FUKEN

400-9669918

www.sxfkdq.cn

shanxifuken@163.com

TAIYUAN CITY, SHANXI PROVINCE
NO. 1, BAIZHAN ROAD, JINYANG DISTRICT

SCAN THE CODE TO LEARN MORE

DIGITAL FACTORY
INTELLIGENT MANUFACTURING

FUKEN



SHANXI FUKEN
PRODUCT MANUAL

SHANXI FUKEN ELECTRIC CO., LTD

DIGITAL FACTORY
INTELLIGENT MANUFACTURING

FUKEN

DIGITAL FACTORY, INTELLIGENT MANUFACTURING

SHANXI FUKEN ELECTRIC

contents

01.Company Introduction	P.01-P.04
02.Honor Certificate	P.05- P.06
03.Cooperative partner	P.07- P.08
04.Product Introduction	P.11- P.48
05.Service Introduction	P.49- P.52

Company Introduction

ABOUT US



2026

Shanxi Fuken Electrical Co., Ltd. — Technology-Driven, Quality-First

-

Shanxi Fuken Electrical Co., Ltd. is a high-tech enterprise integrating R&D, manufacturing, and trade, based in Taiyuan, Shanxi Province, China. Deeply engaged in the field of electrical equipment, we are committed to advancing toward a digital and intelligent future — with quality as our foundation and technology as our driving force.

Certified Quality You Can Trust Our operations fully comply with internationally recognized management standards, certified to ISO 9001 (Quality Management), ISO 14001 (Environmental Management), and ISO 45001 (Occupational Health & Safety). Every product we deliver is backed by a rigorous quality assurance system from sourcing to shipment.

Recognized Innovation & Technical Strength As a certified national High-Tech Enterprise and a National Technology-based SME, we hold multiple utility model and invention patents, reflecting continuous investment in R&D and a development philosophy of "technology-driven, quality-first."

A Dependable Long-Term Partner Our honest, standardized operation has earned us AAA-level enterprise credit certification. By integrating research, production, and trade under one roof, we are able to offer global buyers reliable quality, consistent supply, and responsive end-to-end service.

We look forward to partnering with you on the journey toward a smarter, more connected electrical future.

Production Workshop



Advanced Technology and Quality Assurance

High-quality equipment is a reliable guarantee for improving product quality. We insist on integrating high-quality materials, advanced technology, and strict manufacturing standards. We pay close attention to the user experience and are well aware that users have increasingly higher requirements for product quality and reliability. Therefore, quality is the most important aspect in our products.

First-class talents, first-class technology, first-class equipment and first-class management constitute first-class production lines.

Honor Certificate











Cooperate Partner





Product Catalogue

High and Low Voltage Equipment Series 011-038

FKJX Control Box 011-014

FKSX Dual Power Distribution Device 015-016

KYN28-12(Z)/T1250-31.5 Withdrawable Indoor Metal-enclosed Switchgear 017-020

KYN61-40.5/4000-31.5 Armored Withdrawable AC Metal-enclosed Switchgear 021-023

HXGN15-12 AC Metal Ring Network Switchgear (RMU) 023-024

YB□-12/0.4-1600 HV/LV Prefabricated Box-type Substation 025-026

YZC Prefabricated Cabin 027-028

YBW□-40.5/0.315–0.69 (PV) PV-dedicated Box-type Substation (Container Type) 029-030

GCS Low-voltage Drawer-type Switchgear 031-032

GGD Low-voltage Distribution Cabinet 033-034

JP Series Integrated Distribution Boxes (Compensation / Control / Terminal / Lighting) 035-036

Energy Metering Box (Stainless Steel / Powder-coated Metal / FRP SMC / Transparent PC) 037-038

Transformer series 039-040

S11 Oil-Immersed Power Transformer 039-040

Explosion-proof electrical series 041-044

BX Explosion-proof Distribution Box 041-042

BXX Explosion-proof Distribution Box 043-044

Automation series 045-048

PS Rittal-style Enclosure Cabinet 045-046

FK VFD Cabinet 047-048

FKJX
Control Box

Applicable / Complied Standards:
IEC 60439-1:1992; GB 7251.1-1997

FUCHEN ELECTRIC
FKJX CONTROL BOX



DIGITAL FACTORY, INTELLIGENT MANUFACTURING

Product Description

The FKJX wall-mounted low-voltage power control box is suitable for 3-phase 3-wire, 3-phase 4-wire and 3-phase 5-wire systems at 50 Hz, 500 V or below, with load current not exceeding 250 A. It provides distribution-system control, residual-current protection, and motor overload, short-circuit and phase-loss protection, together with various control functions. The enclosure features a rational design, compact size, attractive appearance, and safe, reliable operation.

Model Designation / Coding

FK JX XF-□ □ □ □

- Depth
- Width
- Height
- "1" = metal door, "2" = transparent door
- Indoor
- Control Box
- Manufacturer Code

Applications / Intended Use

Metallurgy, petrochemical, medical & healthcare, aviation, residential communities, shopping malls, schools, urban renovation, etc.

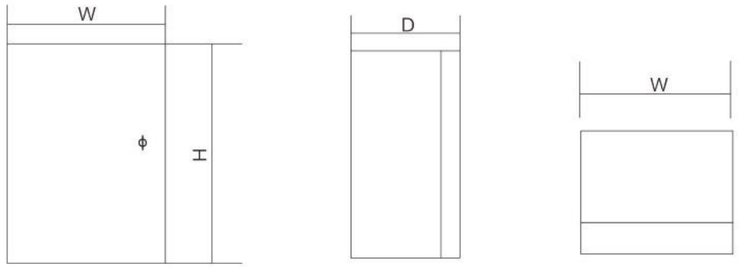
Functions / Features

Distribution-system control and residual-current protection; motor overload, short-circuit and phase-loss protection, plus various control functions.

