

WETOWN

SMART ENERGY FOR THE FUTURE

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Pro S 202304

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Pro S

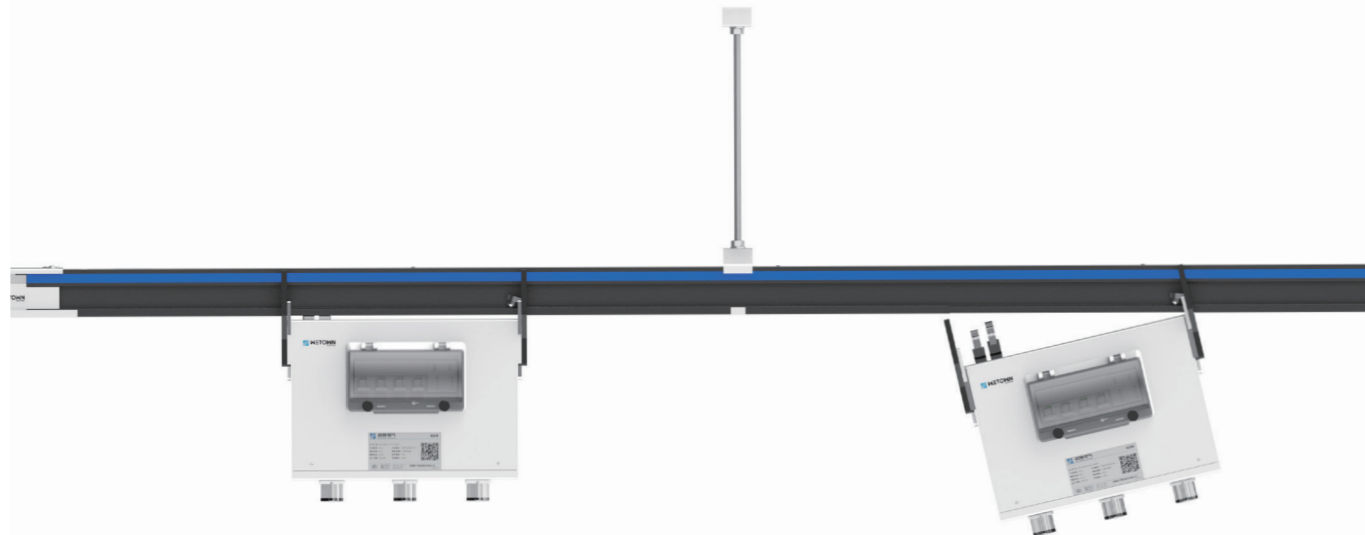
Track Busway



WETOWN

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Pro S Track Busway



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Company Profile

Wetown Electric (SH. 688226) mainly covers two business segments: power distribution and new energy, and is committed to providing high-quality solutions and services for customers in power, new energy, data communication, rail transit, industrial manufacturing and other industries

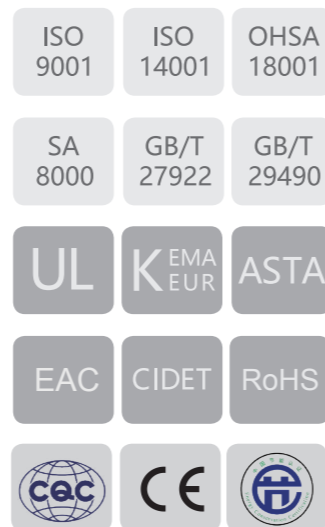
Core value: Customer Orientation, Innovation and Foresight, Accountability

Capability & advantage

- Dedicated in electric product development and manufacturing for over 30 years, with the key business: busway, switchboard, electrical components, PV ribbon, copper/aluminum conductors;
- Large scale of intelligent manufacturing system and complete industrial chains in busway industry;
- Comprehensive international certifications including KEMA, ASTA, UL, CE;
- "Well-known Trademark in China" and "the Most influential national brand in electrical industry".

Global coverage

Wetown has wide global coverage with thousands of installation basis in over forty countries including South-east Asia, India, Middle East, Africa, Russia, Europe, Latin America, Australia etc.

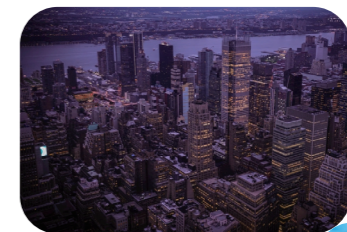


System Overview

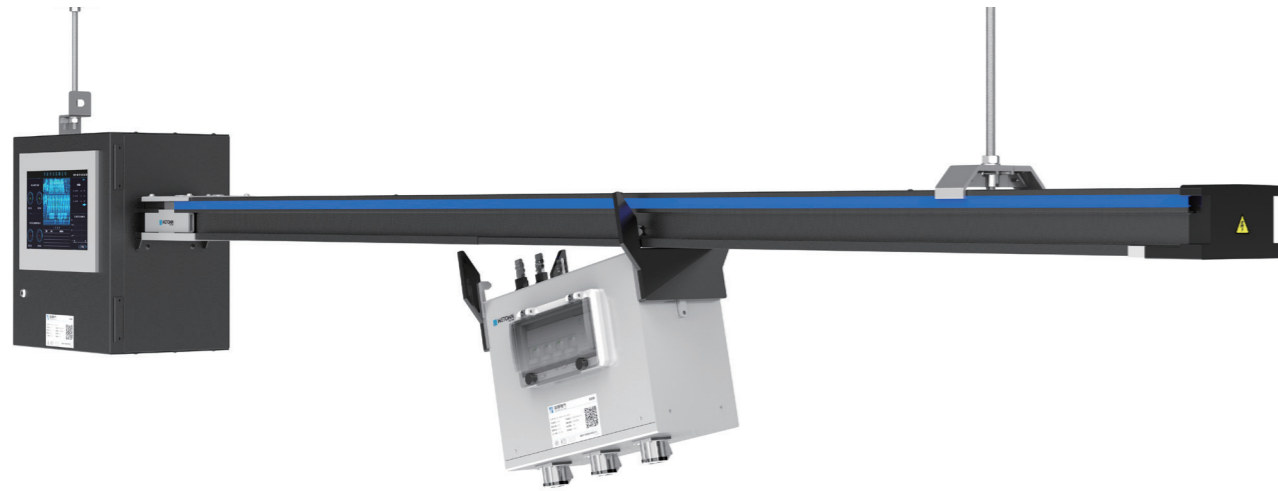
The Pro S track busway can meet the power demand of 160-1000A, and the current of the tap-off unit circuit breaker frame is from 16A-125A, The product structure adopts a 3P5W system, and the output include single circuit, 3-circuit, 6-circuit and other specifications.

The whole series of products are compatible with the tap-off unit, and the originality realizes the structural of the slide rail type tap-off unit. The installation of the tap-off unit is automatically locked, and the entire length of the busway can be plugged in to take power. The elastic joint completely eliminates the risk of the traditional joint fastening bolt loosening.

Pro S series products are suitable for a variety of indoor scenarios, such as data centers, light industrial plants, medical buildings and other occasions, with the advantages of low temperature rise, good heat dissipation, high power distribution efficiency, flexible branching, stable and reliable.

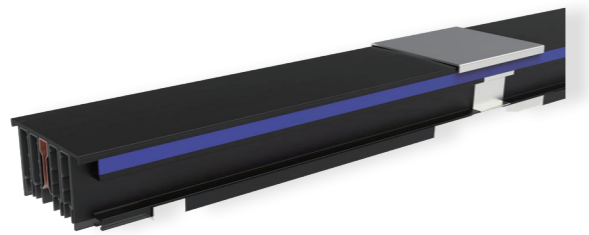


Product Features

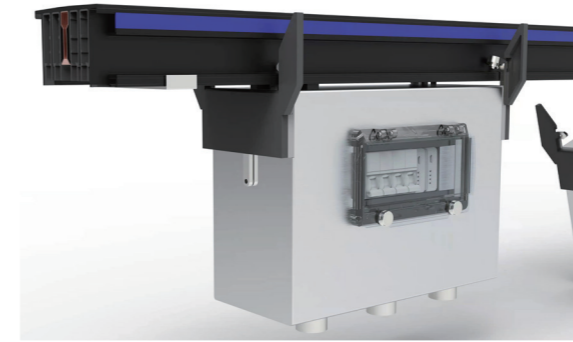


Track busway

- Busway 160A-1000A
- Tap-off unit 16A-100A
- Insertion at any position of linear segment
- Full range of ultra-low temperature rise
- Elastic fixation of joint
- Telemetry, remote signaling, remote regulation and remote control



