

600 Vac 4:1 AC Combiner Solution for CPS Inverters



The CPS 600 Vac 4:1 AC Combiner Box is designed for CPS 100/125 kW three-phase string inverters to optimize system design, installation, and wire management. The units combine the output of up to (4) CPS 100/125 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

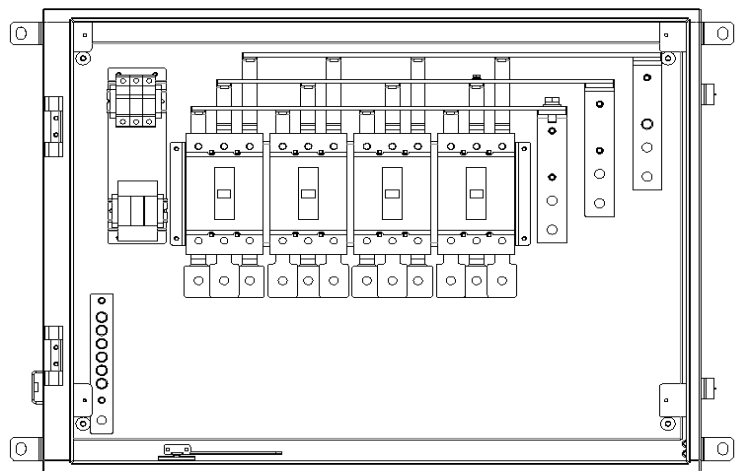
CPS can supply inverter and BOS equipment for 1500 V applications, which enables advantages for project logistics, shipment, and warranty management.

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 100/125 kW inverters.



Internal View of AC Combiner Box



Model Name	CPS DBA04-600V/US
Input Parameters	
Number of input circuits	4
OCPD type	Circuit breaker
Disconnect	None
Compatible inverter(s)	CPS SCH100KTL-DO/US-600, SCH125KTL-DO/US-600, SCH100KTL-DO/US-480
Rated voltage	600 Vac
Input current	175 A (adjustable from 140 A – 175 A)
Input conductor size	#6 – 350 MCM CU/AL
Input conduit knockout size	2" (trade size)
Output Parameters	
Output conductor size	3/0 – 600 MCM CU/AL (1 or 2 sets)
Output conduit knockout size	3" (trade size)
Interrupting capacity	25 kA
Output current	800 A
Mechanical	
Dimensions (W x H x D)	35.4 x 27.6 x 9.8 in (900 x 700 x 250 mm)
Weight	100 lbs / 45.36 kg
Padlockable enclosure (LOTO)	Yes
Grounding busbar	Yes
Breather vent	Yes
Environment	
Enclosure protection degree	NEMA Type 4X
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	6562 ft / 2000 m (no derating)
Safety	
Certifications and standards	UL 1741
Warranty	
Standard	2 years

