



- DESIGN: MODULAR
- DEGREE OF PROTECTION: IP66
- YEARS OF WARRANTY: 2
- UV RESISTANCE: YES
- READY TO CONNECT: YES
- WEIGHT: 21.000 KG



The connection panel from the Polish manufacturer KENO provides protection against the effects of both indirect and direct discharges. It ensures the function of a disconnect switch and offers 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 Dehn T1/T2
Overcurrent protection	12 x 15A gPV
DC disconnect	(1)32A
Connection type	Array MC4 Stäubli

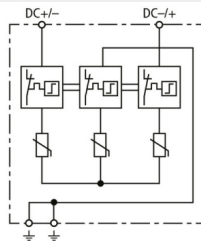
ELECTRICAL AND MECHANICAL PARAMETERS OF THE HOUSING

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	Dehn DCB YPV 1200
Made in accordance with	EN 50539-11
Surge protection	T1 / T2
The greatest tension PV [DC+ -> DC-] (U_{CPV})	≤ 1200 V
The greatest tension PV [DC+/DC- -> PE] (U_{CPV})	≤ 1200 V
Short-circuit withstand (I_{SCP})	10 kA
Nominal discharge current (8/20 μ s) (I_n)	20 kA
Maximum discharge current (8/20 μ s) (I_{max})	40 kA
Total surge current (8/20 μ s) [DC+/DC- -> PE] (I_{total})	40 kA
Total surge current (10/350 μ s) [DC+/DC- -> PE] (I_{total})	12,5 kA
Surge current (10/350 μ s) [DC+ -> PE/DC- -> PE] (I_{imp})	6,25 kA
Voltage protection level [(DC+/DC-) -> PE] (U_p)	< 3,8 kV
Voltage protection level [DC+ -> DC-] (U_p)	< 3,8 kV
Response time (t_A)	≤ 25 ns
Working temperature range (TU)	-40°C ... +80°C
Operation / failure indicator	green / red



Overcurrent protection applied gPV DC

Model	10X38 1000V gPV 15A
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Characteristic	gPV
Rated current	15A
Rated voltage	1000V DC
fuse	10,3 x 38 mm

Zastosowany DC disconnector (1)

Model	Ex9IP 32A
Made in accordance with	IEC/EN 60947-3
Rated voltage	500 (2P), 750 (3P), 1000 (4P)
Rated current	32
Category of use	DC-22B
Rated voltage of the insulation U_i	1000V
Rated impulse withstand voltage U_{imp}	6 kV
Rated short-time withstand current I_{cw} 1s	12x I_e
Rated current short-circuit switched I_{cm} (wartość szczytowa)	20x I_e
Mechanical durability	20 000 connections
Electrical durability	2 000 connections

