

DC Combiner Box - SEDCCPB-F150V/II-1I-1O/32AM

1-in-1-out DC combiner box rated for 150Vdc which utilizes a 16A DC fuse on the input and a 32A DC isolation circuit breaker on the output.

Images



Figure 1: Picture shown for illustrative and representative purposes only and may differ from actual Product

Inverter Models Applicable

- Axpert- 5KVA MKS1/KING
- Growatt- SPF 5000TL HVM
- Kodak- OG Plus 5.48
- Similar (Check datasheet of inverter)

Usage and application

- Photovoltaic DC Protection Board-Wall Mounted (surface - type) IP65.
- Intended for use with low voltage DC Strings up to 150Vdc and a Max Current of 9A per String.
- This product caters for 1 individually connected PV strings isolatable by means of built-in miniature circuit breaker.
- Each String utilises a fuse on the positive and a terminal on the negative string.
- Included is a 150V Type 2 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. DC Isolation is achieved via a 32A DC Miniature circuit breaker.

Specifications

Technical Datasheet	
Item Number	SEDCCPB-F150V/II-1I-10/32AM
Mx. Open Circuit Voltage V_{oc}^*	150Vdc
Max Current - On Load Switching **	16Adc/ String
Number of individual strings	1
Number of inputs	1
Number of Outputs	1
DC String Connection Input ***	1 x MC-4 set
DC string Connection Output ***	1X M20 Compression gland
Earth Connection	M6 Brass Earth stud
Breather Plug (M12)	Incorporated
Surge Protection Device ****	Type 2
Nominal discharge current (8/20 μ s) [(DC+/DC-) --> PE] (I_n)	20kA
Max. discharge current (8/20 μ s) [(DC+/DC-) --> PE] (I_{max})	40kA
Operating state / fault indication	Green / Red
Enclosure *****	PVC with Smokey Swing Door
IP Rating	IP65
Double Insulated	Yes
Dimension (H X W X D)	263 x 314 x 143mm
UV Protection	YES
Halogen Free	YES
Resistance to Impact	IK08
Glow Wire Resistance- Enclosure Only	650 °C
Max. Operating Voltage rating of enclosure	1000Vac / 1500Vdc
Assembly General Operating Temperature	-10°C to +40°C

Notes:

* Please co-ordinate 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 abnormal conditions

*** Please use protective caps for unused MC-4 connectors- Use MC-4 Line connectors for PV String field wire connection

**** SPD Type 2 According to EN 50539-11

***** UNE-EN62208 and IEC 62214

NOTE! The ACDB has Reg and Gren LED pilot lights to show the source of the power

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