

DC Combiner Box – SEDCB-F600V/I_II-6I-2O/32AM

6-in-2-out DC combiner box rated for 600Vdc which utilizes six 16A DC fuses on the input and two 32A DC isolation circuit breakers on the output.

Images



Inverter Models Applicable

- Axpert- MKS II 5K / VM III 5000-48
- Sunsynk- 5K/8K
- Kodak- H 5.0 / OG X5.48
- 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 600Vdc and a Max Current of 16A per String.

- This product caters for the 6 individually connected PV strings Isolatable by means of built-in miniature circuit breaker.
- Each String utilises a fuse on the positive and terminal on the negative string.
- Included is a 600V Type 1&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 compression glands output connection.
- 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	SEDCB-F600V/I_II-6I-2O/32AM
Mx. Open Circuit Voltage V_{oc}^*	600Vdc
Max Current - On Load Switching **	16Adc/ String
Number of individual strings	6
Number of inputs	6
Number of Outputs	2
DC String Connection Input ***	6 x MC-4 set
DC string Connection Output ***	2 x PVC COMP GLAND SET
Earth Connection	M6 Brass Earth Stud
Breather Plug (M12)	Incorporated
Surge Protection Device ****	Type 1 & 2
Nominal discharge current (8/20 μ s) [(DC+/DC-) --> PE] (I_n)	15kA
Max. discharge current (8/20 μ s) [(DC+/DC-) --> PE] (I_{max})	30kA
Voltage Protection Level (U_p)	3kV
Voltage Protection Level at 5kA (U_p)	-
Response time (t_A)	≤ 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
Enclosure *****	PVC with Smokey Swing Door
IP Rating	IP65
Double Insulated	Yes
Dimension (H X W X D)	286 x 418 x 148mm
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.