES

WEIGHT: 1.500 KG











The connection panel from the Polish manufacturer KENO provides overcurrent protection on the direct current side. It is designed for use in grounded and isolated photovoltaic installations. Due to the high degree of IP protection, outdoor installation is possible. The design of the switchgear is intended for surface mounting. Depending on the equipment, switchboards can perform various functions.

BASIC PARAMETERS DC SIDE	
Number of inputs PV string outputs	1 1
Quantity Type of DC surge arrester Type	1 Phoenix T1/T2
Overcurrent protection	2 x 15A gPV
Connection type	Array MC4 Stäubli

ELECTRICAL AND MECHANICAL PARAMETERS OF THE HOUSING	
Model	PHS 8 T
Number of fields	8
Dimensions of housing without chokes and MC4 (Length Width Height)	98.00 163.00 201.00
Design in accordance with	EN 60670-1, EN 62208
Level of security	IP65
Protection class	II
Rated insulation voltage $U_{\rm i}$	400 V AC, 1500 V DC
The incandescent rod test	650°C
Impact resistance	IK08
UV resistance	YES
Recyclable plastic	bezhalogenowy



AV-150 DC

ALLVIEW SERIES

Working temperature-25°C - +60°CModelTPC 8 TThe number of modules8Dimensions of housing without chokes and MC4 (Length Width Height)98.00 163.00 201.00Design in accordance withEN 62208Level of securityIP65Protection classIIRated insulation voltage U11000 V AC, 1500 V DCThe incandescent rod test960°CImpact resistanceIK07 / IK08UV resistancein accordance with UL 746CFlammability classUL 94-5VA / UL 94-VONEMA standardNEMA 1, 4, 4X, 12Recyclable plasticbezhalogenowyTemperature °C (short-term)-40 120 °CTemperature °C (continuous work)-40 250 °FTemperature °F (short-term)-40 250 °FTemperature °F (continuous work)-40 250 °F			
The number of modules Dimensions of housing without chokes and MC4 (Length Width Height) Design in accordance with EN 62208 Level of security IP65 Protection class II Rated insulation voltage U _i The incandescent rod test UV resistance IK07 / IK08 UV resistance In accordance with UL 746C Flammability class UL 94-5VA / UL 94-V0 NEMA standard NEMA 1, 4, 4X, 12 Recyclable plastic bezhalogenowy Temperature °C (short-term) -40 120 °C Temperature °F (short-term) -40 80 °C Temperature °F (short-term) -40 250 °F	Working temperature	-25ºC - +60ºC	
Dimensions of housing without chokes and MC4 (Length Width Height) Design in accordance with EN 62208 Level of security Protection class II Rated insulation voltage U ₁ The incandescent rod test UV resistance IV resistance IV resistance IV resistance IV SAMA standard NEMA 1, 4, 4X, 12 Recyclable plastic Design in accordance with UL 746C Temperature °C (continuous work) Temperature °F (short-term) P8.00 163.00 201.00 EN 62208 EN 62208 EN 62208 EN 62208 EN 62208 II ME 6200 II ME	Model	TPC 8 T	
Design in accordance with EN 62208 Level of security IP65 Protection class II Rated insulation voltage U ₁ 1000 V AC, 1500 V DC The incandescent rod test 960°C Impact resistance IK07 / IK08 UV resistance IK07 / IK08 UV resistance IV 94-5VA / UL 94-VO NEMA standard NEMA 1, 4, 4X, 12 Recyclable plastic bezhalogenowy Temperature °C (short-term) -40 120 °C Temperature °F (short-term) -40 250 °F	The number of modules	8	
Level of security IP65 Protection class II Rated insulation voltage U _i 1000 V AC, 1500 V DC The incandescent rod test 960°C Impact resistance IK07 / IK08 UV resistance in accordance with UL 746C Flammability class UL 94-5VA / UL 94-V0 NEMA standard NEMA 1, 4, 4X, 12 Recyclable plastic bezhalogenowy Temperature °C (short-term) -40 120 °C Temperature °C (continuous work) -40 80 °C Temperature °F (short-term) -40 250 °F		98.00 163.00 201.00	
Protection class Rated insulation voltage U _i Rated insulation voltage U _i The incandescent rod test 960°C Impact resistance IK07 / IK08 UV resistance in accordance with UL 746C Flammability class UL 94-5VA / UL 94-V0 NEMA standard NEMA 1, 4, 4X, 12 Recyclable plastic bezhalogenowy Temperature °C (short-term) Temperature °C (continuous work) Temperature °F (short-term) -40 250 °F	Design in accordance with	EN 62208	
Rated insulation voltage U _i 1000 V AC, 1500 V DC The incandescent rod test 960°C Impact resistance IK07 / IK08 UV resistance in accordance with UL 746C Flammability class UL 94-5VA / UL 94-V0 NEMA standard NEMA 1, 4, 4X, 12 Recyclable plastic bezhalogenowy Temperature °C (short-term) -40 120 °C Temperature °C (continuous work) -40 80 °C Temperature °F (short-term) -40 250 °F	Level of security	IP65	
The incandescent rod test 960°C Impact resistance IK07 / IK08 UV resistance in accordance with UL 746C Flammability class UL 94-5VA / UL 94-V0 NEMA standard NEMA 1, 4, 4X, 12 Recyclable plastic bezhalogenowy Temperature °C (short-term) -40 120 °C Temperature °C (continuous work) -40 250 °F	Protection class	II	
Impact resistance UV resistance Flammability class UL 94-5VA / UL 94-V0 NEMA standard NEMA 1, 4, 4X, 12 Recyclable plastic Temperature °C (short-term) Temperature °C (continuous work) Temperature °F (short-term) Temperature °F (short-term) -40 250 °F	Rated insulation voltage \mathbf{U}_{i}	1000 V AC, 1500 V DC	
UV resistance in accordance with UL 746C Flammability class UL 94-5VA / UL 94-V0 NEMA standard NEMA 1, 4, 4X, 12 Recyclable plastic bezhalogenowy Temperature °C (short-term) -40 120 °C Temperature °C (continuous work) -40 80 °C Temperature °F (short-term) -40 250 °F	The incandescent rod test	960°C	
Flammability class NEMA standard NEMA 1, 4, 4X, 12 Recyclable plastic Dezhalogenowy Temperature °C (short-term) Temperature °C (continuous work) Temperature °F (short-term) -40 250 °F	Impact resistance	IK07 / IK08	
NEMA standard Recyclable plastic Temperature °C (short-term) Temperature °C (continuous work) Temperature °F (short-term) -40 250 °F	UV resistance	in accordance with UL 746C	
Recyclable plastic bezhalogenowy Temperature °C (short-term) -40 120 °C Temperature °C (continuous work) -40 80 °C Temperature °F (short-term) -40 250 °F	Flammability class	UL 94-5VA / UL 94-V0	
Temperature °C (short-term) -40 120 °C Temperature °C (continuous work) -40 80 °C Temperature °F (short-term) -40 250 °F	NEMA standard	NEMA 1, 4, 4X, 12	
Temperature °C (continuous work) Temperature °F (short-term) -40 80 °C -40 250 °F	Recyclable plastic	bezhalogenowy	
Temperature °F (short-term) -40 250 °F	Temperature °C (short-term)	-40 120 °C	
	Temperature °C (continuous work)	-40 80 °C	
Temperature °F (continuous work) -40 175 °F	Temperature °F (short-term)	-40 250 °F	
	Temperature °F (continuous work)	-40 175 °F	

