TECHNICAL DATA SHEET



DCB-F12A-2I-600V-I32A-I_II-10 DCB-F12A-2I-600V-I32A-II-10

Product Description:

Photovoltaic DC Protection Board-Wall Mounted (surface type) IP65. Intended for use with Low voltage DC Strings up to 600Vdc and a Max Current of 16A per String. This product caters for the 2 individually connected PV strings Isolatable by means of built in miniature circuit breaker. Each String also has a DC PV Fuse Holder – individually providing protection to each string. For ease of installation, PV String connection is via original Multi-Contact MC-4 Connectors for input and Compression Glands 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-F12A-2I-600V-I32A-II-10	DCB-F12A-2I-600V-I32A-I-II-1
Max. Open Circuit Voltage voc *	600 Vdc	600 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	1	1
DC String Connection Input***	2 x MC-4 sets	2 x MC-4 sets
DC string Connection Output***	1 x PVC COMP GLAND SET	1 x PVC COMP GLAND 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	100011
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 (U _P)	≤ 2.5 kV	3kV
Voltage protection level at 5 kA (U _P)	≤2 kV	Sit V
Response time (ta)	≤ 25 ns	≤ 25 ns
Total discharge current (10/350 μs) [DC+/DC> PE] (Itotal)	2 23 113	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 Doo
IP Rating	IP65	IP65
Double Insulated	Yes	Yes
Double insulated Dimension (H X W X D)	286 x 418 x 148 mm	286 x 418 x 148 mm
JV Protection	YES	YES
Halogen Free	YES	YES
Resistance to Impact	1K08 650 °C	IK08 650 °C
Glow Wire Resistance- Enclosure Only		
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 switchin	g inverter off - Circuit Breaker may also trip i	n 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.