Product Features



Plug in power at any position

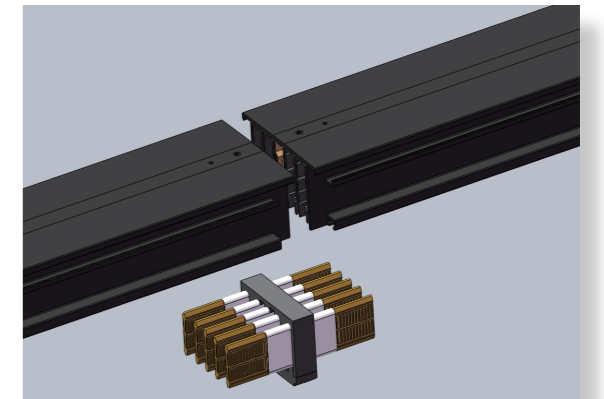
- Fully pluggable
- Millimeter adjustment
- Take power freely

Original slide rail tap-off unit

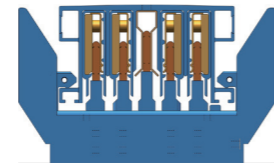
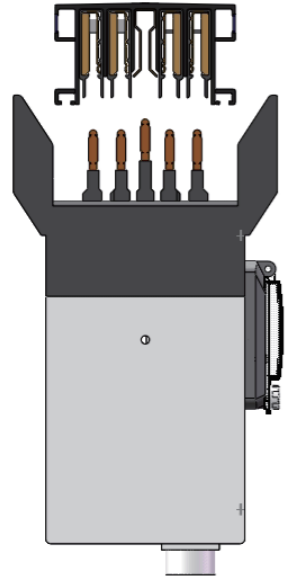
- Easy hanging and arbitrary sliding
- Automatic locking without tools
- Single person operation, fast completion

Elastic contact joint (patent)

- Integral installation
- No risk of loosening
- Automatic contact pressure balancing
- Installation error redundancy



Product Features



Safe and reliable joint

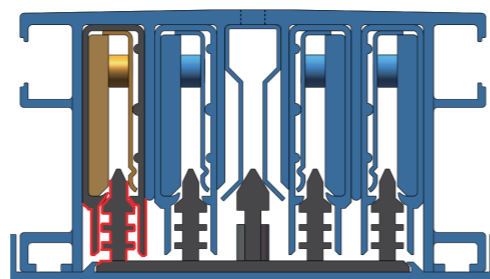
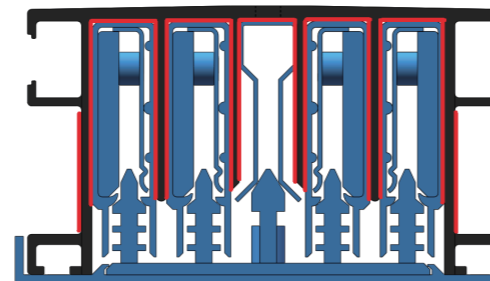
- Double side contact self limiting
- Automatic locking in place (patent)
- PE pin comes out first

Excellent thermal conductivity and heat dissipation

- Heat dissipation area increased to 150%
- Heat dissipation effect increased by 30%

Safe structural design

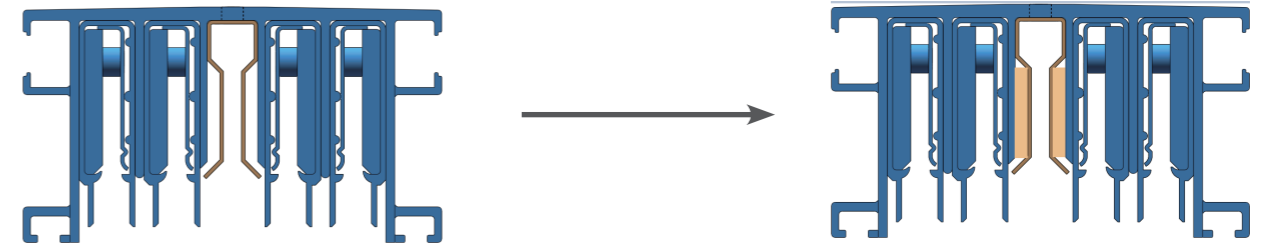
- No risk of interphase short circuit
- The maximum creepage distance is 60mm



Product Features

Expandable grounding system

- Independent PE expandable (up to 100%)
- Installation position can be customized



Modular product structure design

- Common to busway standard parts
- Universal for all series of tap-off units
- Flexible application scenarios

Flexible adjustment and customization

- Plug in assembly
- Standard groove sealing strip
- Snap closure plate

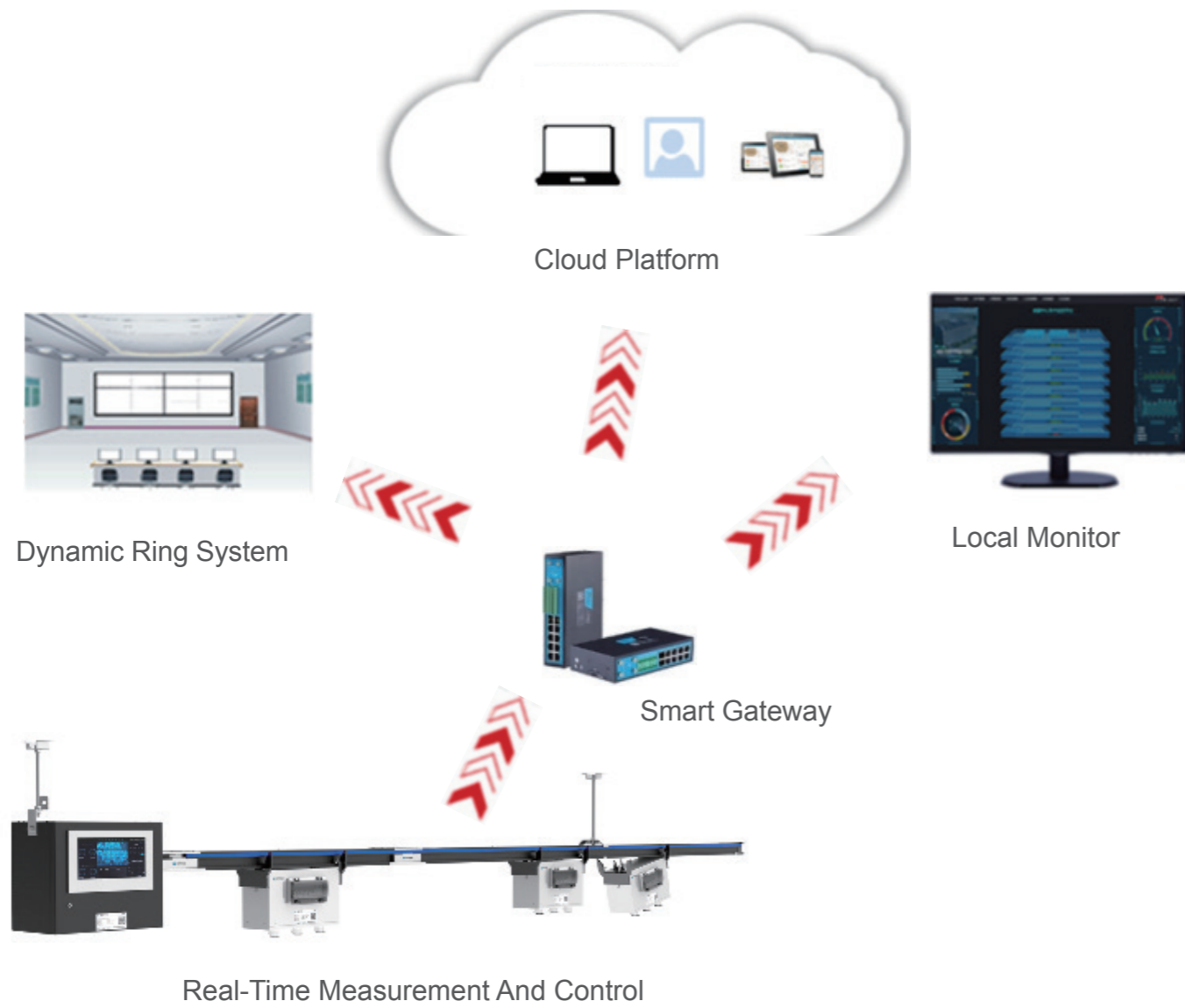


Product Features

Intelligent solutions

- GB/T 7251.8-2020
- Telemetry, remote signaling, remote regulation and remote control
- Cloud background and APP real-time operation

