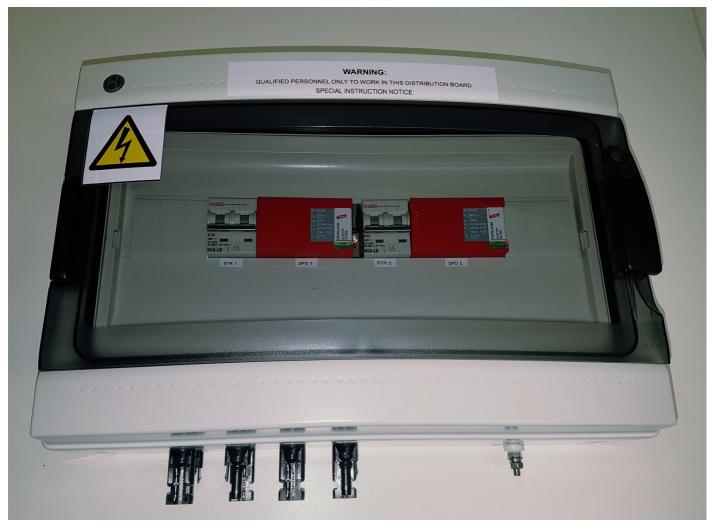
TECHNICAL DATA SHEET



DCB-NF-1I-1000V-I16A-I_II-10
DCB-NF-1I-1000V-I16A-II-10

Product Description:

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 1 individually connected PV string Isolatable by means of built in miniature circuit breaker. Each String also has a DC Surge protective 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 connection. A M6 Earth Stud is Provided for earth 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-1I-1000V-I16A-II-10	DCB-NF-1I-1000V-I16A-I-II-10
Max. Open Circuit Voltage <i>voc</i> *	1000 Vdc	1000 Vdc
Max Current - On Load Switching**	16Adc / String	16 Adc / String
Number of individual Strings	1	1
Number of Inputs	1	1
Number of Outputs	1	1
DC String Connection Input***	1 x MC-4 set	1 x MC-4 set
DC string Connection Output***	1 x MC-4 set	1x MC-4 set
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 \u03c4s) [(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)	≤2.5 kV	7 N V
Response time (ta)	≤ 25 ns	≤ 25 ns
Total discharge current (10/350 µs) [DC+/DC> PE] (Itotal)	<u>≤ 25 IIS</u>	
		12,5kA
Lightning impulse current (10/350 μs) [DC+ -> PE/DC> PE] (limp) Specific energy [DC+ -> PE/DC> PE] (W/R)		6,25kA 9,76 kJ/Ohms
	Croon / Dod	
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)	231 x 238 x 118 mm	231 x 238 x 118 mm
IIIV Protection	YES	
UV Protection		YES
Halogen Free	YES	YES
Halogen Free Resistance to Impact	YES IK08	YES IK08
Halogen Free Resistance to Impact Glow Wire Resistance- Enclosure Only	YES IK08 650 °C	YES IK08 650 °C
Halogen Free Resistance to Impact Glow Wire Resistance- Enclosure Only Max. Operating Voltage	YES IK08 650 °C 1000Vac / 1500Vdc	YES IK08 650 °C 1000Vac / 1500Vdc
Halogen Free Resistance to Impact Glow Wire Resistance- Enclosure Only	YES IK08 650 °C	YES IK08 650 °C
Halogen Free Resistance to Impact Glow Wire Resistance- Enclosure Only Max. Operating Voltage	YES IK08 650 °C 1000Vac / 1500Vdc	YES IK08 650 °C 1000Vac / 1500Vdc
Halogen Free Resistance to Impact Glow Wire Resistance- Enclosure Only Max. Operating Voltage Assembly General Operating Temperature	YES IK08 650 °C 1000Vac / 1500Vdc -10°C to +40°C	YES IK08 650 °C 1000Vac / 1500Vdc
Halogen Free Resistance to Impact Glow Wire Resistance- Enclosure Only Max. Operating Voltage Assembly General Operating Temperature	YES IK08 650 °C 1000Vac / 1500Vdc -10°C to +40°C	YES IK08 650 °C 1000Vac / 1500Vdc -10°C to +40°C
Halogen Free Resistance to Impact Glow Wire Resistance- Enclosure Only Max. Operating Voltage Assembly General Operating Temperature Notes: Please co-ordinate Max open circuit voltage of PV String with the inverter MPPTI	YES IK08 650 °C 1000Vac / 1500Vdc -10°C to +40°C	YES IK08 650 °C 1000Vac / 1500Vdc -10°C to +40°C
Halogen Free Resistance to Impact Glow Wire Resistance- Enclosure Only Max. Operating Voltage Assembly General Operating Temperature Notes: Please co-ordiante Max open circuit voltage of PV String with the inverter MPPTI On Load Switching permitted, however, if possible romove load first by switching	YES IK08 650 °C 1000Vac / 1500Vdc -10°C to +40°C	YES IK08 650 °C 1000Vac / 1500Vdc -10°C to +40°C
Halogen Free Resistance to Impact Glow Wire Resistance- Enclosure Only Max. Operating Voltage Assembly General Operating Temperature Notes: Please co-ordiante Max open circuit voltage of PV String with the inverter MPPTI On Load Switching permitted, however, if possible romove load first by switching Please use protective caps for unused MC-4 Connectors- Use MC-4 In-Line conne	YES IK08 650 °C 1000Vac / 1500Vdc -10°C to +40°C	YES IK08 650 °C 1000Vac / 1500Vdc -10°C to +40°C

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

