

TECHNICAL DATA SHEET

ACDB-ARENB-25A

Product Description:

The Earth Neutral Bridge Box is an essential component for the safe operation of back up and hybrid solar systems up to 5kWAC Back up port power rating

The function is replacing the earth neutral bridge that exists when normal power is supplied from the utility.

The ACDB-ARENB-25A automatically creates a temporary earth/neutral bridge when inverter goes to back up mode due to loss of grid, thus avoiding the forming of earth ground loops

Once the backup or hybrid inverter goes into back up mode and disconnects from the utility the existing bridge is lost. This has two side effects that require attention:

1. When a measurement is taken between the Earth and Neutral Conductor on the backup output circuit and elevated neutral voltage is measured.
2. With the Earth/Neutral bridge, any earth leakage device connected in the output circuit does not function correctly

It is essential this ACDB-ARENB-25A is installed between the inverter backup out and the output distribution DB



Back Up Inverter



Earth Neutral Bridge Box



Backup output AC Box

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

Technical Data Sheet	
Product Code	ACDB-ARENB-25A
Max Operating Voltage	230Vac
Max Inverter Output Current (Back Up)	25A
Enclosure Door	Polycarbonate- Smokey grey
IP Rating	IP65
Double Insulated	Yes
Dimensions	231 x 166 x 113mm
UV Protection	Yes
Halogen Free	Yes
Resistance to Impact	IK08
Glow Wire Resistance -Enclosure Only	650°C
Enclosure Voltage Rating	1000Vac
Operating Temperature	-10°C to +40°C
Relay Coil Voltage	230Vac
Relay Contact Rating	10A-AC
Contact Configuration	1 x N/O & 1 x N/C
Replaceable Relay	Yes