

TECHNICAL DATA SHEET



DCB-NF-6I-1000V-I16A-I_II-60

3 MPPT VERSION

Product Description: HUAWEI -SUN2000-50KTL-

Photovoltaic DC Protection Board-Wall Mounted (surface type) IP65. Intended for use with HIGH voltage DC Strings up to 1000Vdc and a Max Current of 16A per String. This product caters for the 6 individually connected PV strings Isolatable by means of built in DC isolator. One DC Surge protective device per MPPT – individually providing protection to each MPPT. For ease of installation, PV String connection is via original Multi-Contact MC-4 Connectors for input and output connection. A M6 Earth Stud is Provided for earth connection.



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

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| Technical Datasheet | |
|--|---|
| Item Number- 3 MPPT VERSION | DCB-NF-6I-1000V-I16A-I-II-6O |
| Max. Open Circuit Voltage V_{oc} * | 1000 Vdc |
| Max Current - On Load Switching** | 16 Adc / String |
| Number of individual Strings | 6 |
| Number of Inputs | 6 |
| Number of Outputs | 6 |
| DC String Connection Input*** | 6 x MC-4 set |
| DC string Connection Output*** | 6 x MC-4 set |
| Earth Connection | M6 Brass Earth Stud |
| Surge Protection Device**** | CITEL TYPE 1 & 2 |
| SPD Short Circuit Current Rating- (I_{SCP}) | 1000 A |
| SPD Total Discharge Current (8/20 μ s) (I_{total}) | 60kA |
| Nominal discharge current (8/20 μ s) [(DC+/DC-) --> PE] (I_n) | 15kA |
| Max. discharge current (8/20 μ s) [(DC+/DC-) --> PE] (I_{max}) | 40kA |
| Voltage protection level (U_p) | 2.6/4.6kV |
| Total discharge current (10/350 μ s) [DC+/DC- -> PE] (I_{total}) | 10kA |
| Lightning impulse current (10/350 μ s) [DC+ -> PE/DC- -> PE] (I_{imp}) | 5kA |
| Operating state / fault indication | Green / Red |
| Enclosure***** | PVC with Smokey Swing Door |
| IP Rating | IP65 |
| Double Insulated | Yes |
| Dimension (H X W X D) | 436 x 418 x 148 mm |
| UV Protection | YES |
| Halogen Free | YES |
| Resistance to Impact | IK08 |
| Glow Wire Resistance- Enclosure Only | 650 °C |
| Max. Operating Voltage | 1000Vac / 1500Vdc |
| Assembly General Operating Temperature | -10°C to +40°C |
| Notes: | |
| * | Please co-ordiante Max open circuit voltage of PV String with the inverter MPPT Max Voc. |
| ** | On Load Switching permitted, however, if possible remove load first by switching inverter off - Circuit Breaker may also trip in abnomal conditions |
| *** | Please use protective caps for unused MC-4 Connectors- Use MC-4 In-Line connectors for PV String field wire connection |
| **** | SPD Type 2 and Type 1 & 2- according to EN 50539-11 |
| ***** | UNE-EN62208 and IEC 62214 |

NB: All equipment to be installed and operated by Qualified Personnel only.

