TECHNICAL DATA SHEET



DCB-NF-4I-1000V-I63A_I_II-10
DCB-NF-4I-1000V-I63A_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 9A per String. This product caters for the 4 individually connected PV strings. Each String utilises a fuse on the positive and terminal on the negative string and is isolatable by build in dc circuit breaker and DC Surge protective device —providing protection. For ease of installation, PV String connection is via original Multi-Contact MC-4 Connectors for input and M20 compression gland for output. A M6 Earth Stud is Provided for earth connection.



Version: Rev 1

Copyright: ©Segen Solar (Pty) Ltd-2018

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 voc *	1000 Vdc	1000 Vdc
Max Current - On Load Switching**	16Adc / String	16 Adc / String
Number of individual Strings	4	4
Number of Inputs	4	4
Number of Outputs	1	1
DC String Connection Input***	4 x MC-4 set	4 x MC-4 set
DC string Connection Output***	1 x set M20 compression gland	1 x set M20 compression gland
Earth Connection	M6 Brass Earth Stud	M6 Brass Earth Stud
Surge Protection Device****	CITEL DC - Type 2	CITEL DC - Type 1 & 2
SPD Short Circuit Current Rating- (I SCPV)	1000A	1000 A
SPD Total Discharge Current (8/20µs) (I total)	40kA	60kA
Nominal discharge current (8/20 μs) [(DC+/DC-)> PE] (In)	15kA	15kA
Max. discharge current (8/20 μs) [(DC+/DC-)> PE] (I _{max})	-	40kA
Voltage protection level (UP)	4.6kV	2.6/4.6kV
Total discharge current (10/350 μs) [DC+/DC> PE] (Itotal)	-	10kA
Lightning impulse current (10/350 μ s) [DC+ -> PE/DC> PE] (limp)		5kA
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		

Version: Rev 1

Copyright: ©Segen Solar (Pty) Ltd-2018

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

