TECHNICAL DATA SHEET



DCB-NF-2I-1000V-I16A-I_II-2O

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DCB-NF-2I-1000V-I16A-II-2O

Product Description:

Photovoltaic DC Protection Board-Wall Mounted (surface type) IP65. Intended for use with Low voltage DC Strings up to 1000Vdc and a Max Current of 16A per String. This product caters for the 2 individually connected PV strings (2 x MMPT type inverters). Each string individually Isolatable by means of built in miniature circuit breaker. Each String also has an integrated Surge Protection Device – individually providing protection to each string. For ease of installation, PV String connection is via original Multi-Contact MC-4 Connectors for input and output connections. A M6 brass provided for Surge protection device cable connection.



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Picture shown for illustrative and representative purposes only and may differ from actual Product

| Technical Datasheet | | |
|--|--|------------------------------|
| | | |
| Item Number | DCB-NF-2I-1000V-I16A-II-2O | DCB-NF-2I-1000V-I16A-I_II-20 |
| Max. Open Circuit Voltage voc * | 1000 Vdc | 1000 Vdc |
| Max Current - On Load Switching** | 16Adc / String | 16 Adc / String |
| Number of individual Strings | 2 | 2 |
| Number of Inputs | 2 | 2 |
| Number of Outputs | 2 | 2 |
| DC String Connection Input*** | 2 x MC-4 sets | 2 x MC-4 sets |
| DC string Connection Output*** | 2 x MC-4 sets | 2 x MC-4 sets |
| Earth Connection | M6 Brass Earth Stud | M6 Brass Earth Stud |
| Surge Protection Device**** | DEHN DC - Type 2 | DEHN DC - Type 1 & 2 |
| SPD Short Circuit Current Rating- (I SCPV) | 10kA | 1000 A |
| SPD Total Discharge Current (8/20μs) (I total) | 40kA | |
| Nominal discharge current (8/20 μs) [(DC+/DC-)> PE] (In) | 12,5kA | 15kA |
| Max. discharge current (8/20 μs) [(DC+/DC-)> PE] (Imax) | 25kA | 30kA |
| Voltage protection level (UP) | ≤ 2.5 kV | 3kV |
| Voltage protection level at 5 kA (U _P) | ≤ 2 kV | |
| Response time (t _A) | ≤ 25 ns | ≤ 25 ns |
| Total discharge current (10/350 µs) [DC+/DC> PE] (Itotal) | | 12,5kA |
| Lightning impulse current (10/350 µs) [DC+ -> PE/DC> PE] (limp) | | 6,25kA |
| Specific energy [DC+ -> PE/DC> PE] (W/R) | | 9,76 kJ/Ohms |
| Operating state / fault indication | Green / Red | Green / Red |
| Enclosure ***** | PVC with Smokey Swing Door | PVC with Smokey Swing Door |
| IP Rating | IP65 | IP65 |
| Double Insulated | Yes | Yes |
| Dimension (H X W X D) | 286 x 418 x 148 mm | 286 x 418 x 148 mm |
| UV Protection | YES | YES |
| Halogen Free | YES | YES |
| Resistance to Impact | IK08 | 1K08 |
| Glow Wire Resistance- Enclosure Only | 650 °C | 650 °C |
| Max. Operating Voltage | 1000Vac / 1500Vdc | 1000Vac / 1500Vdc |
| Assembly General Operating Temperature | -10°C to +40°C | -10°C to +40°C |
| Assembly deficial operating reinperature | 10 0 10 140 0 | 10 0 10 140 0 |
| Notes: | | |
| * Please co-ordiante Max open circuit voltage of PV String with the inverter MPP1 | Max Voc. | |
| ** On Load Switching permitted, however, if possible romove load first by switchin | g inverter off - Circuit Breaker may also trip | in abnomal conditions |
| *** Please use protective caps for unused MC-4 Connectors- Use MC-4 In-Line conn | ectors for PV String field wire connection | |
| **** SPD Type 2 and Type 1 & 2-according to EN 50539-11 | | |
| ***** UNE-EN62208 and IEC 62214 | | |
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NB: All equipment to be installed and operated by Qualified Personnel only.