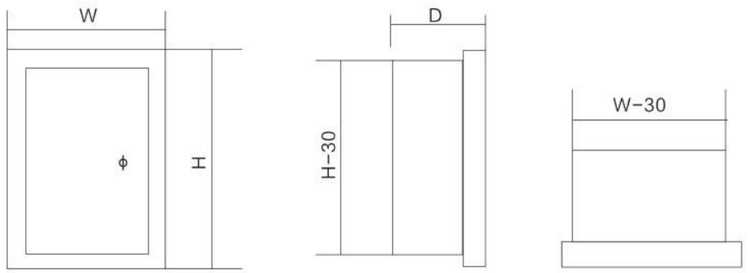
Rated Frequency	HZ	50
Rated Voltage / Operating Voltage	V	500 or below
Rated Current /Load Current	A	≤250
Busbar /System Configuration	3-phase 3-wire, 3-phase 4-wire and 3-phase 5-wire systems	
Degree of Protection /IP Rating	IP20、IP40、IP43、IP54、IP65	
Altitude	≤2000 m	
Ambient Temperature	–25˚C to +40˚C	
Relative Humidity	Monthly average relative humidity ≤40% at +20˚C	
Seismic / Vibration Conditions	Locations free from severe vibration and shock	
Ambient Temperature	–25˚C to +40˚C	
Ambient Medium / Installation Conditions	No explosion hazard; the atmosphere shall be free from gases and conductive dust sufficient to corrode metal or damage insulation.	
Construction / Structural Features	Multiple series and constructions; welded, split and assembled types; indoor and outdoor types.	
Door / Enclosure Construction	Multiple double-door constructions.	

FKJX
Control Box

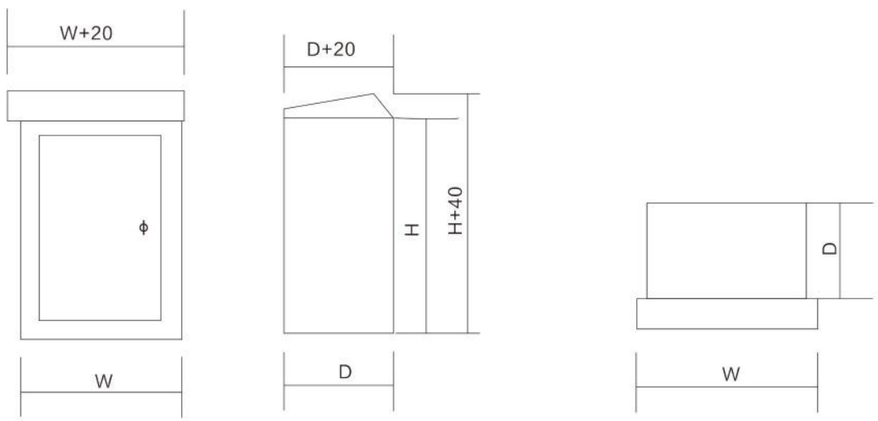
Installation Diagram



FKJX (Exposed Installation)



FKJX (Hidden Installation)



JFF

Overall dimensions (welded type)

Specification	H	W	D	Steel Sheet Thickness	Structural Features
2520/14	250	200	140		JXF is divided into two types: exposed and concealed. JFF is available in two types: metal doors and transparent window doors. The door panels are equipped with sealing rubber strips to prevent water from seeping in. The box body is equipped with upper and lower inlet/outlet holes and an installation base. The inlet/outlet holes have been sealed with a cover plate at the factory. The opening angle of the door is greater than 90 degrees. JXF and JFF1 have 25 specifications each, while JFF2 has 18 specifications.
3025/14	300	250	140		
3025/18	300	250	180		
3030/14	300	300	140		
3030/18	300	300	180		
4030/14	400	300	140		
4030/20	400	300	200	1.2	
5040/14	500	400	140		
5040/20	500	400	200		
5040/23	500	400	230		
6040/14	600	400	140		
6040/20	600	400	200		
6040/23	600	400	230		
6050/14	600	500	140		
6050/20	600	500	200		
6050/23	600	500	230		
7050/16	700	500	160		
7050/20	700	500	200		
7050/23	700	500	230	1.5	
8060/20	800	600	200		
8060/23	800	600	230		
8060/25	800	600	250		
100080/20	1000	800	200		
10080/25	1000	800	250		
10080/30	1000	800	300		

Note: Enclosure dimensions can be customized according to drawings or requirements provided by the customer.

Product display



FKSX
Dual Power Distribution Device

Applicable / Complied Standards:
IEC 60439-1:1992； GB 7251.1-1997

FUCHEN ELECTRIC
FKSX DUAL POWER
DISTRIBUTION DEVICE



DIGITAL FACTORY, INTELLIGENT MANUFACTURING

Product Description

The FKSX dual power distribution device is suitable for 3-phase 3-wire, 3-phase 4-wire and 3-phase 5-wire systems at 50 Hz, 500 V or below, with load current not exceeding 250 A. It provides distribution-system control, residual-current protection, and motor overload, short-circuit and phase-loss protection, together with various control functions.

Model Designation / Coding

FK SX XF-□ □ □ □

- Depth
- Width
- Height
- "1" = metal door,
  "2" = transparent door
- Indoor
- Dual-Power Control Box
- Manufacturer Code

Applications / Intended Use

Metallurgy, petrochemical, medical & health-care, aviation, residential communities, shopping malls, schools, urban renovation, etc.

Functions / Features

Dual-power distribution; distribution-system control and residual-current protection; motor overload, short-circuit and phase-loss protection, plus various control functions.

Rated Frequency	HZ	50
Rated Voltage / Operating Voltage	V	500 or below
Rated Current /Load Current	A	≤250
Busbar /System Configuration	3-phase 3-wire, 3-phase 4-wire and 3-phase 5-wire systems	
Degree of Protection /IP Rating	IP20、IP40、IP43、IP54、IP65	
Altitude	≤2000 m	
Ambient Temperature	−25˚C to +40˚C	
Relative Humidity	Monthly average relative humidity ≤40% at +20˚C	
Seismic / Vibration Conditions	Locations free from severe vibration and shock	
Ambient Temperature	−25˚C to +40˚C	
Ambient Medium / Installation Conditions	No explosion hazard; the atmosphere shall be free from gases and conductive dust sufficient to corrode metal or damage insulation.	
Construction / Structural Features	Multiple series and constructions; welded, split and assembled types; indoor and outdoor types.	
Door / Enclosure Construction	Multiple double-door constructions.	