Overview



Technical Parameter

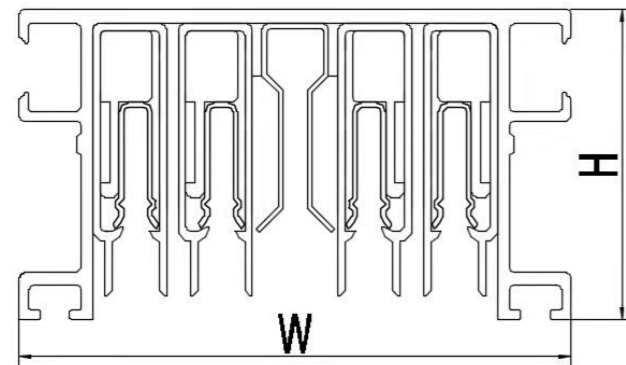
General parameters

Main material		
Conductor	T2 electrolytic copper	
Enclosure	Aluminum magnesium silicon alloy	
Conductor surface finish	Full-length silver plating	Can be changed according to user requirements
Enclosure finish	Epoxy resin powder electrostatic spraying	Can be changed according to user requirements
Structural properties		
Busway	IP42	
Tap-off unit	IP42	
Wire system	3L+N+PE	
Tap-off unit output	Single circuit Three-circuit Six-circuit	Configure according to user requirements
Normal use conditions		
Place of use	Household	
Ambient temperature low	-5 °C	
Ambient temperature high	+ 50 °C	
Ambient air temperature - maximum daily mean temperature	+ 35 °C	
Maximum relative humidity	Relative humidity nmt 50% at 40°C	
Environmental pollution level	Grade 2	
Installation site altitude	≤ 2000m	
Installation mode	Horizontal mounted, can be hoisted or mounted in cable slots under floor	
Product certification		
250Aac-1000Aac/315Adc-1600Adc full range of bus KEMA-KEUR and CE certification		
16-100A full range of tap-off units DEKRA and CE certification		
250Aac-1000Aac busbar and 16-100A tap-off unit CCC Type II voluntary certification		
315Adc-1600Adc busbar CQC low-voltage DC complete switchgear safety certification		
GB/T 7251.8 Intelligent Complete Equipment Certification		
YD 5083 Class 9 seismic certification		
IEC 60068-3-3 zone4 seismic certification		

Technical Parameter

Busway parameters

Alternating current (AC) current class A	-	250	400*	400**	500	630	800	1000
Direct current (DC) current class A	315	400	630	-	800	1000	1200	1600
Bus section height H/mm	70						78	95
Bus section width W/mm	120							
Rated short-time withstand current kA (CCC)	10		30			40	50	
Rated peak withstand current kA(CCC)	17		63			80	105	
Rated short-time withstand current kA (KEMA-KEUR)	10		-	20	30	40	50	
Rated peak withstand current kA (KEMA-KEUR)	17		-	40	63	80	105	
Rated working voltage (without tap-off unit) V	1000							
Rated working voltage (with tap-off unit) V	400							
Rated insulation voltage (without tap-off unit) V	1000							
Rated insulation voltage (with tap-off unit) V	500							
Rated impulse withstand voltage (without tap-off unit) kV	8							
Rated impulse withstand voltage (with tap-off unit) kV	6(63A and below)/4(63-125A)							
Resistance R20 (mΩ/m)	-	0.3591	0.2298	0.1436	0.1149	0.0912	0.0718	0.0575
Reactance X (mΩ/m)	-	0.267	0.1709	0.1068	0.0854	0.0678	0.0534	0.0427
Impedance Z20 (mΩ/m)	-	0.4475	0.2864	0.179	0.1432	0.1136	0.0895	0.0716
400* is an economic type with low short-term resistance; 400** is a high-short-time performance type; 400** only has CCC certification, and other AC and DC specifications have KEMA-KEUR, CE and CCC/CQC certification								
X of 630A busbar is measured value, R20 and Z20 are calculated values, and R20, X and Z20 of other current levels are theoretically calculated values								

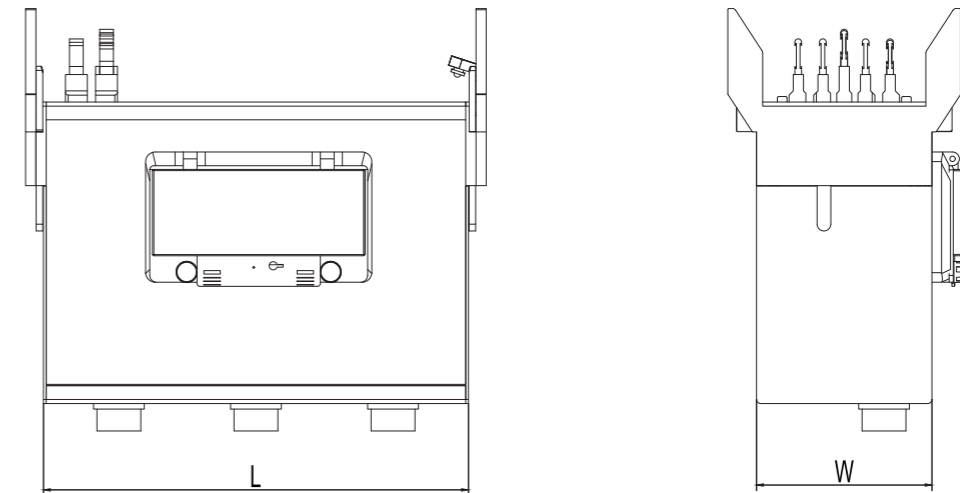


Technical Parameter

Tap-off unit parameters

Frame current of tap-off unit circuit breaker A	16~63A	80~125A
Tap-off unit height (H/mm)	220	
Connector box thickness (W/mm)	128	
Tap-off unit length (3-way output tap-off unit) (L/mm)	336*	550*
Intelligent module (U, I, GB/T 7251.8-2020)	Optional	
Intelligent module (U, I, T, GB/T 7251.8-2020)	Optional	
Tap-off unit output channel	Standard 3-way, optional single-way, 6-way	
Tap-off unit output form	Standard fixed socket, optional active socket or cable terminal	
Tap-off unit installation form	Vertical/Horizontal	

*The length and dimension of the tap-off unit may vary according to the configuration

