EM-181N DC

STANDARD SERIES

- DESIGN: MODULAR
- DEGREE OF PROTECTION: IP65
- **UV RESISTANCE: YES**
- **READY TO CONNECT: YES**
- **WEIGHT: 4.56 KG**

The connection panel provides protection against the effects of both indirect and direct 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	3 | 3
Quantity | Type of DC surge arrester | Type	3 | Noark | T1/T2
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 | 259.00 | 325.00
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	-25ºC – +60ºC

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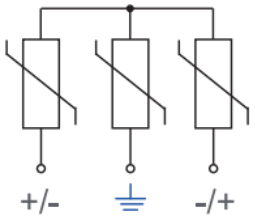
DC surge arrester used (SPD)	
Manufacturer / Model	Noark Ex9UEP1+2 6.25(R) 3P 1000
Made in accordance with	EN 61643-31
Surge protection	PV T1+T2 (Klasa I+II, B+C, Typ 1+2)
Making the insert	MOV (Warystor)
Protection function	thermal
Protection mode	+ → PE
-	− → PE
-	+ ↔ -
Maximum continuous operating voltage U_{CPV}	
+ → PE, − → PE	1000 V
+ ↔ -	1000 V
Frequency	DC
Nominal discharge current I_n (8/20 µs)	20 kA
Maximum discharge current I_{max} (8/20 µs)	40 kA
Surge current I_{imp} (10/350 µs)	
+ → PE, − → PE	6.25 kA
+ ↔ -	6.25 kA
Voltage protection level U_p by I_n	
+ → PE, − → PE	3.8 kV
+ ↔ -	3.8 kV
Leakage current I_{PE} by U_{REF} DC	< 50 µA
Leakage current I_{PE} by U_{REF} AC	< 1 mA
Maximum short-circuit current I_{SCPV}	1000 As
Number of ports	1
LV system type	DC, nieuziemiony system PV
Auxiliary contact (optional)	1 przemienny (CO)
Auxiliary contact, voltage / current	
AC U_{max} / I_{max}	250 V AC / 1 A
DC U_{max} / I_{max}	250 V DC / 0.1 A; 75 V DC / 0.5 A
Connection configuration	Y