KYN28-12(Z)/T1250-31.5
Withdrawable Indoor Metal-enclosed Switchgear

FUCHEN ELECTRIC
KYN28-12(Z)/T1250-31.5



DIGITAL FACTORY, INTELLIGENT MANUFACTURING

Product Description

The KYN28-12 (GZS1) armored withdrawable AC metal-enclosed switchgear is suitable for 3-phase AC 50 Hz power systems. It is used for receiving and distributing electrical energy and for circuit control, protection and monitoring.

Applicable / Complied Standards: GB3906; GB/T11022; IEC298.

Model Designation / Coding

K Y N 28 – 12 / □ □

- Environmental Designations.
  - TH - For Humid Tropical Regions
  - TA - For Dry Tropical Regions
  - G - For High-Altitude Areas
- A Single-Loop Solution
- Rated Voltage
- Design Serial Number
- Indoor
- Withdrawable
- Metal-Enclosed Armored

Operating Environmental Conditions

Altitude	≤2500 m
Ambient Temperature	–15˚C to +40˚C
Seismic / Vibration Conditions	Daily average RH ≤95% with water vapour pressure ≤2.2 kPa; monthly average RH ≤90% with water vapour pressure ≤1.8 kPa
Seismic / Vibration Conditions	Seismic intensity ≤8; no frequent severe vibration
Ambient Medium / Installation Conditions	Ambient air shall be free from significant pollution by corrosive or flammable gases, water vapour, etc.

Ordering Notes / Remarks

Ordering information shall include the main-circuit scheme, single-line diagram, arrangement drawing, component parameters, busbar parameters and any special service conditions.



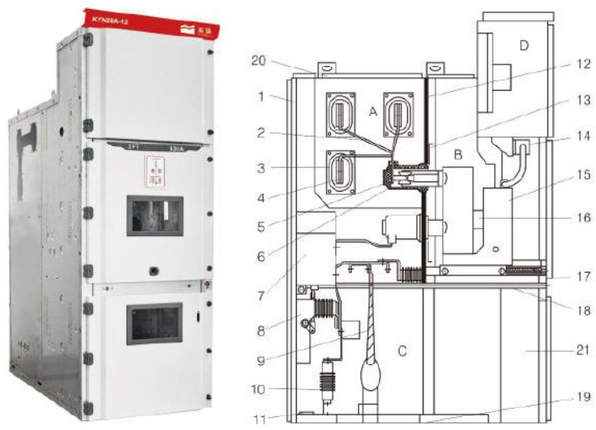
KYN28-12(Z)/T1250-31.5
Withdrawable Indoor Metal-enclosed Switchgear

Main Technical References

Rated Frequency		HZ	50
Rated Voltage / Operating Voltage		KV	3.6、7.2、12
Rated Current / Load Current		A	630、1250、1600、2000、2500、3150、4000
Rated Short-circuit Breaking Current		KA	16、20、25、31.5、40、50
Rated Short-time Withstand Current		KA	16、20、25、31.5、40、50 (4s)
Rated Peak Withstand Current		KA	40、50、63、80、100、125
Short-circuit Making Current		KA	40、50、63、80、100、125
1 min Power-frequency Withstand Voltage	Phase-To-Phase / Phase-To-Earth:		24, 32, 42 kV
	Across Isolating Distance:		24, 32, 48 kV
Lightning Impulse Withstand Voltage	Phase-to-phase / phase-to-earth:		40, 60, 75 kV
	across isolating distance:		46, 70, 85 kV
Degree of Protection / IP Rating	Enclosure IP4X; IP2X with compartment door open		

Construction / Structural Features

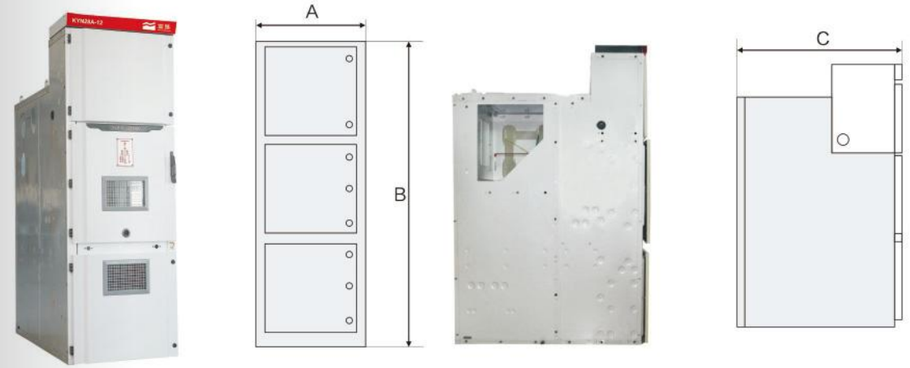
Armored withdrawable construction; all-metal assembly; interchangeable trucks; reliable mechanical/electrical interlocking with "Five Prevention" functions.

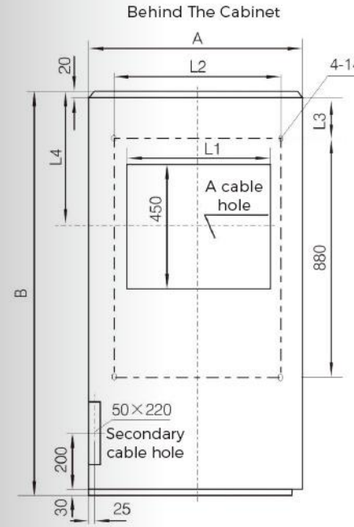


Structural Diagram Of Switchgear

A. Busbar Compartment
B. Circuit Breaker Truck Compartment
C. Cable Compartment
D. Relay & Instrument Compartment
1. Enclosure
2. Branch Busbar
3. Busbar Bushing
4. Main Busbar
5. Stationary Contact Assembly
6. Contact Box
7. Current Transformer (CT)
8. Earthing Switch
9. Cable
10. Surge Arrester
11. Earthing Busbar
12. Removable Partition
13. Partition (Shutter)
14. Secondary Plug
15. Circuit Breaker Truck
16. Heating Device
17. Draw-out Horizontal Partition
18. Earthing Switch Operating Mechanism
19. Base Plate
20. Pressure Relief Device
21. Control Wiring Duct