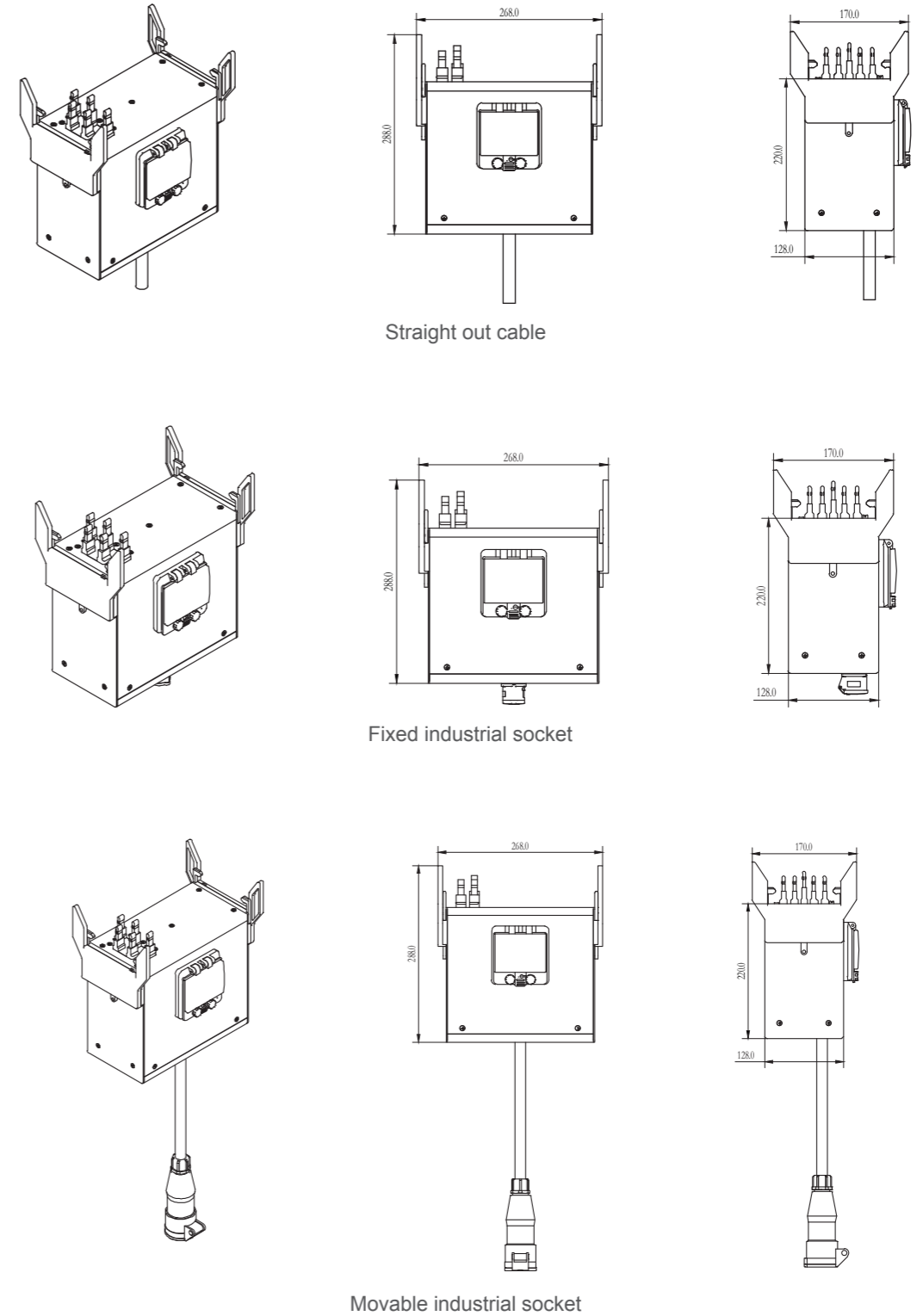


Function Unit

Outline dimension drawing of tap-off unit

Tap-off unit output	Single circuit single-phase
Tap-off diagram (e.g. circuit-breaker protection)	<p>Pin A/B/C Pin N Pin PE</p> <p>CT</p>
Rated current (A)	16~100A
Dimensions (L×W×H mm)	268 × 170 × 220
Installation mode	Vertical
Simulation diagram	
Outlet	Straight out cable Fixed industrial socket Movable industrial socket

Function Unit



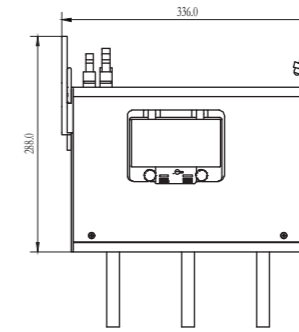
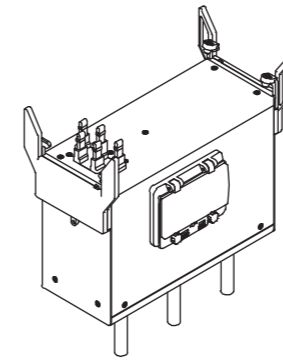
Note: The standard configuration is three-circuit single-phase, which can be customized according to user requirements.

Function Unit

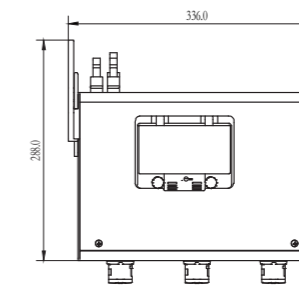
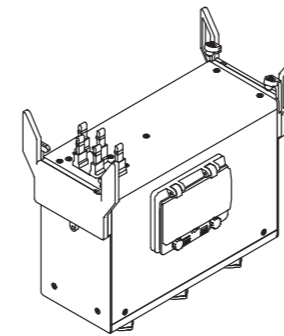
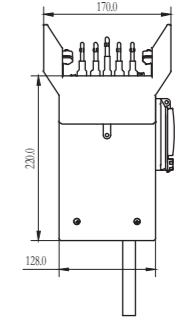
Outline dimension drawing of tap-off unit

Tap-off unit output	Three-circuit single-phase
Tap-off diagram (e.g. circuit-breaker protection)	
Rated current (A)	16~100A
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Simulation diagram	
Outlet	Straight out cable Fixed industrial socket Movable industrial socket

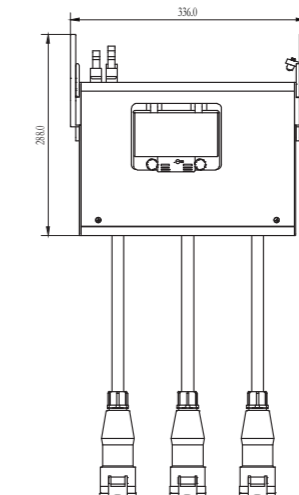
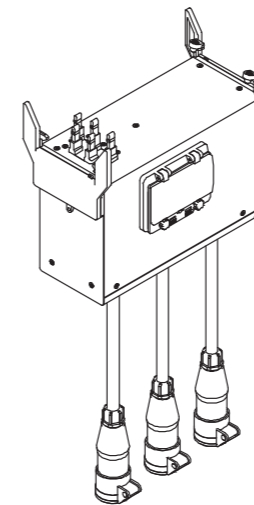
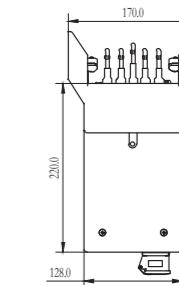
Function Unit



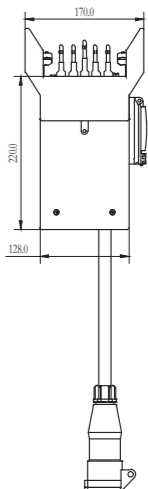
Straight out cable



Fixed industrial socket



Movable industrial socket



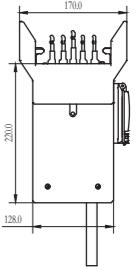
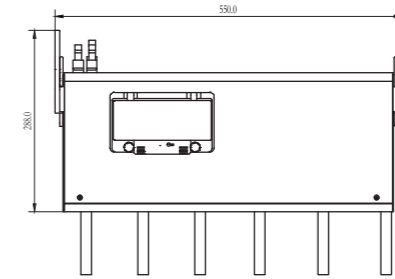
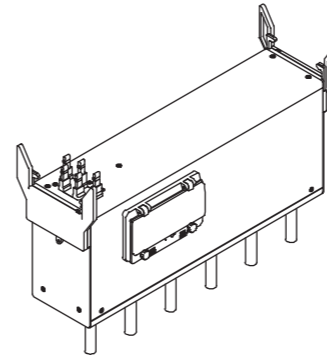
Note: The standard configuration is three-circuit single-phase, which can be customized according to user requirements.

Function Unit

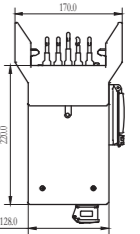
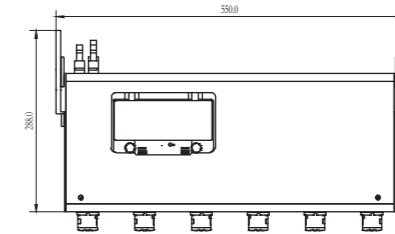
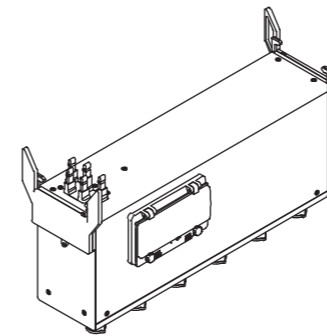
Outline dimension drawing of tap-off unit

Tap-off unit output	Six-circuit single-phase
Tap-off diagram (e.g. circuit-breaker protection)	
Rated current (A)	16~100A
Dimensions (L×W×H mm)	550 × 170 × 220
Installation mode	Vertical
Simulation diagram	
Outlet	Straight out cable Fixed industrial socket Movable industrial socket

