

Earth Neutral Bridge Box – SEACDB-ENBAR-25AM

Essential component needed for the safe operation of backup and Hybrid solar systems. Function is replacing Earth Neutral bridge when system is in backup mode. Makes the Earth Leakage to operate correctly on the output of the inverter during backup operation

Images



Usage and application

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 is 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:

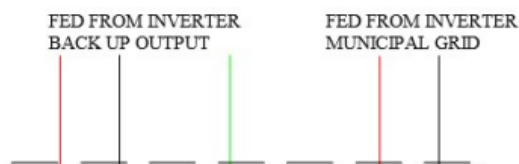
1. When a measurement is taken between the Earth and Neutral Conductor on the backup output circuit and elevated neutral voltage is measured.
2. With the Earth/Neutral bridge, any earth leakage device connected in the output circuit does not function correctly.

It is essential this Earth Neutral Bridge Box is installed between the inverter backup out and the output distribution board.

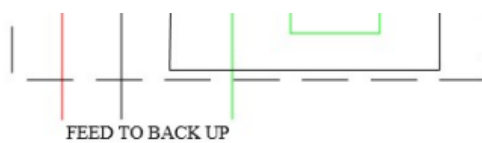
Specifications

Technical Datasheet	
Item Number	SEACDB-ENBAR-25AM
Max Operating Voltage	230Vac
Max Inverter Output Current (Back Up)	25A
Enclosure Door	Polycarbonate-Smokey grey
IP Rating	IP65
Dimensions	231x166x113mm
UV Protection	Yes
Halogen Free	Yes
Resistance to Impact	IK08
Glow Wire Resistance – Enclosure Only	650°C
Enclosure Voltage Rating	1000Vac
Operating Temperature	-10° 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

Wiring Diagram



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