Overall dimensions (welded type)









Parameter	Value
Approx. H	2300 (2200) mm
Approx. W	800/1000 mm
Approx. D	1500/1660 mm

KYN61-40.5/4000-31.5 Armored Withdrawable AC Metal-enclosed Switchgear

FUCHEN ELECTRIC
KYN61-40.5/4000-31.5



DIGITAL FACTORY, INTELLIGENT MANUFACTURING

Product Description

The KYN61-40.5 armored withdrawable AC metal-enclosed switchgear is suitable for 3-phase AC 50 Hz, 40.5 kV systems. It is used in power plants, substations and industrial & mining enterprises to receive and distribute electrical energy, with control, protection and monitoring functions.

Applicable / Complied Standards: GB3906; GB/T11022; DL/T404; IEC298.

Applications / Intended Use

40.5 kV power distribution in power plants, substations, and industrial & mining enterprises.

Main Technical Parameters

Rated Frequency		HZ	50
Rated Voltage / Operating Voltage		KV	40.5
Rated Current / Load Current	Main Busbar		630, 1250, 1600, 2000 A
	Circuit Breaker		630, 1250, 1600, 2000 A
Rated Short-circuit Breaking Current		KA	20、25、31.5
Rated Short-time Withstand Current		KA	20、25、31.5/4s
Rated Peak Withstand Current		KA	50、63、80
Short-Circuit Making Current		KA	50、63、80
1 Min Power-Frequency Withstand Voltage		KV	95/110
Lightning Impulse Withstand Voltage		KV	185/215
Auxiliary / Control Circuit Voltage		V	DC110/200; AC110/220
Degree of Protection / IP Rating	Enclosure		IP4X
	with compartment door open		IP2X
Auxiliary / Control Circuit Voltage	ZN85-40.5 circuit breaker: Mechanical Life 10,000 Operations; Closing Time 50–100 Ms; Opening Time 35–60 Ms.		
Construction / Structural Features	Armored compartmentalized construction; enclosure + withdrawable truck; “Five Prevention” interlocking.		
Overall / Installation Dimensions	Approx. 1400 × 2800 (3000) × 2600 mm		
Altitude	≤2500 m		
Ambient Temperature	-15℃～+40℃		
Relative Humidity	Daily average RH ≤95%; monthly average RH ≤90%		
Busbar /System Configuration	3-phase 3-wire, 3-phase 4-wire and 3-phase 5-wire systems		
Seismic / Vibration Conditions	Seismic intensity ≤8		
Ambient Medium / Installation Conditions	No significant pollution by corrosive or flammable gases.		

HXGN15-12 AC Metal Ring Network Switchgear (RMU)

FUCHEN ELECTRIC
HXGN15-12

DIGITAL FACTORY, INTELLIGENT MANUFACTURING



Product Description

HXGN15-12(F) and HXGN15-12(F·R) box-type fixed AC metal-enclosed ring main switchgear are used in ring-main supply or distribution systems with rated voltage of 12 kV and rated current up to 630 A.

Applicable / Complied Standards: GB3906; GB/T11022; IEC298; DL/T404.

Applications / Intended Use

12 kV ring-main supply/distribution systems and the HV side of prefabricated substations.

Main Technical Parameters

Rated Frequency	HZ	50
Rated Voltage / Operating Voltage	KV	12
Rated Current /Load Current	A	630
Rated Short-Circuit Breaking Current	HZ/A	F·R type: 50 kA; maximum rated fuse current 125 A
Rated Short-Time Withstand Current	KA	20/3s
1 Min Power-Frequency Withstand Voltage	KV	42/48
Lightning Impulse Withstand Voltage	KV	75/85
Degree of Protection / IP Rating	IP2X	
Degree of Protection /IP Rating	IP20、IP40、IP43、IP54、IP65	
Construction / Structural Features	Comprises the enclosure, SF_6 load break switch / combination unit, earthing switch, instrument compartment, busbars, etc.; equipped with mechanical interlocking.	

Under Normal Usage Conditions

Altitude: ≤2500 m
Ambient Temperature: -15℃～+40℃
Relative Humidity: Daily average RH ≤95%; monthly average RH ≤90%
Seismic / Vibration Conditions: Seismic intensity ≤8





YB□-12/0.4-1600 HV/LV Prefabricated Box-type Substation

FUCHEN ELECTRIC
YB□-12/0.4-1600

DIGITAL FACTORY, INTELLIGENT MANUFACTURING



Product Description

A three-in-one prefabricated box-type substation integrating HV switchgear, transformer and LV switchgear.

Applicable / Complied Standards: GB/T17467-1998; DL/T537-93.

Applications / Intended Use

Urban power grid renovation, residential communities, high-rise buildings, industrial & mining facilities, hotels, shopping malls, airports, railways, oilfields, etc.





Functions / Features

Small footprint, lower investment and short project cycle; flexible wiring; double-layer enclosure for thermal insulation and ventilation; optional "Four Remote" functions.

Main Technical Parameters

Rated Frequency	HZ	50
Rated Voltage / Operating Voltage	KV	HV side 10 kV (maximum 12 kV); LV side 0.4 kV
Rated Current / Load Current	A	Load break switch rated current 630
Rated Capacity	KVA	Up to 1600
Degree of Protection /IP Rating		IP20、IP40、IP43、IP54、IP65
Rated Short-Circuit Breaking Current	KA	Fuse breaking capacity 31.5
Rated Short-Time Withstand Current	KA	20 kA/2 s or 20 kA/4 s
Rated Peak Withstand Current	KA	50
Rated Peak Withstand Current	KA	50
1 Min Power-Frequency Withstand Voltage	KV	42
Lightning Impulse Withstand Voltage	KV	75
Altitude	≤2500 m	
Ambient Temperature	-25℃～+40℃	
Relative Humidity	Daily average RH ≤95%; monthly average RH ≤90%	
Ambient Temperature	-25℃～+40℃	
Construction / Structural Features	Combination of HV compartment, transformer compartment and LV compartment; universal / villa / compact types.	
Transformer / Load Break Switch Parameters	Load break switch: 10 kV rated, 12 kV maximum, 630 A; transformer options: S9/S10/S11.	