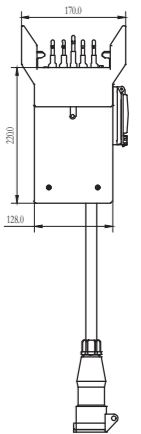
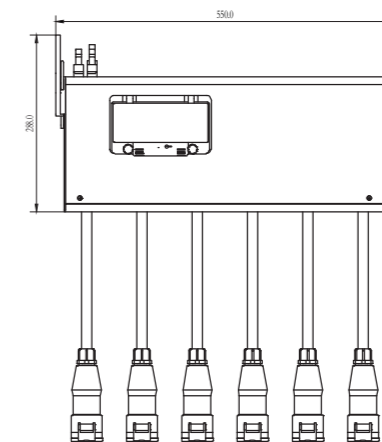
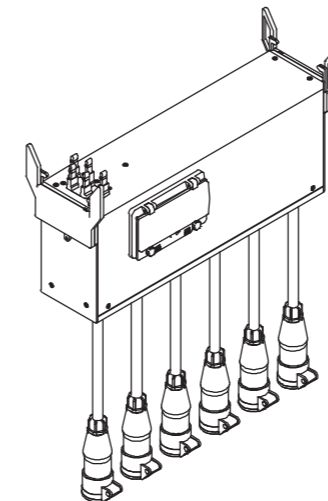
Function Unit



Straight out cable



Fixed industrial socket



Movable industrial socket

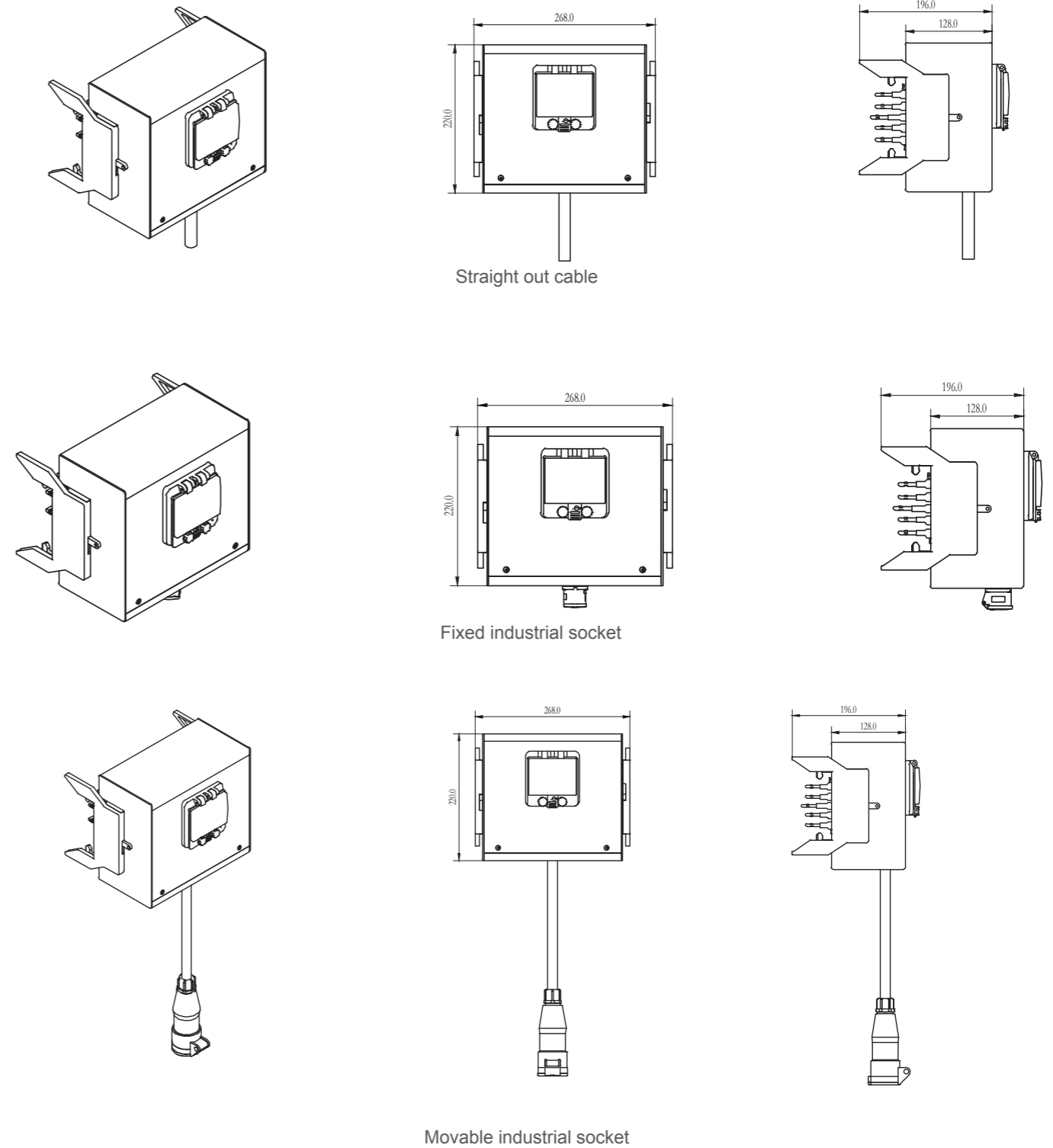
Note: The standard configuration is three-circuit single-phase, which can be customized according to user requirements.

Function Unit

Outline dimension drawing of tap-off unit

Tap-off unit output	Single circuit single-phase
Tap-off diagram (e.g. circuit-breaker protection)	
Rated current (A)	16~100A
Dimensions (L×W×H mm)	268 × 128 × 220
Installation mode	Horizontal
Simulation diagram	
Outlet	Straight out cable Fixed industrial socket Movable industrial socket

Function Unit



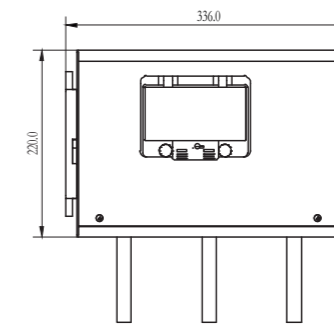
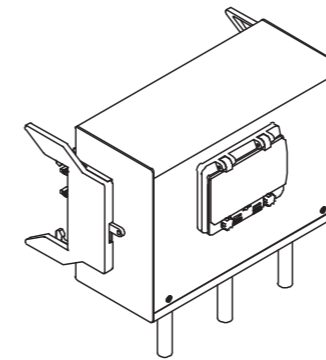
Note: The standard configuration is three-circuit single-phase, which can be customized according to user requirements.

Function Unit

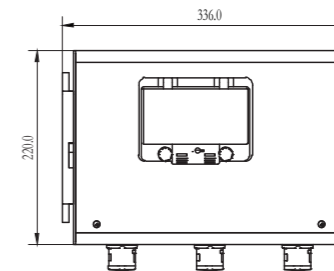
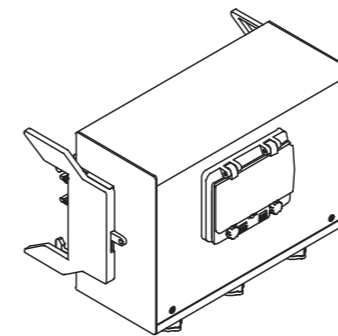
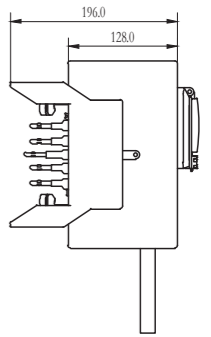
Outline dimension drawing of tap-off unit

Tap-off unit output	Three-circuit single-phase
Tap-off diagram (e.g. circuit-breaker protection)	
Rated current (A)	16~100A
Dimensions (L×W×H mm)	336 × 128 × 220
Installation mode	Horizontal
Simulation diagram	
Outlet	Straight out cable Fixed industrial socket Movable industrial socket

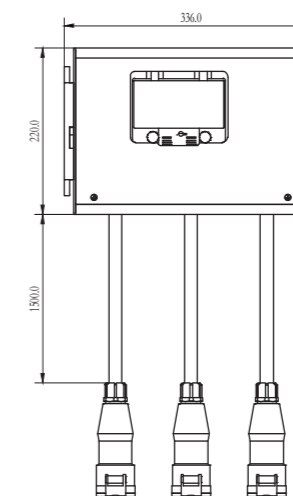
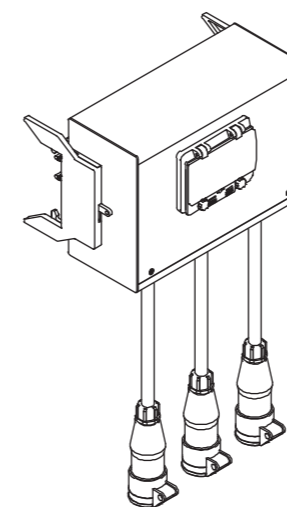
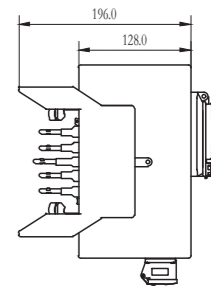
Function Unit



