# EM-6N DC

STANDARD SERIES

- DESIGN: MODULAR
- DEGREE OF PROTECTION: IP65
- **UV RESISTANCE: YES**
- **READY TO CONNECT: YES**
- **WEIGHT: 3.28 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 | 2 \| 2 |
| Quantity \| Type of DC surge arrester \| Type | 2 \| Noark \| T1/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) | 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 |

# EM-6N DC

STANDARD SERIES

| 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 |