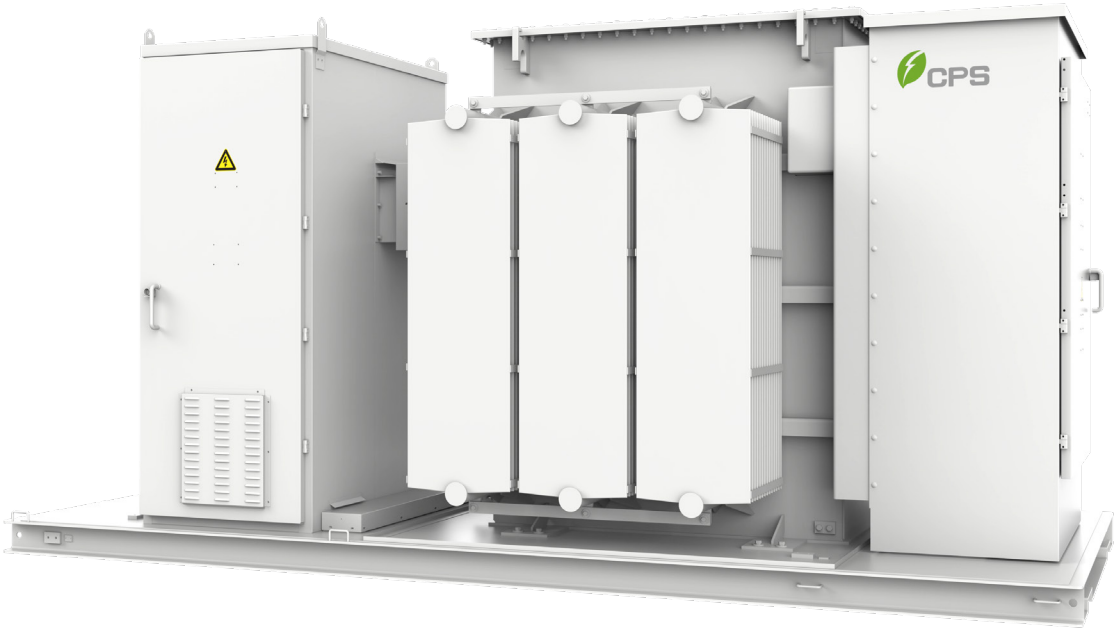
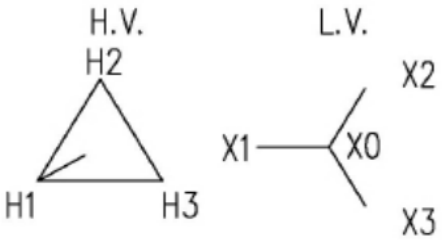
Medium Voltage Transformer Skid

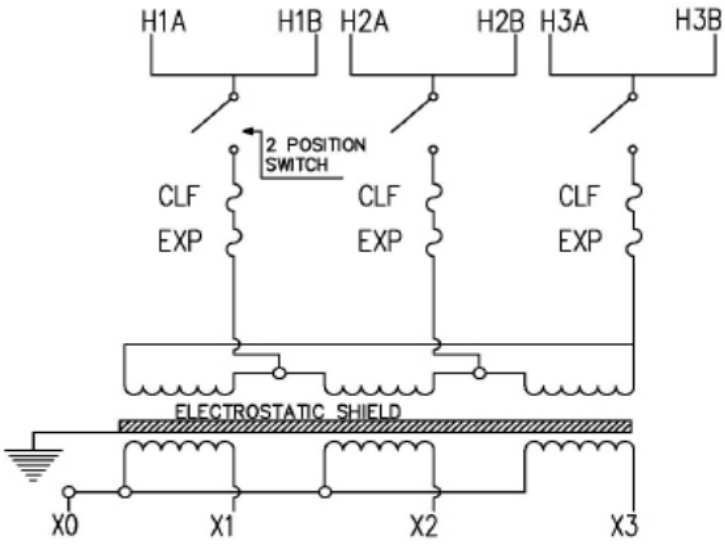


The CPS three-phase medium voltage transformer skid is the last step in the conversion that brings electrical power to the substation. The transformers are designed for superior reliability, efficiency, and environmental performance. A modular architecture paired with design options ensures cost efficiency and easy, minimal maintenance. The skid integrates a medium voltage transformer, low voltage cabinet, auxiliary transformer, and monitoring gauges. CPS offers various configurations with multiple capacities and interconnection voltages.

Phasor Diagram Example



Connection Diagram Example



Chint Power Systems America
1380 Presidential Drive, Suite 100, Richardson, TX 75081
Tel: 855-584-7168 Mail: AmericaSales@chintpower.com Web: www.chintpowersystems.com

Product Name	Medium Voltage Transformer Skid				
Specifications					
Rated power (kVA)	4200 kVA, 3300 kVA, 2800 kVA				
Installation location	NEMA 3R				
Number of windings	2				
Operating ambient temperature range @ rated power	-22°F to 113°F (-30°C to 45°C)				
Average winding temperature rise	140°F (60°C)				
Cooling class	KNAN				
Frequency	60 Hz				
Electrostatic shielding	Electrostatic shield between HV and LV windings (2 windings)				
Insulating fluid	FR3 oil				
High voltage	34.5 kV	24.94 kV	13.8 kV	13.2 kV	12.47 kV
High voltage bushing style	6 - integral deadbreak bushing 600 A 150 kV BIL		6 - integral deadbreak bushing 600 A 95 kV BIL		
High voltage conductor material	Aluminum				
Taps	2-2.5% above and 2-2.5% below nominal voltage				
High voltage configuration	Loop-feed, dead front				
Load-break switching	600 A two position load break switch				
High voltage enclosure type	Bottom entry				
Overcurrent protection	Bayonet fuses in series with partial-range current-limiting fuses				
Expulsion forces	Bayonet fuses				
Low voltage	800 Vac				
LV bushing BIL	30 kV				
LV bushing connection	Up to (20) 800 kcmil aluminum or copper per phase				
LV conductor material	Aluminum				
Elevation	6561.68 ft (2000 m)				
Vector group	Dy1, Dy11, Yd1, Yd11, YNyn0				
Dimensions (W × H × D)	16.08 × 8.14 × 7.22 ft (4900 × 2481 × 2200 mm)				
Accessories					
Liquid level indicator	Included				
Liquid temperature indicator	Included				
Pressure vacuum gauge	Included				
Off load tap changer	Included				
Pressure relief valve	Included				
Oil filling tube	Included				
Drain valve with sampler	Included				
Nitrogen blanket	Included				
5 kVA single-phase auxiliary transformer (120 Vac)	Included				
40 kVA three-phase auxiliary transformer (480 Vac)	Optional / additional cost				
Applicable Standards[1]					
MV Transformer: IEEE C57.12.00, IEEE 57.12.28, IEEE C57.12.90, CSA C2.1-06, CAN/CSA-C227.3/C227.4 LV Cabinet: UL891					

1) Specifications may change upon design and engineering finalization.