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# DGXGN – 12

## GAS INSULATED SWITCHGEAR CABINET

### INDOOR / THREE-PHASE / HIGH VOLTAGE



登高电气有限公司
DENGGAO ELECTRIC CO.,LTD.

# DGXGN GAS INSUALTED SWITCHGEAR CABINET

## 1. SUMMARY

DGXGN -12 gas insulated switchgear cabinet adopts modular design, with its perfect unity of fixed type and flexible expansion, so as to meet the requirements of end users or network nodes, and meet the needs of various distribution switching stations, box substations, and cable branch boxes. It has the characteristics of compact structure, safety, reliability, long service life, and maintenance-free.

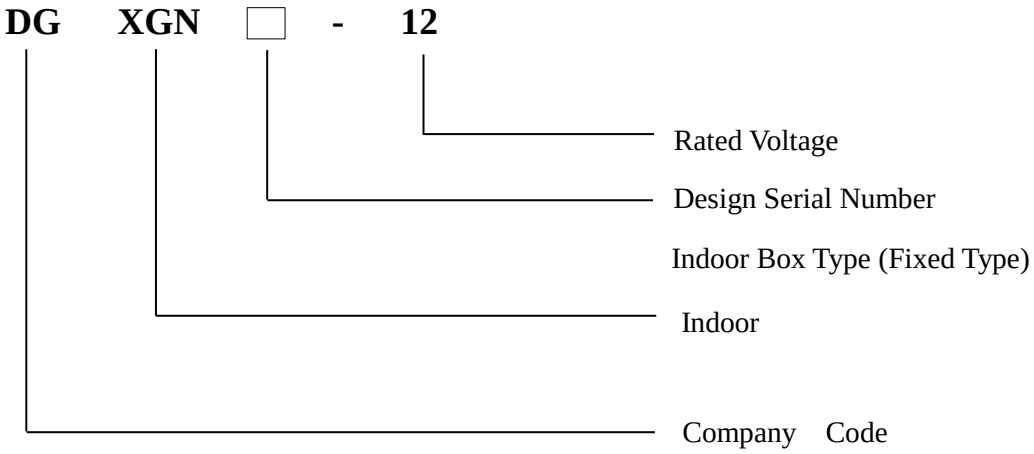
DGXGN -12 gas insulated switchgear has 3 basic types;

DGM6 - 12/C (Load Switch unit),

DGM6 - 12/F (Combined Electrical unit), and

DGM6 - 12/V (Circuit Breaker unit)

## 2. MODEL AND MEANING




## 3. NORMAL USAGE CONDITIONS

1. Altitude: Less than 2000 meters
2. Ambient Temperature: Upper limit +40 ℃, Lower limit -15 ℃;
3. Temperature: Max average relative temperature:
   24-hour measurement ≤ 95%
   1-month measurement ≤ 90%
4. Oxygen resistance: the ground oxygen intensity shall not exceed 8 degrees

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## 4. TECHNICAL PARAMETER TABLE

| No. | Item | | DGM6-12/C Load Switch Unit | DGM6-12/F Combine Electric Unit | DGM6-12/V Circuit Breaker Unit |
|---|---|---|---|---|---|
| 1 | Rated voltage | | 12kV | 12kV | 12kV |
| 2 | Rated Frequency | | 50Hz | 50Hz | 50Hz |
| 3 | Rated Current | | 630A | 125A | 630A |
| 4 | Rated Power Frequency Withstand Voltage | Interphase, Phase to Earth | 42kV | 42kV | 42kV |
| | | Isolation Fracture | 48kV | 48kV | 48kV |
| 5 | Rated Lightning Impulse Voltage | Interphase, Phase to Earth | 75kV | 75kV | 75kV |
| | | Isolation Fracture | 85kV | 85kV | 85kV |
| 6 | Rated Short-Time Withstand Current | | 25kA/4S | - | 25kA/4S |
| 7 | Rated Peak Withstand Current | | 63kA | - | 63kA |
| 8 | Rated Short-Circuit Breaking Current | | - | 31.5kA | 25kA |
| 9 | Rated Short-Circuit Making Current | | 63kA | - | 63kA |
| 10 | Rated Transfer Current | | - | 1700A | - |
| 11 | Rated Active Load Breaking Current | | 630A | - | 630A |
| 12 | Rated Breaking Current of Cable Point | | 10A | - | 25A |
| 13 | Rated Short-Time Making Current Making Capacity | | Main Circuit 5x Earthing Switch 5x | - | Earthing Switch 5x |
| 14 | Mechanical Life Span | | Load Switch 10000 / Earthing Switch 3000 | | Circuit breaker 20000/ Earthing switch 3000/ Disconnector 3000 |
| 15 | Internal Arc Level | | 25kA/1s | | |
| 16 | Rated Gas Pressure | | 0.04MPa | | |
| 17 | SF6 Annual Gas Leakage Rate | | Not more than 0.05% | | |
| 18 | Enclosure Protection Level | | IP4X | | |
| 19 | Gas Box Protection Level | | IP67 | | |
| 20 | Design Usage Life Span | | 30 Years | | |

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