YZC
Prefabricated Cabin

FUCHEN ELECTRIC
YZC PREFABRICATED CABIN



DIGITAL FACTORY, INTELLIGENT MANUFACTURING

Product Description

The prefabricated-cabin intelligent substation adopts factory-built, modular manufacturing to improve project quality, safety and efficiency while shortening on-site construction time.

Applications / Intended Use

New-build and renovation/expansion substations, PV/wind and other new-energy projects.



Functions / Features

Prefabricated, standardized, modular and factory-built.

Main Technical Parameters

Construction / Structural Features	Modular assemblies including base frame, front wall, rear wall, door panels, left/right side walls and roof.
Main Materials	Main exposed material: SPA-H weathering steel (B480); most structural members: Q235B carbon steel.

Material Configuration

Base-Frame Cross Beam	mm	4
Bottom Plate	mm	3/5
Posts	mm	6
Front Wall Panel	mm	1.6/2
Rear Door Panel	mm	2
Side Panel	mm	1.6
Roof Panel	mm	2
Top Rail	60x3	
Reinforcement Beam	60x30	
Epdm Seal		
Side Beams 16/18/20# Channel Steel Or 160×80×4 Rectangular Tube		



YBW□-40.5/0.315–0.69 (PV) PV-dedicated Box-type Substation (Container Type)

FUCHEN ELECTRIC
YBW□-40.5/0.315~0.69(PV)



DIGITAL FACTORY, INTELLIGENT MANUFACTURING

Product Description

The PV-dedicated box-type substation (container type) is widely used in centralized, string and distributed new-energy power generation systems.

Applicable / Complied Standards: GB/T17467-1998; DL/T537-93.

Applications / Intended Use

Photovoltaic new-energy power generation systems.

Functions / Features

Three-in-one integration of HV equipment, transformer and LV equipment; anti-corrosion, thermal insulation and ventilation; optional measurement & control and "Four Remote" functions.



Main Technical Parameters

Rated Voltage / Operating Voltage	kV	40.5/0.315～0.69
Rated Capacity	KV	Selected according to transformer rated capacity

Normal Operating Conditions

Altitude	≤1000 m
Ambient Temperature	-25℃～+40℃
Relative Humidity	Daily average RH ≤95%; monthly average RH ≤90%
Construction / Structural Features	Prefabricated container-type construction.

Product Display



GCS Low-voltage Drawer-type Switchgear

FUCHEN ELECTRIC
GCS Low-voltage
Drawer-type Switchgear



DIGITAL FACTORY, INTELLIGENT MANUFACTURING

Product Description

GCS low-voltage withdrawable switchgear assemblies are suitable for 3-phase AC 50/60 Hz systems with rated operating voltages of 380/400/660 V, for power distribution, centralized motor control and reactive power compensation.

Applicable / Complied Standards: GB7251; JB/T9661; IEC60439.

Applications / Intended Use

Power plants, petroleum, chemical, metallurgy, textile, high-rise buildings, etc.

Main Technical Parameters

Rated Frequency	HZ	50/60	
Rated Voltage / Operating Voltage	Main circuit		AC 380(400), 660 V
	Auxiliary Circuit		AC 220/380(400) V or DC 110/220 V
Rated Current / Load Current	Horizontal busbar		≤6300 A
	Vertical Busbar		1000 A
Rated Short-Time Withstand Current	KA	50、80/s	
Rated Peak Withstand Current	KA	105、176	
1 Min Power-Frequency Withstand Voltage	Main circuit		2500 V
	Auxiliary Circuit		1760 V
Busbar / System Configuration	3-phase 4-wire A/B/C/PEN		
	3-phase 5-wire A/B/C/PE/N		
Degree of Protection / IP Rating	IP30、IP40		

Normal Operating Conditions

Altitude	≤2500 m
Ambient Temperature	−15°C to +40°C; daily average ≤+35°C
Relative Humidity	≤50% at +40°C; approx. 90% at +20°C
Seismic / Vibration Conditions	Seismic intensity ≤5
Construction / Structural Features	Low-voltage drawer-type construction with modular functional units.



GGD Low-voltage Distribution Cabinet

FUCHEN ELECTRIC
GGD LOW-VOLTAGE
DISTRIBUTION CABINET



DIGITAL FACTORY, INTELLIGENT MANUFACTURING

Product Description

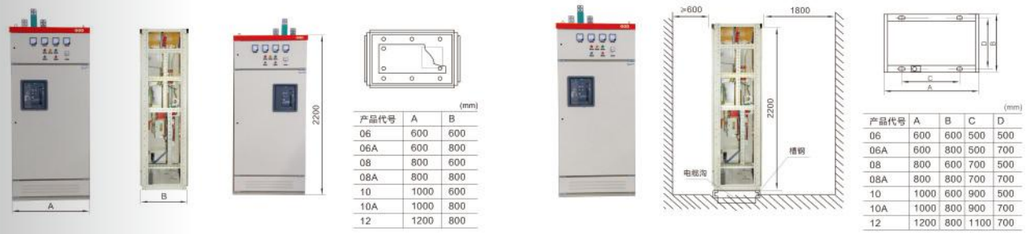
GGD low-voltage fixed switchgear assemblies are suitable for power plants, substations, industrial & mining enterprises, etc., serving as power, lighting and distribution equipment in AC 50 Hz, 380 V distribution systems.

Applicable / Complied Standards: GB 7251.12-2013; IEC 60349 (as stated in the catalogue).

Applications /Intended Use: Power plants, substations, and industrial & mining enterprises.

