



- DESIGN: MODULAR
- DEGREE OF PROTECTION: IP65
- YEARS OF WARRANTY: 5
- UV RESISTANCE: YES
- READY TO CONNECT: YES
- WEIGHT: 0.950 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 | 1 1 |
| Quantity Type of DC surge arrester Type | 1 Phoenix T2 |
| Connection type | Array MC4 Stäubli |

ELECTRICAL AND MECHANICAL PARAMETERS OF THE HOUSING

| | |
|--|--------------------------|
| Model | PHS 4 T |
| Number of fields | 4 |
| Dimensions of housing without chokes and MC4 (Length Width Height) | 120.00 128.00 201.00 |
| 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 |