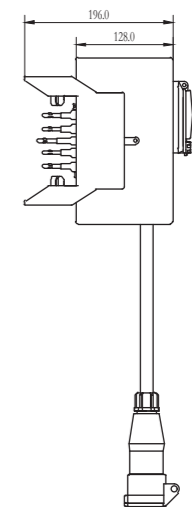
Straight out cable



Fixed industrial socket



Movable industrial socket



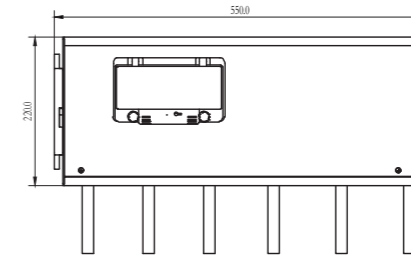
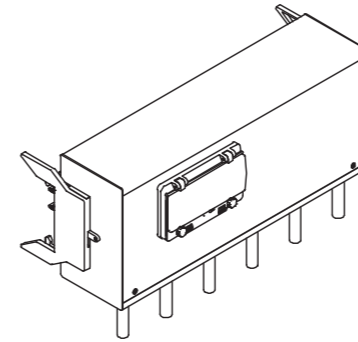
Note: The standard configuration is three-circuit single-phase, which can be customized according to user requirements.

Function Unit

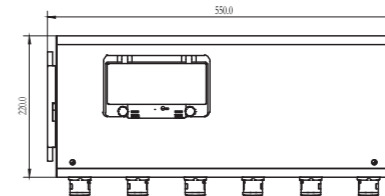
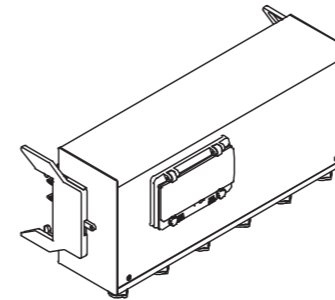
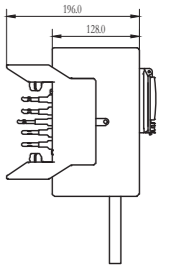
Outline dimension drawing of tap-off unit

Tap-off unit output	Six-circuit single-phase
Tap-off diagram (e.g. circuit-breaker protection)	
Rated current (A)	16~100A
Dimensions (L×W×H mm)	550 × 128 × 220
Installation mode	Horizontal
Simulation diagram	
Outlet	Straight out cable Fixed industrial socket Movable industrial socket

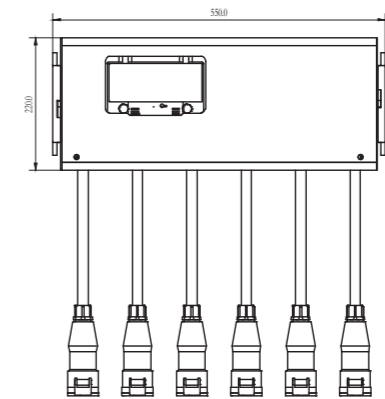
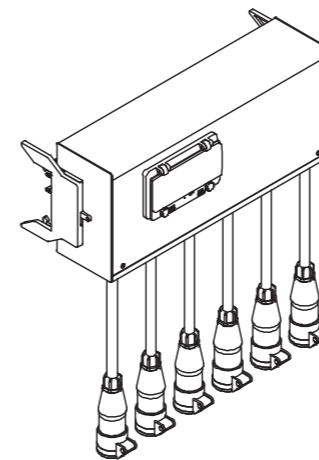
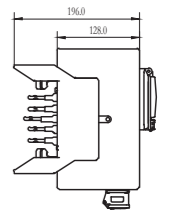
Function Unit



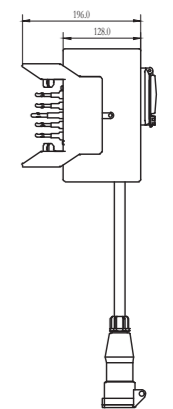
Straight out cable



Fixed industrial socket

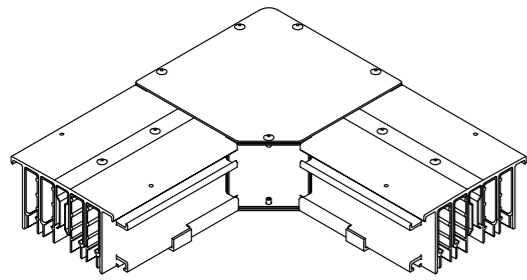


Movable industrial socket

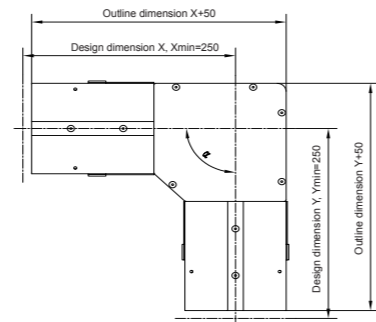


Note: The standard configuration is three-circuit single-phase, which can be customized according to user requirements.

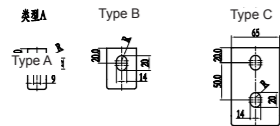
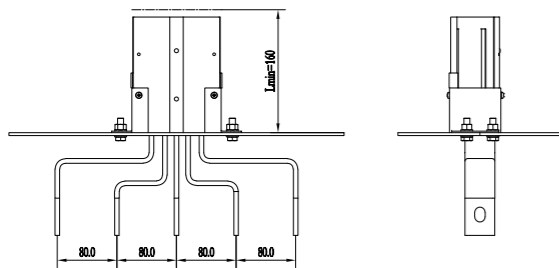
Function unit



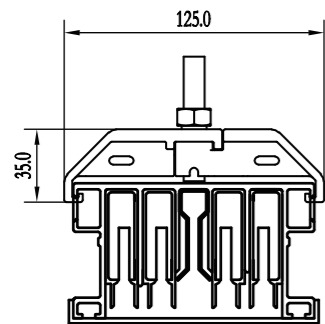
Elbow



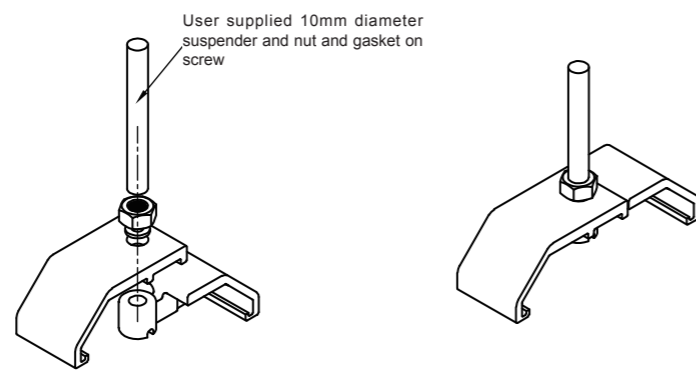
Noted: Customizable angle



Flange end

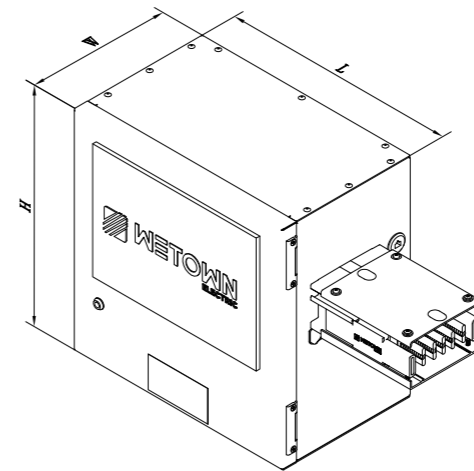


Hanger

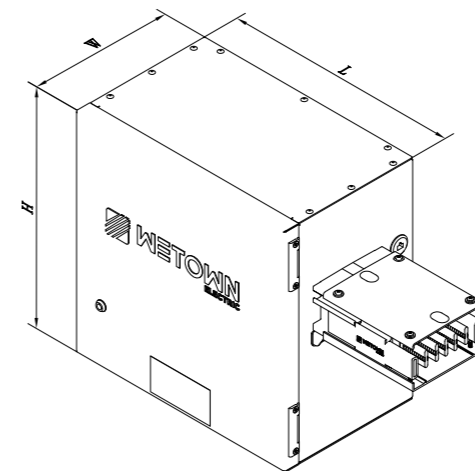


Function Unit

Feeder box with touch screen



Feeder box without touch screen



Intelligent Monitoring Module

The functions of electric energy and temperature monitoring devices are listed below.

