

800 Vac 3:1 AC Combiner Solution for CPS Inverters



The CPS 800 Vac 3:1 AC Combiner Box is designed for CPS 250/275 kW three-phase string inverters to optimize system design, installation, and wire management. The units combine the output of (3) CPS 250/275 kW inverters allowing a cost-effective solution for simplifying system designs and minimizing AC wire losses. This solution enables savings on labor and material costs by reducing the amount of wires needed to connect CPS string inverters to the grid.

Solutions Supplier

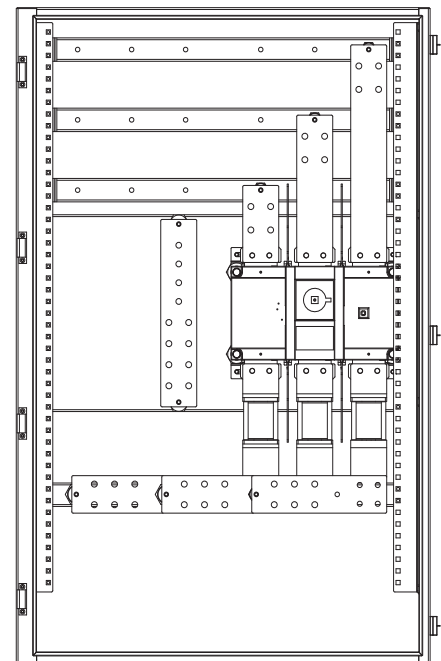
CPS can supply inverter and BOS equipment for 1500 V applications, which enables advantages for project logistics, shipment, and warranty management.

Decreased Wiring Costs

Combining CPS inverters with an AC Combiner Box reduces the amount of wires needed to connect the PV system to the grid.

Optimized Design

The AC Combiner Box is designed specifically for use with CPS 250/275 kW inverters.



Internal View of AC Combiner Box



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|------------------------------|--|
| Model Name | CPS DPA03-800V/US |
| Input Parameters | |
| Number of input circuits | 3 |
| OCPD type | Fuse |
| Disconnect | Yes |
| Compatible inverter(s) | CPS SCH275KTL-DO/US-800 |
| Rated voltage | 800 Vac |
| Rated input current | 600 A |
| Input conductor size | 300-500 kcmil CU/AL (1 or 2 sets) |
| Input conduit knockout size | Removable bottom plate |
| Output Parameters | |
| Rated output current | 600 A |
| Output conductor size | 600-750 kcmil CU/AL (up to 4 sets) |
| Output conduit knockout size | Removable bottom plate |
| Interrupting capacity | 65 kA |
| Disconnect rating | 800 A |
| Output fuse rating | 1000 A |
| Mechanical | |
| Dimensions (H x W x D) | 55 x 36.2 x 14.75 in (1400 x 920 x 375 mm) |
| Weight | 264 lbs / 120 kg |
| Padlockable enclosure (LOTO) | Yes |
| Grounding busbar | Yes |
| Breather vent | Yes |
| Environment | |
| Enclosure protection degree | NEMA Type 3R |
| Operating temperature range | -22°F to +140°F / - 30°C to +60°C (derating from +104°F / +40°C) |
| Operating humidity | 0% to 95%, non-condensing |
| Operating altitude | 8202 ft / 2500 m (no derating) |
| Safety | |
| Certifications and standards | UL 1741, CSA C22.2 NO.107.1-16 |
| Warranty | |
| Standard | 2 years |

