

AC Protection Box – SEACDB-630A-300KW/5I-10-ENCL-PE

The AC Protection box is to be used as the protection between 5 grid-tied inverters and the utility grid. The Protection box consists of 5 input rated at 125A and a 630A output breaker.

Images



Usage and application

The AC Protection box is to be used as the protection between 5 x Huawei 60 kW Grid Connected inverter and the utility grid. 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 any 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 may also be ordered without the power quality meter, although for commercial application the information available from the power meter is of great use in analysing system performance.

Specifications

| Technical Datasheet | | |
|--|-----------------------------|---------------------------------|
| Item Number | | SEACDB-630A-300KW/5I-10-ENCL-PE |
| Inverter Connection | | 5 Wire-L1-L2-L3-N-E |
| Recommended inverter Cable size (inverter input) | | 35mm ² /core |
| Circuit Breaker Current Rating - Inverter Input | Non-Adjustable | 125A |
| Circuit Breaker Current Rating -Main Output | 20% Adj-Thermal/Magnetic | 630A |
| Number of inverter Inputs | | 5 |
| Number of Outputs | | 1 |
| Enclosure Material | | Mild Steel |
| Enclosure Material Thickness | | 1.6mm |
| Enclosure Colour | | B26 Orange |
| Mounting | Wall | 1 x set of 4 wall brackets |
| Door opening | Hinged on side | Lever Lock |
| Internal Cover Plate | White Removable | Yes |
| Internal Components pre-wired | | Yes |
| Panel AC Fault level | | 25kA |
| System Voltage | | 400V |
| IP Rating | | IP65 |
| Earth Stud | | Yes |
| Dimensions | H/W/D (mm) | 900 x 810 x 250 |

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