



- DESIGN: MODULAR
- DEGREE OF PROTECTION: IP65
- YEARS OF WARRANTY: 5
- UV RESISTANCE: YES
- READY TO CONNECT: YES
- WEIGHT: 2.900 KG



The connection panel from the Polish manufacturer KENO provides protection against the effects of indirect discharges 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	2 2
Quantity Type of DC surge arrester Type	2 Phoenix T2
Overcurrent protection	4 x 15A gPV
Connection type	Array MC4 Stäubli

ELECTRICAL AND MECHANICAL PARAMETERS OF THE HOUSING

Model	PHS 12 T
Number of fields	12
Dimensions of housing without chokes and MC4 (Length Width Height)	144.00 319.00 259.00
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 1000DC-PV/2+V

Surge protection

T2

Idle voltage U_{OCSTC}

≤ 975 V DC

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

40 kA

Response time t_A

≤ 25 ns

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

40 kA

Insulation resistance R_{iso}

> 5 G Ω (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}

$\leq 3,7$ kV (by I_n)

-

$\leq 3,1$ kV (by 5 kA)

-

$\leq 3,5$ kV (by 10 kA)

-

≤ 4 kV (by 20 kA)

-

$\leq 4,6$ kV (by 30 kA)

-

≤ 5 kV (by 40 kA)

Current of the protective conductor I_{PE}

≤ 20 μA DC

-

≤ 250 μA AC

Protection level U_p

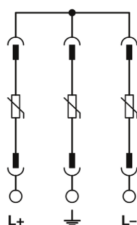
$\leq 3,7$ kV

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