



- DESIGN: MODULAR
- DEGREE OF PROTECTION: IP65
- YEARS OF WARRANTY: 5
- UV RESISTANCE: YES
- READY TO CONNECT: YES
- WEIGHT: 4.300 KG



The connection panel from the Polish manufacturer KENO is intended for supplying power to photovoltaic inverters., Protections against short circuits and overloads., It provides overcurrent protection on the direct current side., It also ensures protection against the effects on the alternating and direct current side. The distribution board should be used 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 Dehn T2
Overcurrent protection	4 x 15A gPV
Connection type	Array MC4 Stäubli

BASIC PARAMETERS AC SIDE

AC Surge Protector Type	Dehn T2
Overcurrent circuit breaker	Noark B25A 3F

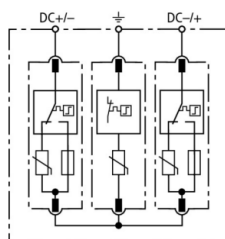
ELECTRICAL AND MECHANICAL PARAMETERS OF THE HOUSING

Model	PHS 24 T
Number of fields	24
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	Dehn DG M YPV SCI 1000
Made in accordance with	PN-EN 50539-11
Surge protection	T2
Maximum PV voltage (U_{CPV})	1000V
Short-circuit withstand (I_{SCPV})	10 kA
Total discharge current (8/20 μ s) (I_{total})	40 kA
Nominal discharge current (8/20 μ s) [(DC+/DC-) --> PE] (I_n)	12,5 kA
Maximum discharge current (8/20 μ s) [(DC+/DC-) --> PE] (I_{max})	25 kA
Voltage protection level (U_p)	≤ 4 kV
Voltage protection level by 5 kA (U_p)	$\leq 3,5$ kV
Response time (t_A)	≤ 25 ns
Working temperature range (TU)	-40°C ... +80°C
Operation / failure indicator	green / red

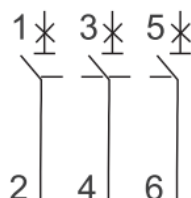


Overcurrent circuit breaker used (MCB) (1)

Manufacturer / Model	Noark / Ex9BN 3P B25
Rated current	25A; 3-F
Rated operational voltage U_e	230/415 V AC
-	72 V DC to the pole (1P, 2P)

- 48 V DC to the pole (3P, 4P)

Minimum voltage	12 V AC/DC
Rated impulse withstand voltage U_{imp} in accordance with IEC 60898-1	6 kV
Rated impulse withstand voltage U_{imp} in accordance with IEC 60947-2	6 kV
Rated short-circuit breaking capacity I_{cn} in accordance with IEC 60898-1	6 kA
Rated short-circuit breaking capacity I_{cn} in accordance with IEC 60947-2	10 kA
Rated voltage of the insulation U_i	690 V AC
Number of poles	3
Frequency	50/60 Hz
Characteristic	B
Design in accordance with	IEC/EN 60898-1, IEC/EN 60947-2
Mechanical durability	20 000 connections
Electrical durability	10 000 connections
Energy limitation class	3
Category of use	A
Feed direction	Any (top or bottom)



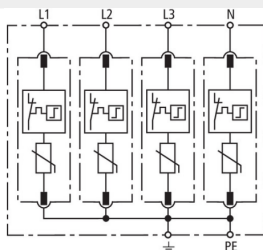
Overvoltage limiter used AC (SPD)

Manufacturer / Model	Dehn DG M TN 275
Surge arrester according to PN-EN 61643-11	Type 2 / klasa II
Energy coordination with the terminal device (≤ 10 m)	Type 2 + Type 3
Rated voltage AC (U_n)	230 / 400 V (50 / 60 Hz)
The greatest voltage of permanent work AC (U_c)	275 V (50 / 60 Hz)
Nominal discharge current (8/20 μ s) (I_n)	20 kA
Maximum discharge current (8/20 μ s) (I_{max})	40 kA
Voltage protection level [L-PE]/[N-PE] (U_p)	$\leq 1,5$ / $\leq 1,5$ kV
Voltage protection level [L-PE] / [N-PE] by 5 kA (U_p)	≤ 1 / ≤ 1 kV
Response time (t_A)	≤ 25 ns
Maximum fuse protection	125 A gG

Short-circuit withstand at maximum fuse (I_{SCCR}) 50 kArms

Occasional surges (TOV) (U_t) - characteristic 335 V / 5 s - durable

Occasional surges (TOV) (U_t) - characteristic 440 V / 120 min - safe damage



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