

iPanel Internet Intelligent Low voltage cabinets

1. Product introduction

iPanel Low-voltage switchgear set (hereinafter referred to as "switchgear") is our own research and designed product, based on many years of low-voltage production experience, and technologies introduced from abroad. Our products is complying with GB7251.12, IEC61439-2.



iPanel system can be adapt to a variety of power supply and distribution needs, widely used in power generation, transportation, industry, buildings, communications and other industries.

2. Character of product

2.1 Designing

1. Structure: The frame structure adopts steel plate stamping bending forming, which makes the structure have high strength and better grounding continuity through special connection mode.
2. Versatility: The implementation of modular design, $E=25\text{ mm}$ as the modulus of the C-profile can meet the various forms of combination, and can be composed of protection, operation, control, distribution, measurement and other standard units
3. Technical performance: The main parameters can reach the contemporary international

technology level.

4. Interchangeability: Functional units can be loaded and unloaded as a whole, and functional units of the same specifications are interchangeable
5. Security: comprehensive isolation protection system can effectively enhance the safety performance.
6. Flexibility: Separate Busbar system could be used for single cabinet assembly and replacement for maintenance.
7. Reliability: Excellent dynamic thermal stability and reliable connectors, so that the quality of power supply and distribution is guaranteed.

2.2 Structure

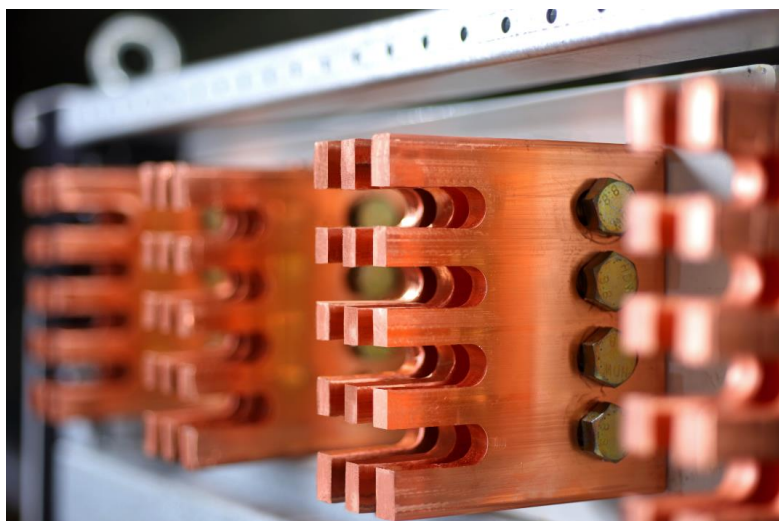
1. Elegant outlooking



2. High mounting density: up to 12 full-mode unit drawers can be installed in a single cabinet, while MNS-L can only be installed with 9 drawers; Under the same number of loops and load, the iPanel takes up less space and cost.

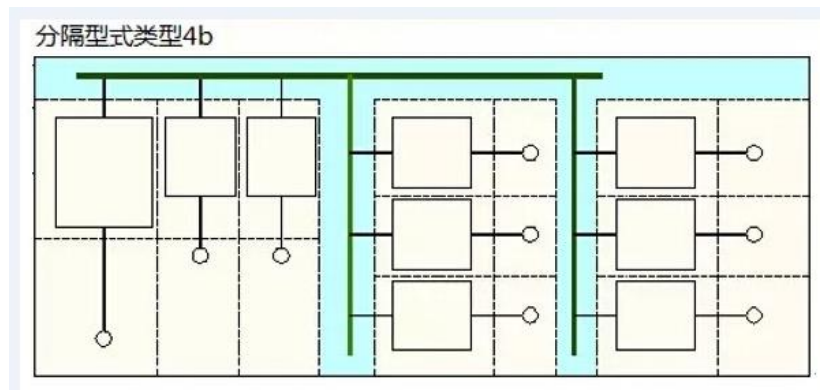


3. Independent Busbar System: the use of separate busbar system and sliding connection technology, single cabinet could be independent delivery, installation and demolition, installation and maintenance will be more convenient, economical.

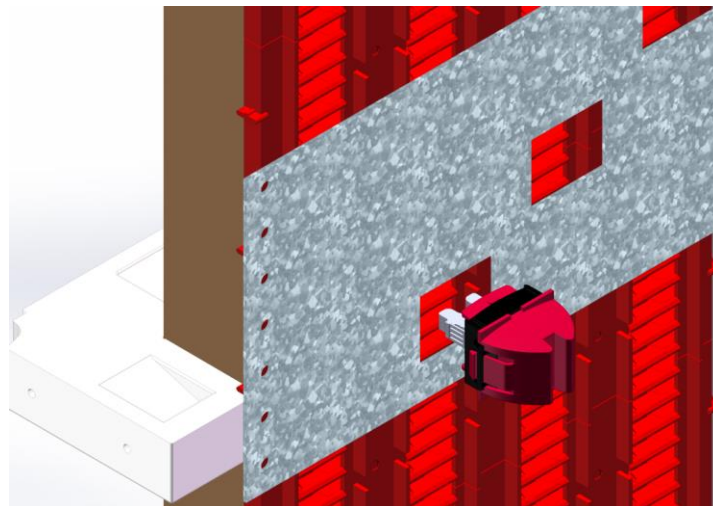


4. Safe isolation protection: when open the door, it cannot touch the horizontal busbar, the internal isolation protection can reach the type 4b, effectively prevent a functional unit failure arc and metal steam ripple to the adjacent of other functional units or affect the main busbar and

distribution busbar system. At the same time, strengthening the protection of personal accident of electric shock.



5. Advanced plug-in technology: the use of advanced double-chuck structure, One-plug technology, reduced the wear of vertical busbar, prevent the heat or temperature rise too high of the busbar due to the wearing or abrasive, improve the stability of equipment operation.



6. Humanized operating mechanism: for high-power circuit, the use of labor-saving mechanism, operators can shake the handle, easy to achieve three positions, save effort and ease.



2.3 Electrical features

1. Excellent dynamic thermal stability performance: When the main busbar 4000A~1600A, the horizontal busbar $I_{cw}=80KA$, the control cabinet distribution busbar $I_{cw}=65KA$.
2. Centralized data collection and monitoring: Collection data collection, analysis and control, integrated energy efficiency monitoring system, multi-loop distribution network for centralized monitoring and management, more intelligent and efficient.



3. Supporting Intelligent Monitoring system: The first use of circuit breaker life warning system, the circuit breaker could be online diagnosis; The whold intelligent monitoring of electrical

system operation status, realized the real-time data monitoring, early warning, alarm, recording, analysis ; Integrated distribution Environment Detection system, electrical fire Monitoring System, could be monitoring the environment temperature and humidity; the electrical fire safety monitoring and early warning can achieve remote management on the Internet, anytime or anywhere all will be show at your fingertips.



4. We can provide operation and maintenance system: in our iPanel Intelligent Distribution System, there could be the provision of power operation and maintenance services, one-stop hosting, professional and rigorous safe and reliable operation and maintenance services, making the customer more ease in the whole working.



3. Technical parameters

Main parameters with the below table:

Rated working voltage (V)		Ac380, Ac400
Rated insulation voltage (V)		690
Rated current (A)	Horizontal Busbar	1600~4000
	Vertical Busbar	1500
Rated short time resistant current (KA/1S)		50~80
Rated Impact tolerance Current (Peak KA)		105~176
Protection class of the cabinet shell		IP41, IP31, IP30
Dimension mm		2200*600 (800, 1000) *1000