



## 11KV / 22KV POWER TRANSFORMERS



11kV Oil-Immersed Transformer



22kV Oil-Immersed Transformer

### Applications:

GRID offers custom-built 11kV and 22kV power transformers that are widely used in utility distribution networks, industrial plants, commercial buildings, and renewable energy systems to step up or step down voltage for efficient power transmission. These transformers may also be used to distribute electricity for applications like mining, railways, and irrigation systems.

### Features:

- Premium Durability:** Superior insulation and mechanical resilience allow for extended system life and overall system reliability – reducing the frequency of outages.
- Certified Quality:** Oil-immersed power transformers are manufactured, tested and delivered in accordance with all applicable standards (ANSI, IEEE) maintaining US compliance which simplifies service and retrofitting.
- Energy Efficient:** Designed to accommodate heavier base loading for extended periods of time with low energy loss and minimal partial discharge for optimized energy savings.

### Lead Time:

Approximately **8 weeks** after drawings approved.

\*Photos shown for visual reference only—actual product specifications may vary based on manufacturing and order requirements.

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| Voltage Combination |                    |         | Connection Symbol | Short Circuit Impedance (UK%) | Rated Capacity (kVA) | No-load Loss P0 (W) at 400V | Load Loss Pk (W) at 95°C |
|---------------------|--------------------|---------|-------------------|-------------------------------|----------------------|-----------------------------|--------------------------|
| HV (kV)             | HV Tap Range       | LV (kV) |                   |                               |                      |                             |                          |
| 11                  | +2x2.5,<br>-4x2.5% | 0.4     | Dyn11             | 4%                            | 50                   | 168                         | 875                      |
|                     |                    |         |                   |                               | 60                   | 224                         | 1260                     |
|                     |                    |         |                   |                               | 100                  | 272                         | 1505                     |
|                     |                    |         |                   |                               | 160                  | 384                         | 2170                     |
|                     |                    |         |                   |                               | 200                  | 456                         | 2520                     |
|                     |                    |         |                   |                               | 300                  | 576                         | 3815                     |
|                     |                    |         |                   |                               | 400                  | 638                         | 4638                     |
|                     |                    |         |                   |                               | 500                  | 700                         | 5460                     |
|                     |                    |         |                   |                               | 630                  | 825                         | 6430                     |
|                     |                    |         |                   |                               | 800                  | 1015                        | 7700                     |
|                     |                    |         |                   | 5%                            | 1000                 | 1222                        | 9450                     |
|                     |                    |         |                   |                               | 1250                 | 1500                        | 11700                    |
|                     |                    |         |                   |                               | 1500                 | 1785                        | 13860                    |
|                     |                    |         |                   |                               | 1600                 | 1950                        | 14900                    |
|                     |                    |         |                   |                               | 2000                 | 2736                        | 15750                    |
|                     |                    |         |                   | 6%                            | 2500                 | 3400                        | 17750                    |
|                     |                    |         |                   |                               | 3000                 | 3950                        | 19750                    |
|                     |                    |         |                   |                               | 3500                 | 4075                        | 22850                    |
|                     |                    |         |                   |                               | 4000                 | 4200                        | 25950                    |
|                     |                    |         |                   |                               | 5000                 | 5000                        | 31500                    |
| 22                  | +2x2.5,<br>-4x2.5% | 0.4     | Dyn11             | 4%                            | 50                   | 168                         | 875                      |
|                     |                    |         |                   |                               | 60                   | 224                         | 1260                     |
|                     |                    |         |                   |                               | 100                  | 272                         | 1505                     |
|                     |                    |         |                   |                               | 160                  | 384                         | 2170                     |
|                     |                    |         |                   |                               | 200                  | 456                         | 2520                     |
|                     |                    |         |                   |                               | 300                  | 576                         | 3815                     |
|                     |                    |         |                   |                               | 400                  | 638                         | 4638                     |
|                     |                    |         |                   |                               | 500                  | 700                         | 5460                     |
|                     |                    |         |                   |                               | 630                  | 825                         | 6430                     |
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|                     |                    |         |                   |                               | 3000                 | 3950                        | 19750                    |
|                     |                    |         |                   |                               | 3500                 | 4075                        | 22850                    |
|                     |                    |         |                   |                               | 4000                 | 4200                        | 25950                    |
|                     |                    |         |                   |                               | 5000                 | 5000                        | 31500                    |

## Working Conditions:

- Max. ambient temperature: +40°C
- Max daily average ambient temperature: +30°C
- Max annual average ambient temperature: +20°C
- Min. temperature: -5°C (indoor installation)
- Altitude: ≤1000m
- Relative humidity: ≤90% (25°C) (without condensation)
- Customized engineering available on request
- Min. temperature: -30°C (outdoor installation)



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