



- DESIGN: MODULAR
- DEGREE OF PROTECTION: IP65
- YEARS OF WARRANTY: 5
- UV RESISTANCE: YES
- READY TO CONNECT: YES
- WEIGHT: 7.200 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	6   6
Quantity   Type of DC surge arrester   Type	6   Phoenix   T1/T2
Overcurrent protection	12 x 15A gPV
Connection type	Array MC4 Stäubli

#### ELECTRICAL AND MECHANICAL PARAMETERS OF THE HOUSING

Model	PHS 36 T
Number of fields	36
Dimensions of housing without chokes and MC4 (Length Width Height)	144.00   319.00   535.00
Design in accordance with	EN 60670-1, EN 62208
Level of security	IP65
Protection class	II
Rated insulation voltage $U_i$	400 V AC, 1500 V DC
The incandescent rod test	650°C
Impact resistance	IK08
UV resistance	YES
Recyclable plastic	bezhalogenowy

Working temperature

-25°C - +60°C

#### DC surge arrester used (SPD)

Manufacturer / Model

PHOENIX/VAL-MS-T1/T21000DC-PV/2+V

Surge protection

T1 / T2

Idle voltage  $U_{OCSTC}$

≤ 975 V DC

Maximum discharge current  $I_{max}$  (8/20) μs

40 kA

Response time  $t_A$

≤ 25 ns

Testing lightning current (10/350) μs, ładunek

2,5 As

Testing lightning current (10/350) μs, energia specyficzna

6,25 kJ/Ω

Test lightning current (10/350) μs, wartość szczytowa  $I_{imp}$

5 kA

Total current discharged  $I_{total}$  (8/20) μs

40 kA

Total current discharged  $I_{total}$  (10/350) μs

5 kA

Insulation resistance  $R_{iso}$

> 5 GΩ (by 500 V DC)

Nominal discharge current  $I_n$  (8/20) μs

15 kA

Rated load current  $I_L$

80 A

Long-term operating current  $I_{CPV}$

< 20 μA

Maximum permanent voltage  $U_{CPV}$

1170 V DC

Short circuit resistant  $I_{SCPV}$

2000 A

Residual voltage  $U_{res}$

≤ 3,5 kV (by  $I_n$ )

-

≤ 2,9 kV (by 5 kA)

-

≤ 3,2 kV (by 10 kA)

-

≤ 3,7 kV (by 20 kA)

-

≤ 4,1 kV (by 30 kA)

-

≤ 4,6 kV (by 40 kA)

Current of the protective conductor  $I_{PE}$

≤ 20 μA DC

-

≤ 350 μA AC

Protection level  $U_p$

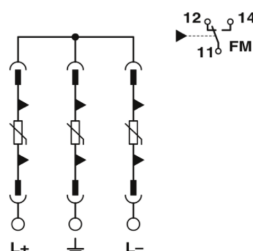
≤ 3,5 kV

Power consumption in standby mode  $P_C$

≤ 25 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