Main Technical Parameters

Rated Frequency	HZ	50/60	
Rated Voltage / Operating Voltage	V	380	
Rated Current / Load Current	GGD1-1000-15		1000/600(630)/400A
	GGD1-1600-30		1500(1600)/1000/600A
	GGD1-3150-50		3150/2500/2000A
Rated Short-Circuit Breaking Current	KA	15、30、50	
Rated Short-Time Withstand Current	KA	15、30、50/1s	
Rated Peak Withstand Current	KA	30、63、105	
Degree of Protection / IP Rating	IP20～IP30		
Altitude	≤2500 m		
Ambient Temperature	−50˚C to +40˚C; 24 h average ≤+36˚C		
Relative Humidity	≤50% at +40˚C		
Seismic / Vibration Conditions	Installation inclination from vertical ≤5˚		
Construction / Structural Features	Fixed low-voltage distribution cabinet; universal frame with modular mounting holes; upper and lower ventilation louvers.		
Busbar / Earthing Parameters	For 400/630/1250/1600/2000/2500/6300 A, reference busbar sizes are 40×4, 50×5, 60×10, 80×10, 2×(60×10), 2×(80×10), 2×(100×10), respectively		
Overall / Installation Dimensions	Approx. H 2200 mm; common W 600/800/1000/1200 mm, D 600/800 mm		



JP Series Integrated Distribution Boxes

(Compensation / Control / Terminal / Lighting)

FUCHEN ELECTRIC
JP Series



DIGITAL FACTORY, INTELLIGENT MANUFACTURING

FUKEN

Product Description

The JP series outdoor integrated distribution box combines metering, outgoing feeders and reactive power compensation, and provides short-circuit, overload, overvoltage and residual-current protection.

Applications / Intended Use

For outdoor pole-mounted transformer applications.

Functions / Features

Metering, outgoing feeders, reactive power compensation, and short-circuit / overload / overvoltage / residual-current protection.

Main Technical Parameters

Rated Frequency	HZ	50
Rated Voltage / Operating Voltage	AC 400 V	
	Auxiliary Circuit Ac 220/Ac 380 V	
Rated Current / Load Current	≤630 A; rated residual operating current adjustable from 30 to 300 mA	
Rated Capacity	KVA	30～400
Degree of Protection / IP Rating	IP54	
Construction / Structural Features	Separate or combined arrangement; compartmentalized enclosure with ventilation and rainproof design.	
Main Materials	Enclosure generally 2 mm high-quality stainless steel; internal mounting plates/components hot-dip galvanized.	

Normal Operating Conditions

Altitude	≤2500 m
Ambient Temperature	-25℃～+40℃
Relative Humidity	Daily average RH ≤90%; monthly average RH ≤90%







Energy Metering Box

(Stainless Steel / Powder-coated Metal / FRP SMC / Transparent PC)

FUCHEN ELECTRIC
ENERGY METERING BOX



DIGITAL FACTORY, INTELLIGENT MANUFACTURING

Product Description

The energy metering box series is suitable for rural and urban power-grid renovation. It can be wall-mounted or pole-mounted and configured for single-phase/three-phase, multi-meter positions and optional main control.

Applications / Intended Use

Residential / commercial energy metering.

Functions / Features

Mechanical / electronic / prepaid-card meters; optional disconnector, main switch and branch switches; multi-meter combinations.

Specifications / Model Range

Henan-Type Meter Boxes	Single-Phase 1/2/4/6/8/12-Meter Configurations, Etc.
Ningxia-Type Meter Boxes	Single-Phase 1/2/4/6/8/12-Meter Configurations, Etc.

Overall / Installation Dimensions

Henan Example	mm	635×840×170
Ningxia Example	mm	670×655×140



Henan-type meter boxes



Ningxia-type meter boxes

S11 Oil-Immersed Power Transformer

FUCHEN ELECTRIC
S11/S11-M



DIGITAL FACTORY, INTELLIGENT MANUFACTURING

Product Description

The S11 series oil-immersed power transformer further reduces no-load loss and no-load current compared with the S9 series, and is available with a fully sealed (M) structure.

Applicable / Complied Standards

GB 1094 series; GB/T 6451-1999; GB/T 7595-1987; JB/T 10088-2004; GB/T 10237-1988; JB/T 3837-1998.

Applications / Intended Use

10 kV-class distribution systems.

Functions / Features

Average no-load loss is approximately 30% lower than S9; no-load current is reduced by about 70–85%; fully sealed construction is available.

Specifications / Model Range

Rated Frequency	HZ	50Hz
Rated Voltage / Operating Voltage	KV	HV 11/10.5/10/6.3/6
	KV	LV 0.4
Rated Capacity	KVA	30～2500
Busbar / System Configuration	Vector group Yy11 or Dyn11	

Normal Operating Conditions

Altitude	Normally ≤1000 m
Ambient Temperature	Normal maximum +40°C; outdoor minimum −25°C; special minimum down to −45°C
Rated Capacity	KVA

