



Engineering Specification Sheet
String Inverter Disconnect Combiner Box with Dual MPPT Outputs

GENERAL INFORMATION

- o **Description:** 2 Circuit Dual Fusing String Inverter Combiner box available with 45A @ 600Volts Load Break Disconnect Switch.

Dimensions:

- o NEMA 4X Fiberglass (Optional):
- o NEMA 4 Steel (Optional):
- o NEMA 4X Stainless Steel (Optional)

Part number

PR-2CIR-45AD-Z*xZ*-Y*A-FG
 PR-2CIR-45AD-Z*xZ*-Y*A-S
 PR-2CIR-45AD-Z*xZ*-Y*A-SS

Z* = Configured Number of Ungrounded Strings
 Y* = Fuse size (fuses supplied)
 Fusing Both POS & NEG Inputs

**Enclosure sizes will vary depending on configured string count and disconnect amperage.

- o **Fuse holders:** finger safe fuse holders. 30A, 1000VDC rated.

TECHNICAL SPECIFICATIONS

- o **Disconnect Switch:** 45A @ 600VDC UL508i/IEC 60947-3 Compact Load Break Disconnects
- o **Input Wires:** Fuses: Z* total, 6-14AWG, 90°C, Cu Wire
- o **Output Wires:** To inverter: 1 ea., #14-3AWG, 90°C, Cu/Al Wire
Dual term block output available on request
- o **Ground Terminals:** Two Grounding Bars,(12) each 4-14AWG, 90°C, Cu/Al Wire
- o **Operating Temperature, Humidity:** -10°C to +60°C (15°F to 130°F), 0-100% Humidity
- o **Busbars:** C11000 Alloy (Copper), electroplated to prevent corrosion. Rated continuous duty.

FEATURES

- o Labeling: Outdoor rated vinyl labels or silk screening.
- o Mounting panel: Custom Galvanized steel
- o Door: Provisions for Pad-lock

OPTIONS

- o **Surge Protection:** Pre-wired 1000VDC rated transient surge suppressor.
- o **Pigtails:** Pre-Wired POS and NEG pigtails with female and male H4 Connectors terminated thru HEYCO cord grips.
- o **Monitoring:** String current monitors capable of monitoring up to 24 strings at +/- 1% accuracy. 2 Wire, Modbus RTU output.
- o **Output Lugs:** Optional terminal block outputs provide numerous wire configurations. Please specify your needs accordingly.

APPROVALS

- o Listed to UL1741, CAN/CSA C22.2 Listed @ 600Volts



AMtec Solar
 7079 Commerce Circle, Pleasanton CA 94588

www.amtecsolar.com

510.887.2289

Example p/n PR-2CIR-45AD-4x4DF-15A-FG

