

# HV TRANSFORMER

## 3.15 MVA 5-22 kV Multi Tap HV Transformer



The 3.15 MVA Multi-Tap Transformer provides reliable and flexible voltage transformation for demanding industrial and temporary power applications. Designed for continuous operation, the transformer allows multiple primary voltage configurations via an integrated multi-tap off-load tap changer, enabling the unit to match a variety of supply voltages from generators or grid connections.

With robust construction and oil-filled cooling, the unit is ideally suited for temporary power installations, infrastructure projects, utilities, and industrial facilities. Our range of modular multi-tapped containerised transformers provides optimum voltage selection across all ranges to enable connectivity to a wide array of networks. Complete package available with full HV and LV protection.

### Key Features

- Rated Capacity: 3150 kVA continuous duty
- Multi-Tap Primary Voltage: 5 - 22 kV
- Dual Frequency Operation: 50 / 60 Hz
- Internal and External Lighting
- High Efficiency Core Design
- Internal Heaters and Cooling Fans
- 3 x 2500 A Adjustable LV Circuit Breakers
- Heavy Duty Industrial Construction
- Suitable for Generator or Grid Applications

TYPE NO	HTYBB3KH-315713	APPLICATION	CONTINUOUS
RATED POWER	3150 kVA	COOLING	ONAN
NO-LOAD LOSS (W)	3184 @ 50Hz	FREQUENCY (Hz)	50 - 60
LOAD LOSS (W)	31318 @ 50Hz	PHASE	3
IMPEDANCE VOLT	6.84 @ 50Hz	NO LOAD CUR. %	0.64 @ 50 Hz
INSULATION OIL	NYTRO LYRA X	TEMP. RISE O/W	60 / 65 K
INSULATION HV-LV	50 / 3	STANDARD	IEC 60076 - 1
WEIGHTS	11300 kg	DIMENSIONS L/W/H	3m x 2.45m x 2.6m

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## Typical Applications

- Temporary power systems
- Generator step- up installations
- Data centre commissioning
- Construction projects
- Utilities and infrastructure works
- Industrial shutdown support

## Advantages for Temporary Power projects

- Wide input voltage flexibility
- High capacity for large load requirements
- Reliable oil-cooled operation
- Suitable for generator synchronisation
- Compatible with large temporary distribution systems

## Voltage Configurations

The transformer provides multiple selectable voltage taps, enabling connection to various supply networks.

TAP CHANGER ABC	PRIMARY 50 Hz		PRIMARY 60 Hz		SECONDARY 50 Hz		SECONDARY 60 Hz		VECTOR GROUP
	VOLTAGE	CURRENT	VOLTAGE	CURRENT	VOLTAGE	CURRENT	VOLTAGE	CURRENT	
1/1/1	22000	82.7	26400	68.9	400	4547	480	3789	YNyn0
2/1/1	20000	90.9	24000	75.8					
3/1/1	18000	101.0	21600	84.2					
4/1/1	15000*	96.2*	18000*	80.2*					
1/2/1	11000	165.3	13200	137.8	400	4547	480	3789	YNyn0
2/2/1	10000	181.9	12000	151.6					
3/2/1	9000	202.1	10800	168.4					
1/1/2	12702	143.2	15242	119.3	400	4547	480	3789	Dyn11
2/1/2	11547	157.5	13856	131.3					
3/1/2	10392	175.0	12471	145.8					
1/2/2	6351	286.4	7621	238.6	400	4547	480	3789	Dyn11
2/2/2	5774	315.0	6928	262.5					
3/2/2	5196	350.0	6235	291.7					

\* NOTE: GIVEN VALUES ARE FOR 2500 KVA OPERATION