Main Materials

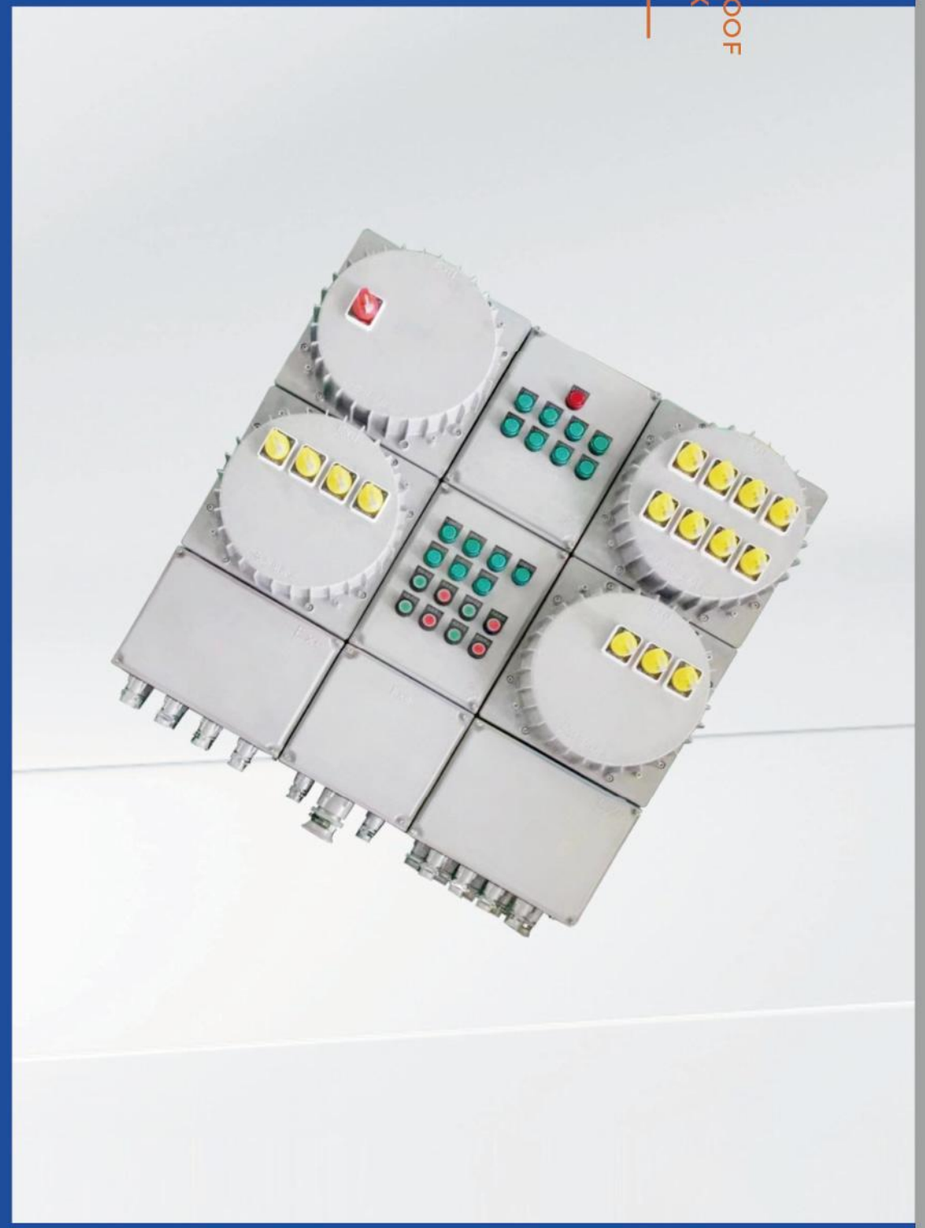
High-quality oxygen-free copper wire, silicon steel sheet, low-carbon steel structural parts, transformer oil and sealing materials.

Losses / No-load Current / Impedance

No-Load Loss Approx.	KW	0.10–2.29
Load Loss Approx	KW	0.60–21.20
No-Load Current Approx	KW	2.1%–0.6%
Impedance Voltage Approx	4.0%/4.5%/5.0%	

BX Explosion-proof Distribution Box

FUCHEN ELECTRIC
BX EXPLOSION-PROOF
DISTRIBUTION BOX



DIGITAL FACTORY, INTELLIGENT MANUFACTURING

Product Description

The BX explosion-proof distribution box is suitable for hazardous locations with explosive gas and dust atmospheres.

Applicable / Complied Standards

Ex db IIC T4 Gb; Ex tb IIIC T130°C Db (example)

Applications / Intended Use

Gas: Zone 1/Zone 2, Group IIA/IIB/IIC; dust: Zone 21/Zone 22, Group IIIA/IIIB/IIIC; Temperature Class T1–T6.

Applications / Intended Use

Aluminium-alloy die-cast or welded stainless-steel enclosure; flameproof / increased-safety construction; configurable with circuit breakers, indicator lights and surge protection.

Specifications / Model Range

Type 1	BX(D)-4/6/8/10/12
Type 2	BX(D)-4K/6K/8K/10K, etc.

Main Materials

Aluminium-alloy die-casting or welded stainless steel, with powder coating.

Main Circuit / Branch Circuit Parameters

Branch Circuits	4/6/8/10/12
K-Type Main Switch	63, 80–100, 125–250 A
Branch Circuits	1–16, 20–25, 32–63, 80–125 A

Incoming / Outgoing Cable Parameters

Main-circuit entries	M20×1.5, NPT3/4–NPT4，G1 1/2–G4
Branch Entries	M20×1.5, NPT1/2–NPT3, G1/2–G3

Ordering Notes / Remarks

Ordering shall specify number of branch circuits, current ratings, main switch, cable entries/exits, Ex marking and instrument requirements.



BXX Explosion-proof Distribution Box

FUCHEN ELECTRIC
BXX EXPLOSION-PROOF
DISTRIBUTION BOX



DIGITAL FACTORY, INTELLIGENT MANUFACTURING

Product Description

The BXX explosion-proof distribution box is suitable for explosive gas and dust atmospheres and can be configured with main and branch circuits to the customer's scheme.

Applicable / Complied Standards: Ex db IIB T4 Gb; Ex tb IIIB T130°C Db (example).

Applications / Intended Use

Gas Zone 1/Zone 2 and dust Zone 21/Zone 22.

Functions / Features

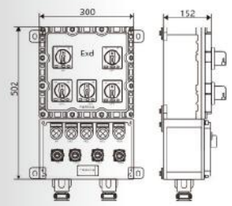
Explosion-proof enclosure with modular branch-circuit combinations.

Main Materials

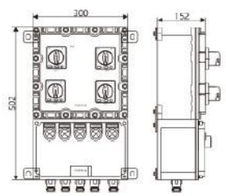
Aluminium-alloy die-casting or welded stainless steel, with powder coating.

