

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 up to (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

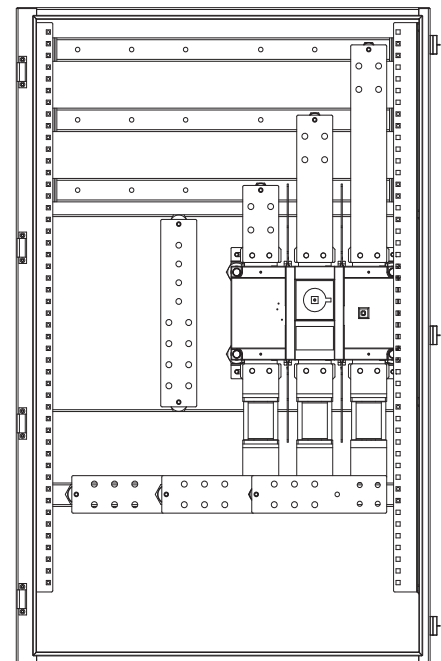
CPS can supply inverter and BOS equipment for 1500 V applications, which enables advantages for project logistics, shipment, and warranty management.

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



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

