

4:1 AC Combiner Solution for CPS Inverters

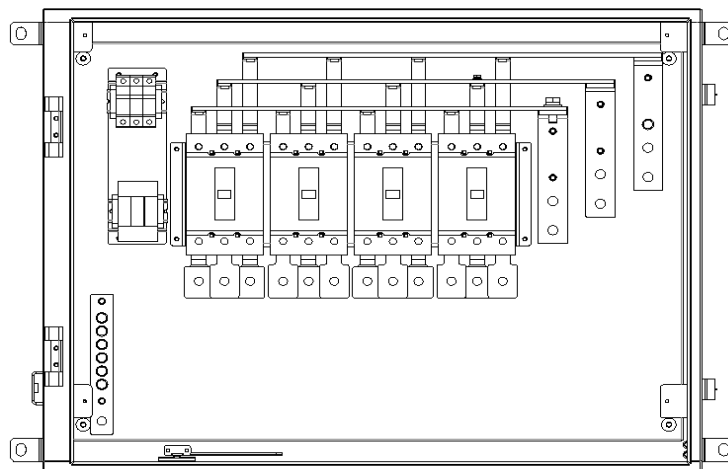


The CPS 4:1 AC Combiner Box is designed for CPS 100/125kW three phase string inverters to optimize system design, installation, and wire management. The units combine the output of up to (4) CPS 100/125kW inverters allowing a cost-effective solution for simplifying system designs and minimizing AC wire 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 1500V 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 100/125kW 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, and SCH100KTL-DO/US-480
Rated Voltage	600Vac
Input Current	175A (adjustable from 140A – 175A)
Input Conductor Size	#6 – 350MCM CU/AL
Input Conduit Knockout Size	2" (Trade Size)
Output Parameters	
Output Conductor Size	3/0 – 600MCM CU/AL (1 or 2 sets)
Output Conduit Knockout Size	3" (Trade Size)
Interrupting Capacity	25kA
Output Current	800A
Mechanical	
Dimensions (WxHxD)	35.4 x 27.6 x 9.8in. (900 x 700 x 250mm)
Weight	100lbs / 45.36kg
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	6562ft / 2000m (no derating)
Safety	
Certifications and Standards	UL1741
Warranty	
Standard	2 years