DC surge arrester used (SPD)

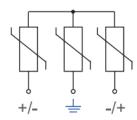
Manufacturer / Model	PHOENIX / VAL-MB-T1/T2 1000DC-PV/2+V
Surge protection	T1 / T2
Idle voltage U _{OCSTC}	≤ 833 V DC
Maximum discharge current I_{max} (8/20) μ s	40 kA
Response time t _A	≤ 25 ns
Testing lightning current (10/350) µs, ładunek	3,125 As
Testing lightning current (10/350) μ s, energia specyficzna	9,77 kJ/Ω
Test lightning current (10/350) μs, wartość szczytowa I _{imp}	6,25 kA
Total current discharged I _{total} (8/20) μs	40 kA
Total current discharged I_{total} (10/350) μs	12,5 kA
Insulation resistance R _{iso}	$>$ 5 G Ω (by 500 V DC)
Nominal discharge current I_n (8/20) μ s	20 kA
Rated load current I_L	50 A
Long-term operating current I _{CPV}	< 70 μΑ



AV-150 DC

ALLVIEW SERIES

Maximum permanent voltage U _{CPV}	1000 V DC
Short circuit resistant I _{SCPV}	2000 A
Residual voltage U _{res}	\leq 3,3 kV (by I _n)
-	≤ 2,5 kV (by 3 kA)
-	≤ 2,7 kV (by 6,25 kA)
-	≤ 2,9 kV (by 10 kA)
-	≤ 3,1 kV (by 15 kA)
-	≤ 4 kV (by 40 kA)
Current of the protective conductor I_{PE}	≤ 70 µA DC
-	≤ 500 µA AC
Protection level U _p	≤ 3,3 kV
Power consumption in standby mode P _C	≤ 70 mVA
Connection configuration	Configuration Y



	Overcurrent protection applied gPV DC
Model	10X38 1000V gPV 15A
Characteristic	gPV
Rated current	15A
Rated voltage	1000V DC
fuse	10,3 x 38 mm