Function description of electric energy monitoring device IBT403-M1:

IBT403-M1 Functional Table	
Measuring function	Phase/Line Voltage
	Current
	Active/reactive power
	Apparent power
	Power Factor
	Mains Frequency
	Voltage/Current total distortion rate
	Fundamental voltage/current
Metering function	Positive/reverse with/without power
	Apparent energy
	Fundamental Forward/Reverse Active/Reactive Energy
Extreme Value Record	Daily extreme data recording (phase voltage, line voltage, current, power, power factor, grid frequency)
	Monthly extreme data recording (phase voltage, line voltage, current, power, power factor, grid frequency)
	Annual Extreme Value Data Recording (Phase Voltage, Line Voltage, Current, Power, Power Factor, Mains Frequency)
Data storage	Electrical parameters according to storage (phase/line voltage, current, active/reactive power, apparent power, power factor, grid frequency, voltage/current total distortion rate, fundamental voltage/current, forward/reverse active/reactive power, apparent power)
	Power data storage (forward/reverse with/without power, apparent power)
	Alarm information storage (voltage, current, active power, reactive power, power factor, grid frequency)
Parameter Settings	Threshold, Variation Ratio, and Other Parameter Settings

Function description of temperature monitoring device IBT403-T1:

IBT403-T1 Functional Form	
Measuring function	Four-way temperature measurement
Extreme Value Record	Daily Temperature Extreme Data Logging
	Monthly Extreme Temperature Data Logging
	Annual Extreme Temperature Data Record
Data storage	Temperature Data Storage
	Alarm information storage
Parameter Settings	Alarm Temperature Value Setting

Intelligent monitoring module

IBT403-M1 Technical Specification Sheet	
Working environment	
Operating Temperature	20 ° C to 60 ° C
Storage Temperature	25 ° C to 70 ° C
Relative humidity	≤ 93%
Operating Altitude	≤ 2500m
Protection Class	IP20
Insulation	Insulation resistance between terminal and conductive parts of ENCLOSURE not less than 100 MΩ
Pressure resistance	Voltage and current signal input, relay output, RS 485 communication, switching input shall be AC2kV for 1 min, leakage current shall be less than 2 mA, without breakdown or flashover.
Electromagnetic compatibility	
Antistatic interference	Level 3
Radiated resistance to radio frequency electromagnetic fields	Level 3
Electrical fast transient/burst immunity	Level 3
Anti-surge interference	Level 3
Voltage Input	
Range	Range 3 × 220V/380V
Resolution	0.1V
Overpressure	Continuous 1.2 times, instantaneous: 2 times/10s
Current Input	
Range	External Current Transformer
Communication Interface COM1	
Physical interface	RS 485
Communication port	Accessible to moving-ring or touchscreen or other communications equipment
Communication Rate	9600, 19200 bps
Communication Protocol	Modbus-RTU
Communication Interface COM2	
Physical interface	RS 485
Communication port	Accessible to moving-ring or touchscreen or other communications equipment
Communication Rate	9600, 19200 bps
Communication Protocol	Modbus-RTU

Intelligent Monitoring Module

IBT403-T1 Technical Specifications:

IBT403-T1 Technical Specification Sheet	
Working environment	
Operating Temperature	20 ° C to 60 ° C
Storage Temperature	25 ° C to 70 ° C
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Pressure resistance	Voltage and current signal input, relay output, RS 485 communication, switching input shall be AC2kV for 1 min, leakage current shall be less than 2 mA, without breakdown or flashover.
Electromagnetic compatibility	
Antistatic interference	Level 3
Radiated resistance to radio frequency electromagnetic fields	Level 3
Electrical fast transient/burst immunity	Level 3
Anti-surge interference	Level 3
Temperature measurement	
Number of Input Routes	4 way
Measuring range	-20 to 120 ° C
Measuring accuracy	± 1 ° C
Communication Interface COM1	
Physical interface	Accessible to moving-ring or touchscreen or other communications equipment
Communication Rate	9600, 19200 bps
Communication Protocol	Modbus-RTU
Communication Interface COM2	
Physical interface	Accessible to moving-ring or touchscreen or other communications equipment
Communication Rate	9600, 19200 bps
Communication Protocol	Modbus-RTU

IBT403-M1 Appearance Overview



Intelligent monitoring module

IBT403-M1

- Power supply: AC220V
- indicator light:
 1. Power indicator light
 2. Running indicator light
 3. Communication indicator light
 4. Alarm indicator light
- Communication port:
 - 2 RS485
- Voltage access port
- Current access port
- Software upgrade interface
- Installation method: guide rail installation



IBT403-T1

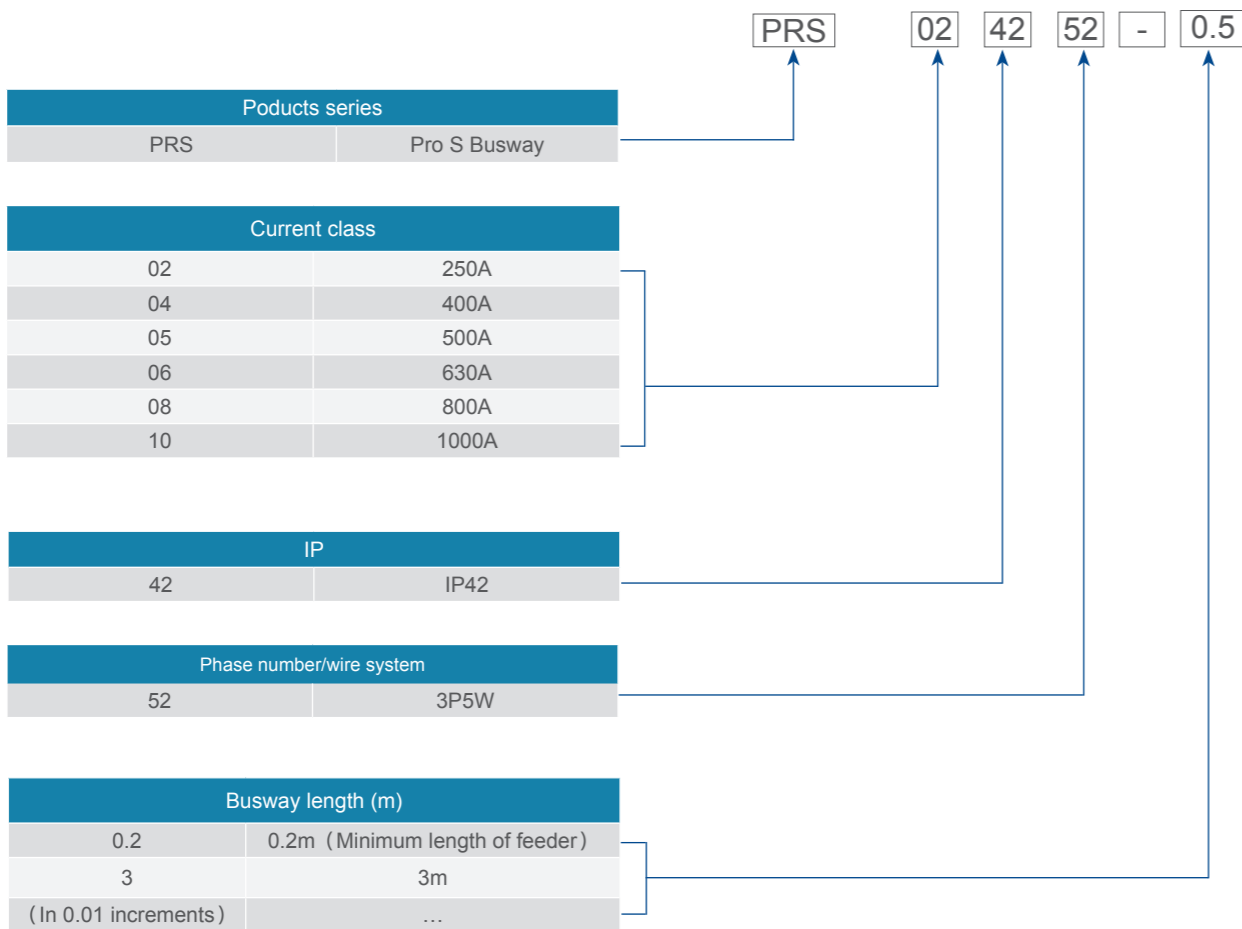
- Power supply: AC220V
- indicator light:
 1. Power indicator light
 2. Running indicator light
 3. Communication indicator light
 4. Alarm indicator light
- Communication port:
 - 2 RS485
- Temperature measurement resistor access port
- Software upgrade interface
- Installation method: guide rail installation

