

Technical Datasheet		
Item Number	DCB-NF-2I-500V-I16-II-2O	DCB-NF-2I-500V-I16-I_II-2O
Max. Open Circuit Voltage V_{oc} *	500 Vdc	500 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_{SCP})	10kA	1000 A
SPD Total Discharge Current (8/20 μ s) (I_{total})	40kA	
Nominal discharge current (8/20 μ s) [(DC+/DC-) --> PE] (I_n)	12,5kA	15kA
Max. discharge current (8/20 μ s) [(DC+/DC-) --> PE] (I_{max})	25kA	30kA
Voltage protection level (U_p)	≤ 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 μ s) [DC+/DC- -> PE] (I_{total})		12,5kA
Lightning impulse current (10/350 μ s) [DC+ -> PE/DC- -> PE] (I_{imp})		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	IK08
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
Notes:		
*	Please co-ordiante Max open circuit voltage of PV String with the inverter MPPT Max Voc.	
**	On Load Switching permitted, however, if possible romove 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.