



## **TECHNICAL DATA SHEET**

SEACDB-1000A-440KW-1-0

### AC PROTECTION BOX

#### **Product Description:**

Photovoltaic AC Protection Board- Floor Mounted (surface - type) IP65. Intended for use with high voltage AC connection up to 400Vac and a Max Current of 1000A. This product caters for 4 inputs and 1 output. Included is a 1000V Type 2 AC Surge protective device –providing protection. For ease of installation, connection is via compression glands for input and output. A M6 Earth stud is Provided for earth connection. AC Isolation is achieved via a 1000A AC Moulded case circuit breaker. The AC protection box is designed to protect the input to the inverter with the built in AC surge protection device and to protect the inverter from potential cable fault that may occur between the output of the inverter and the point of common coupling with the grid. The AC combiner board is also fitted with a power quality meter that displays information about the system such as grid voltage, grid frequency, phase and system current (inverter output), power factor, active and reactive power values. The system can also be ordered without the power quality meter, although for commercial applications the information available from the power meter is of great use in analyzing system performance



## Technical Datasheet

Item Number	SEACDB-1000A-440KW-1-0
Inverter connection	5 Wire-L1-L1-L3-N-E
Max. Open Circuit Voltage Voc*	400VAC
Max Input Current	250A
Max Output Current	1000A
AC Isolation/ Protection Device	4P-1000A
Number of Inputs	4
Number of Outputs	1
AC Connection Input	Compression Gland
AC Connection Output	Compression Gland
Earth Connection	M6 Earth Stud
Breather Plug ( M12 )	Incorporated
<b>Surge Protection Device**</b>	<b>Type 2</b>
Nominal discharge current (8/20 $\mu$ s) [(AC+/AC-) --> PE] (In)	20kA
Max. discharge current (8/20 $\mu$ s) [(AC+/AC-) --> PE] (Imax)	40kA
Operating state / fault indication	Green / Red
Enclosure***	B26 Orange Metal Enclosure
IP Rating	IP65
Double Insulated	Yes
Dimension (H X W X D)	2100 x 1200 x 600mm
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 grid with the inverter MPPT Max Voc.
- \*\* 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.**