Main Technical Parameters

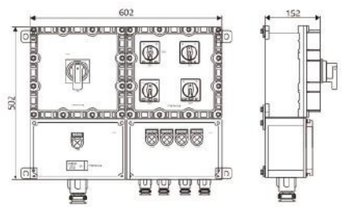
Main Circuit / Branch Circuit Parameters	Branch Circuits	4/6/8/10/12
	K-Type Main Switch	63, 80–100, 125–250 A
	Branch Circuits	1–16, 20–25, 32–63, 80–100 A.
Incoming / Outgoing Cable Parameters	Main-Circuit Entries	G1 1/2, G2, G2.5
	Branch Entries	G3/4, G1, G1 1/4, G1 1/2
Specifications / Model Range	BXX(D)-4/6/8/10/12	
	BXX(D)-4/K, 6/K, 8/K, 10/K, 12/K	



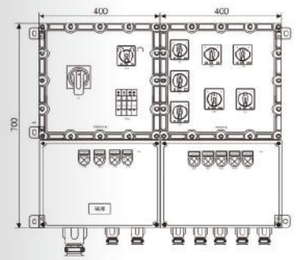
BXX(D)-4K



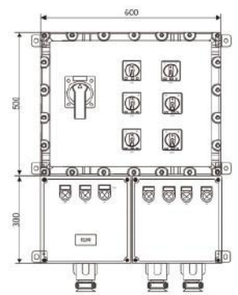
BXX(D)-4



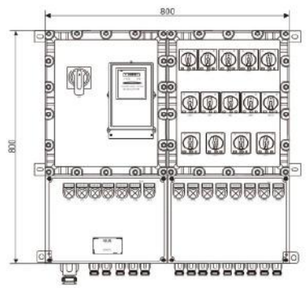
BXX(D)-4K



BXX(D)-8K



BXX(D)-6K



BXX(D)-14K

PS Rittal-style Enclosure Cabinet

FUCHEN ELECTRIC
PS RITTAL-STYLE
ENCLOSURE CABINET



DIGITAL FACTORY, INTELLIGENT MANUFACTURING

Product Description

The PS Rittal-style enclosure cabinet is suitable for a wide range of industrial applications and provides comprehensive protection for electrical and electronic equipment.

Applications / Intended Use: Industrial control and enclosure assemblies for electrical and electronic equipment.

Functions / Features: Mechanical frame construction; foamed door-frame sealing; door opening angle >130°; standard lifting eyes, door limiter, cabinet light, light switch and document pocket.

Main Technical Parameters

Product Name	Dimension (W × H × D)	Door Thickness	Body Thickness	Mounting Plate Thickness	Product illustration
Five-Fold Rittal-Style Enclosure Cabinet Series	600×1200×400	1.5	1.2	2.0	
	600×1500×400	1.5	1.2	2.0	
	700×1500×400	1.5	1.2	2.0	
	700×1700×400	2.0	1.5	2.0	
	800×1800×400	2.0	1.5	2.0	
	800×1800×600	2.0	1.5	2.0	
	800×2000×600	2.0	1.5	2.0	

Product Name	Dimension (W × H × D)	Profile Thickness	Door Thickness	Side Plate Thickness	Side Plate Thickness	Product illustration
Nine-Fold Rittal-Style Enclosure Cabinet Series	800×1800×600	1.5	2.0	1.5	2.5	
	800×2000×600	1.5	2.0	1.5	2.5	
	1000×1800×600	1.5	2.0	1.5	2.5	
	1000×2000×600	1.5	2.0	1.5	2.5	
	1200×1800×600	1.5	2.0	1.5	2.5	
	1200×2000×600	1.5	2.0	1.5	2.5	

Product Name	Dimension (W × H × D)	Door Thickness	Body Thickness	Mounting Plate Thickness	Product illustration
Sixteen-Fold Rittal-Style Enclosure Cabinet Series	800×1800×600	1.5	1.2	2.0	
	800×2000×600	1.5	1.2	2.0	
	1000×2000×600	1.5	1.2	2.0	
	1000×2200×600	2.0	1.5	2.0	
	1200×2200×600	2.0	1.5	2.0	

FK
VFD Cabinet

FUCHEN ELECTRIC
FK VFD CABINET



DIGITAL FACTORY, INTELLIGENT MANUFACTURING

Product Description

The FK VFD cabinet is a control cabinet using a variable frequency drive to operate power equipment. It is mainly used for motor speed regulation, energy saving and automated control.

Model Designation / Coding

FK □ -□□□□

- Depth
- Width
- Height
- 0.75KW-1000KW
- Xf = Indoor, Ff = Outdoor
- Manufacturer Code

Applications / Intended Use

Water supply for high-rise buildings; fire-fighting/domestic water supply; industrial circulating water; boiler make-up water; heating circulation pumps; air compressors; pumping stations; secondary pressurization in petrochemical facilities; and production-line motor control.

Functions / Features

Variable-frequency speed control; optional PLC and HMI touch screen; short-circuit, overcurrent and overload protection.

Main Technical Parameters

Rated Voltage / Operating Voltage	Configured according to system and motor voltage	
Rated Capacity	KW	Power range 0.75–1000
Degree of Protection / IP Rating	IP20/IP30 (typical series)	
Construction / Structural Features	Cabinet-type VFD control; optional bypass / power-frequency circuit, PLC, HMI touch screen, instruments, etc.	



Global Service Network



Service Network Coverage — Support You, Wherever You Are

We are committed to delivering reliable products and responsive service worldwide. From pre-sales consultation to after-sales support, our professional team is always ready to help your business grow.

Brazil

Deeply Rooted in a Full Range of Electrical Equipment, Advancing Toward a Digital and Intelligent Future.

Product export



FUKEN

1 Premium Quality

Built to International Standards

2 Advanced Engineering

Precision, Performance, Durability

3 Global Solutions

Trusted by Partners Worldwide

4 Dedicated Support

Reliable Service, Every Time







Core Strengths

SHANXI FUKEN ELECTRIC CO., LTD

Trusted by customers worldwide, we deliver power solutions across

4+	60+	100+	6000M²
Department	Technician	Employee	Factory







OEM & ODM SERVICES

OEM Manufacturing brand | ODM Solutions | Fast Delivery

Technical Support | 24/7 Response