

# EM-2N DC

## STANDARD SERIES

- DESIGN: MODULAR
- DEGREE OF PROTECTION: IP65
- UV RESISTANCE: YES
- READY TO CONNECT: YES
- WEIGHT: 2.70 KG



The connection panel 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	2   2
Quantity   Type of DC surge arrester   Type	2   Noark   T2
Connection type	Array MC4 Stäubli

### ELECTRICAL AND MECHANICAL PARAMETERS OF THE HOUSING

Model	PHS 8 T
Number of fields	8
Dimensions of housing without chokes and MC4 (Length Width Height)	120.00   201.00   205.00
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

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### DC surge arrester used (SPD)

Manufacturer / Model	Noark Ex9UEP 20(R) 3P 1000
Made in accordance with	EN 50539-11
Surge protection	T2 (klasa II, C, T2)
Making the insert	MOV (Warystor)
Rated operational voltage $U_n$	1000 V
Maximum continuous operating voltage $U_{CPV}$ + $\rightarrow$ PE, - $\rightarrow$ PE+ $\leftrightarrow$ -	1000 V
Maximum open circuit voltage $U_{OC}$ max	905 V
Frequency	DC
Nominal discharge current $I_n$ (8/20 $\mu$ s)	20 kA
Maximum discharge current $I_{max}$ (8/20 $\mu$ s)	40 kA
Total discharge current $I_{total}$ (8/20 $\mu$ s)	40 kA
Voltage protection level $U_p$ by $I_n$ + $\rightarrow$ PE, - $\rightarrow$ PE + $\leftrightarrow$ -	3.8 kV
Leakage current $I_{PE}$ by $U_{REF}$ DC	< 50 $\mu$ A
Leakage current $I_{PE}$ by $U_{REF}$ AC	< 1 mA
Maximum short-circuit current $I_{SCPV}$	1000 As

