



- DESIGN: MODULAR
- DEGREE OF PROTECTION: IP66
- YEARS OF WARRANTY: 5
- UV RESISTANCE: YES
- READY TO CONNECT: YES
- WEIGHT: 20.420 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	15 9
Quantity Type of DC surge arrester Type	9 Phoenix T1/T2
Overcurrent protection	30 x 20A gPV
Connection type	Array MC4 Stäubli

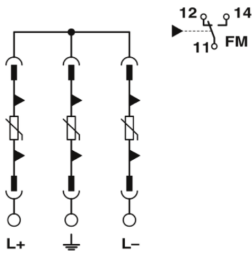
ELECTRICAL AND MECHANICAL PARAMETERS OF THE HOUSING

Model	BF-IP66 84
The number of modules	84
Dimensions of housing without chokes and MC4 (Length Width Height)	300.00 500.00 700.00
Design in accordance with	EN/IEC 62208, EN/IEC 61439-1-4, Dyrektywa RoHS 2011/65/EU Dyrektywa Niskonapięciowa 2006/95/EC (do 1500 VDC)
Level of security	IP66
Protection class	II
Rated insulation voltage U_i	1000 V AC, 1500 V DC
The incandescent rod test	960°C
Impact resistance	IK10 +35°C / IK08 -25°C
UV resistance	UL 508

Flammability class	UL 94-5VA / UL 94-V0
NEMA standard	NEMA 4, 4X, 12, 13
Temperature °C (short-term)	-40 ... 120°C
Temperature °C (continuous work)	-40 ... 80°C
Temperature °F (short-term)	-40 ... 250°F
Temperature °F (continuous work)	-40 ... 175°F

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}	$\leq 3,5$ kV (by I_n)
-	$\leq 2,9$ kV (by 5 kA)
-	$\leq 3,2$ kV (by 10 kA)
-	$\leq 3,7$ kV (by 20 kA)
-	$\leq 4,1$ kV (by 30 kA)
-	$\leq 4,6$ kV (by 40 kA)
Current of the protective conductor I_{PE}	≤ 20 μA DC
-	≤ 350 μA AC
Protection level U_p	$\leq 3,5$ kV
Power consumption in standby mode P_C	≤ 25 mVA
Connection configuration	Configuration Y



Overcurrent protection applied gPV DC

Model	10X38 1000V gPV 20A
Characteristic	gPV
Rated current	20A
Rated voltage	1000V DC
fuse	10,3 x 38 mm