

800 Vac 2:1 Breaker Box Solution for CPS 350 kW Inverters



The CPS 800 Vac 2:1 Breaker Box is designed for CPS 350 kW three-phase string inverters to optimize system protection, installation, and wire management. The Breaker Box combines the output of up to (2) CPS 350 kW inverters allowing a cost-effective solution for simplifying system designs and providing individual protection for each inverter. 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

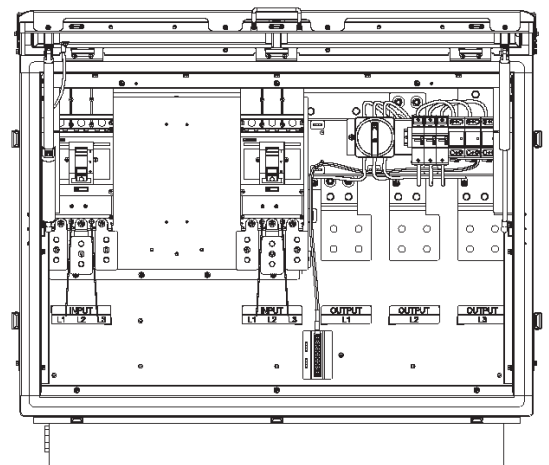
CPS can supply inverter and BOS equipment for 1500V applications, which enables advantages for project logistics, shipment, and warranty management.

Decreased Wiring Costs

Combining CPS inverters with the CPS 800 Vac Breaker Box reduces the amount of wires needed to connect the PV system to the grid.

Optimized Design with Enhanced Protection

The 800 Vac Breaker Box provides two 800 V 400 A circuit breakers for individual protection of the CPS 350 kW PV inverter.



Internal View of 800 Vac 2:1 Breaker Box

Product Model	CPS DBA02-800V/US
Input Parameter	
Number of input circuits	2
OCPD type	Circuit breakers
OCPD rating	400 A
Compatible inverter	CPS SCH350KTL-DO/US-800
Rated voltage	800 Vac
Rated input current	400 A per circuit breaker
Input conductor size	4/0 AWG-750 kcmil CU/AL
Output Parameter	
Output conductor size	250-800 kcmil CU/AL (up to 4 sets)
Rated output current	500 A
Busbar current rating	1040 A
Conduit knockout size	Removable bottom plate (2.5-4 in knockout size)
Interrupting Capacity	50 kA
Mechanical	
Installation	Bracket or wall installation
Grounding busbar	Yes
Padlockable enclosure	Yes
Shade cover	Yes
Weight	194±13 lb (88±3 kg)
Dimensions (H × W × D)	44.9 × 39.4 × 17.7 in (1140 × 1000 × 450 mm)
Environment	
Operating temperature range	-22°F to 140°F / -30°C to 60°C (derating at 113°F / 45°C)
Operating altitude	8202.1 ft / 2500 m
Operating humidity	0-95%, non-condensing
Protection grade	NEMA Type 4X
Certifications and Warranty	
Certifications and Standards	UL 891, CSA C22.2 No. 244:19
Standard Warranty	2 years

