

# ZiyaoPower LV Switchgear Series

## GCS / GGD / MNS — Selection & Comparison Guide

### 1. Application

ZiyaoPower LV switchgear series covers fixed, withdrawable, and modular designs for industrial, commercial, and infrastructure power distribution. All products are IEC 61439-1/2 and GB/T 7251 Type-Tested Assembly (TTA) verified.

### 2. Comparison Matrix

Feature	GGD	GCS	MNS
Type	Fixed	Drawer (with Module)	Modular withdrawable
Rated Voltage	380/400/660 V	380/400/660 V	up to 690 V
Max Busbar Current	4000 A	4000 A	6300 A
Short-Circuit (1s)	30/50 kA	50/80 kA	up to 100 kA
Enclosure IP	IP30/IP40	IP30/IP40	IP31/IP43
Drawer Module	N/A	160mm (1/2, 1, 1.5, 2, 3) E=25mm (8E series)	
Application	Cost-effective distribution	Flexible distribution	High-end process industry
Standard	IEC 61439, GB 7251.1, GB 7251.2	IEC 61439, GB 7251.1, GB 7251.2	IEC 61439, GB 7251.1, GB 7251.2

### 3. Technical Specifications

**GGD Fixed-Type:** Front-accessible, naturally ventilated, frame CB incomer + MCCB feeders. Ideal for factories and general distribution.

**GCS Drawer-Type:** Withdrawable units in standard 160mm modules. Test/isolated/connected positions. Ideal for rapid maintenance scenarios.

**MNS Modular:** 25mm (E) grid, Form 4b segregation, arc-fault containment. For oil & gas, chemical, data center applications.

### 4. Key Features

- GGD: Economic fixed design, 630-4000A busbar, IP30/IP40, easy front access
- GCS: Drawer units 160mm module, up to 22 drawers/panel, mechanical interlocks
- MNS: E=25mm grid, Form 4b separation, arc-fault rated, DCS/SCADA integration
- All series: TTA verified, copper or aluminum busbar, C3/C4 corrosion class options
- Standard accessories: multi-function meter, surge protection, reactive compensation

### 5. How to Order

[Series]-[Ibus]/[Icw]-[Panel Qty] [Options]

Example: GCS-2500A/50kA-6panels Metering+SPD

- Options: reactive compensation (APF/SVG), IEC61850 communication, arc-fault detection

### 6. Certifications

- IEC 61439-1/2: Low-voltage switchgear and controlgear assemblies
- GB/T 7251.1/.12: Chinese LV switchgear standard, TTA verified
- ISO 9001 | CCC | CE

This datasheet is for reference only. Specifications subject to change without notice.