

Oil-Immersed Distribution Transformers

Selection guide for three-phase sealed oil-immersed distribution transformer configurations. Compare S13-M and S20-M only after the base electrical configuration is aligned.



Use this family when

You need a distribution transformer for local utility, industrial, commercial or building supply and the installation calls for an oil-immersed construction. Start with the network voltage, capacity and site conditions, then compare the applicable reference series and loss schedule.

Reference family options

S13-M

Lower-loss oil-immersed reference series for comparable distribution ratings.

S20-M

Higher-efficiency oil-immersed reference series for projects prioritising lifecycle energy losses.

Sealed construction

Reference series use sealed-tank configurations; final tank and accessory scope is project-specific.

Other variants

Additional performance or core variants are reviewed only against a confirmed project request.

Information to confirm before quotation

Electrical system

Destination country, frequency, HV/LV voltage and connection group.

Rating

Capacity, tap requirement, impedance and load profile.

Site conditions

Indoor/outdoor, altitude, temperature, corrosion and transport constraints.

Documentation

Required drawings, loss schedule, routine-test documentation and destination-market evidence.

Compare S13-M and S20-M at matching ratings.

Series labels are useful only after the same construction, voltage class, capacity and standard version have been established. The verified loss schedule for the exact configuration governs the final choice.

Item	S13-M reference series	S20-M reference series	Selection note
Construction	Three-phase sealed oil-immersed	Three-phase fully sealed oil-immersed	Confirm tank, accessories and cooling for the project.
Reference voltage	6/6.3/10/10.5/11 kV	6/6.3/10 kV	Final voltage and 50/60 Hz requirement must match the project.
Reference capacity	30-1600 kVA	30-2500 kVA	Capacity range is a reference, not a supply commitment.
Connection	Dyn11/Yyn0	Dyn11/Yyn0	Confirm connection group with the system designer.
Tap range	+/-5% or +/-2 x 2.5%	+/-5% or +/-2 x 2.5%	Confirm tap arrangement for the selected system.
Performance position	Lower-loss reference series	Higher-efficiency reference series	Compare loss values only at matching ratings.

Project check before a final choice

Electrical system

Destination country, frequency, HV/LV voltage and connection group.

Rating

Capacity, tap requirement, impedance and load profile.

Site conditions

Indoor/outdoor, altitude, temperature, corrosion and transport constraints.

Documentation

Required drawings, loss schedule, routine-test documentation and destination-market evidence.

No series label alone confirms destination-market compliance. Confirm the applicable standard, frequency, losses, accessories, test documentation and local approval requirement for the exact project.

Indicative comparison at matching capacities

Values below are reference figures from the existing Hovol Power series data. They are not a final quotation schedule and must be reconfirmed for the selected rating.

Capacity	S13 no-load kW	S13 load kW	S20 no-load kW	S20 load kW
100 kVA	0.150	1.580	0.135	1.265
400 kVA	0.410	4.520	0.370	3.615
630 kVA	0.570	6.200	0.510	4.960
1000 kVA	0.830	10.300	0.745	8.240
1600 kVA	1.170	14.500	1.050	11.600

Next step

Send the destination country, grid voltage, required capacity or load, installation conditions, frequency and documentation requirements. Hovol Power will return a suitable product-family shortlist and confirm the technical-document path within one business day.

Reference values are provided for preliminary comparison only. The approved project specification, selected manufacturing source and corresponding loss schedule govern the final configuration and any documentation supplied.