Product Code

Product Code

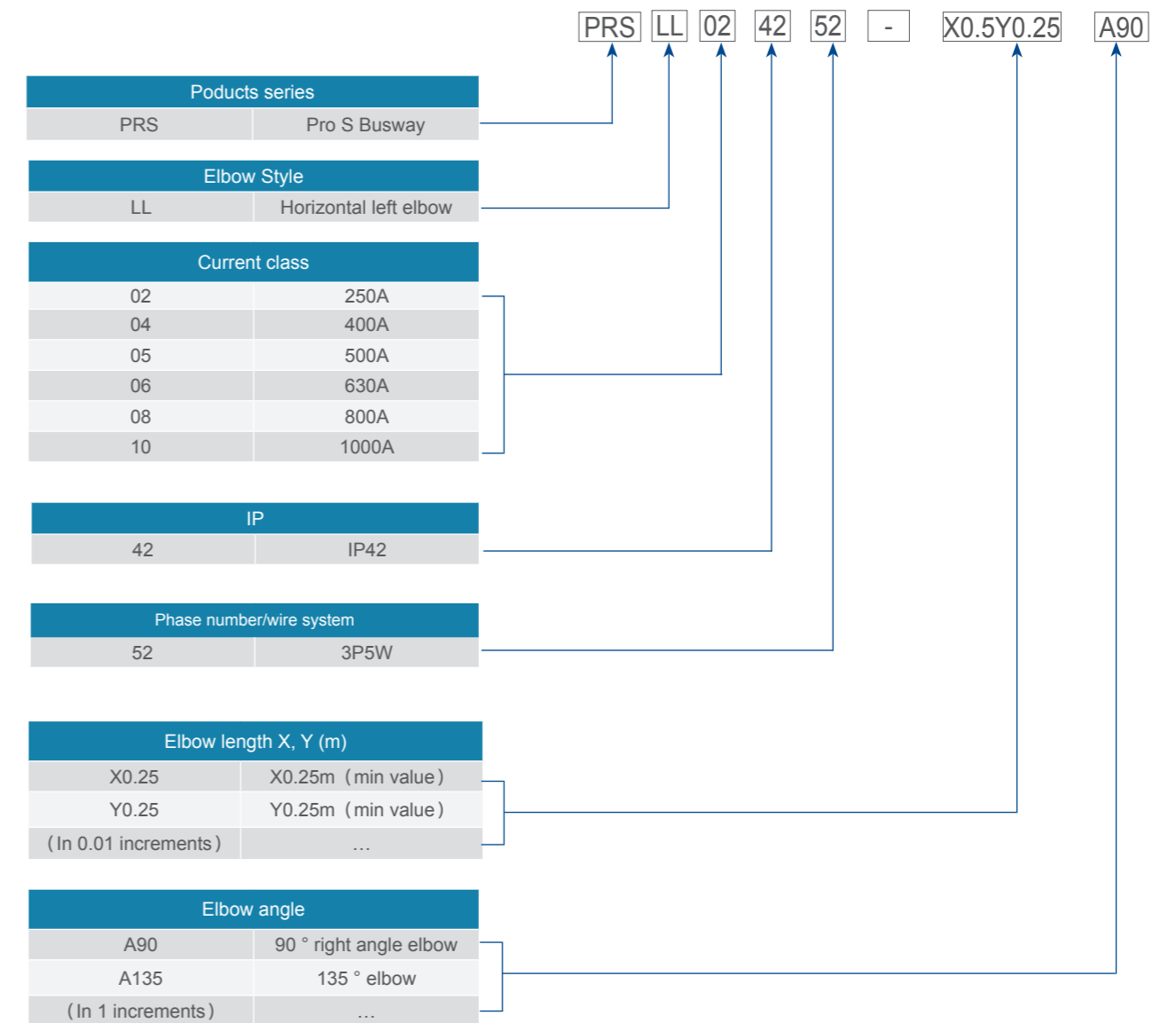
Pro S straight

Example:
 PRS024252-3
 PRS064252-1.5



Pro S elbow

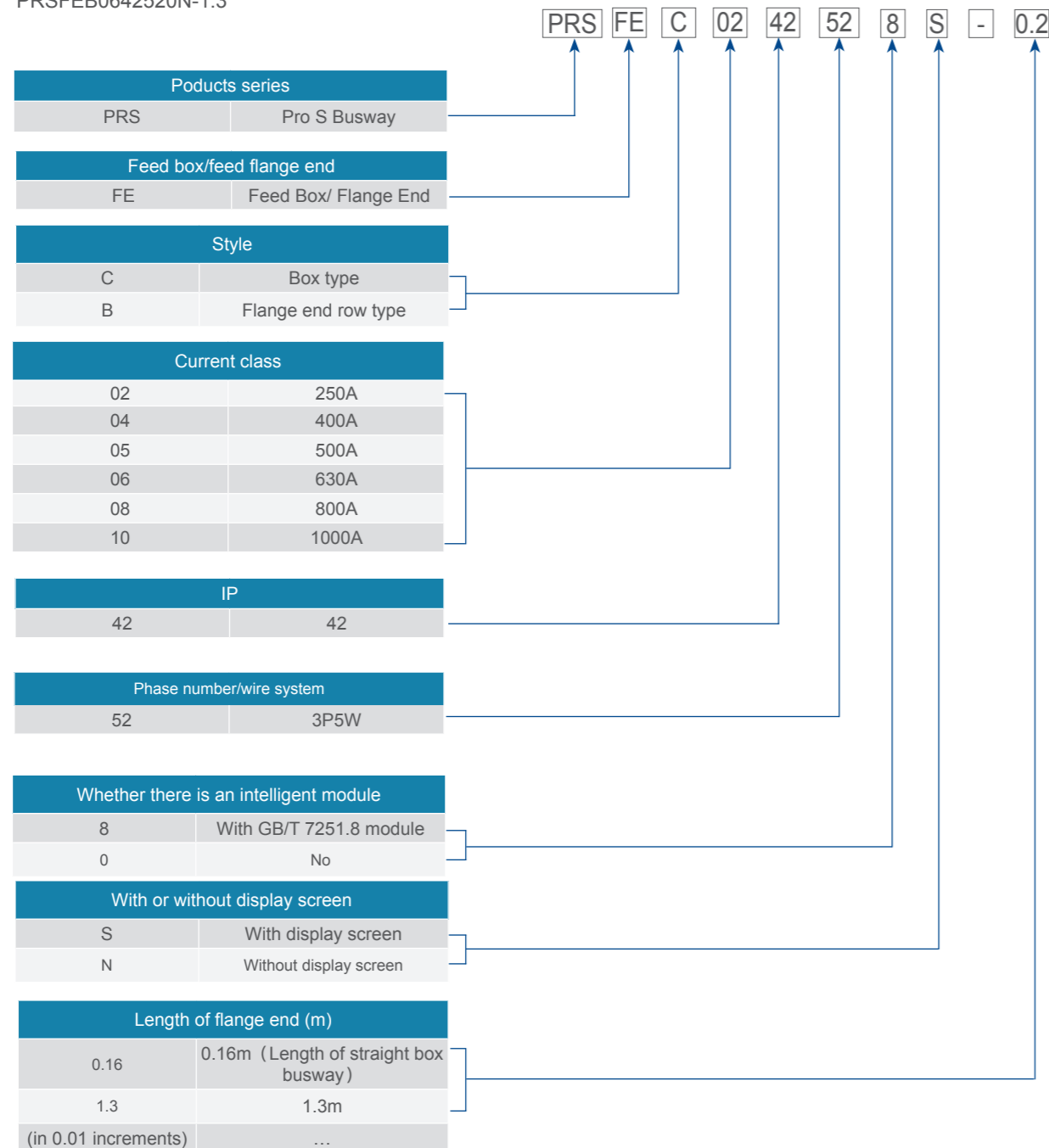
Example:
 PRSLL064252-X0.25Y0.25A90
 PRSLL044252-X0.5Y0.25A135



Product Code

Pro S feed box/feed flange end

Example:
 PRSFEC0242528S-0.5
 PRSFEB0642520N-1.3



Product Code

Pro S tap-off unit

Example:
 PRSPRV0642318
 PRSPRH1242330

