

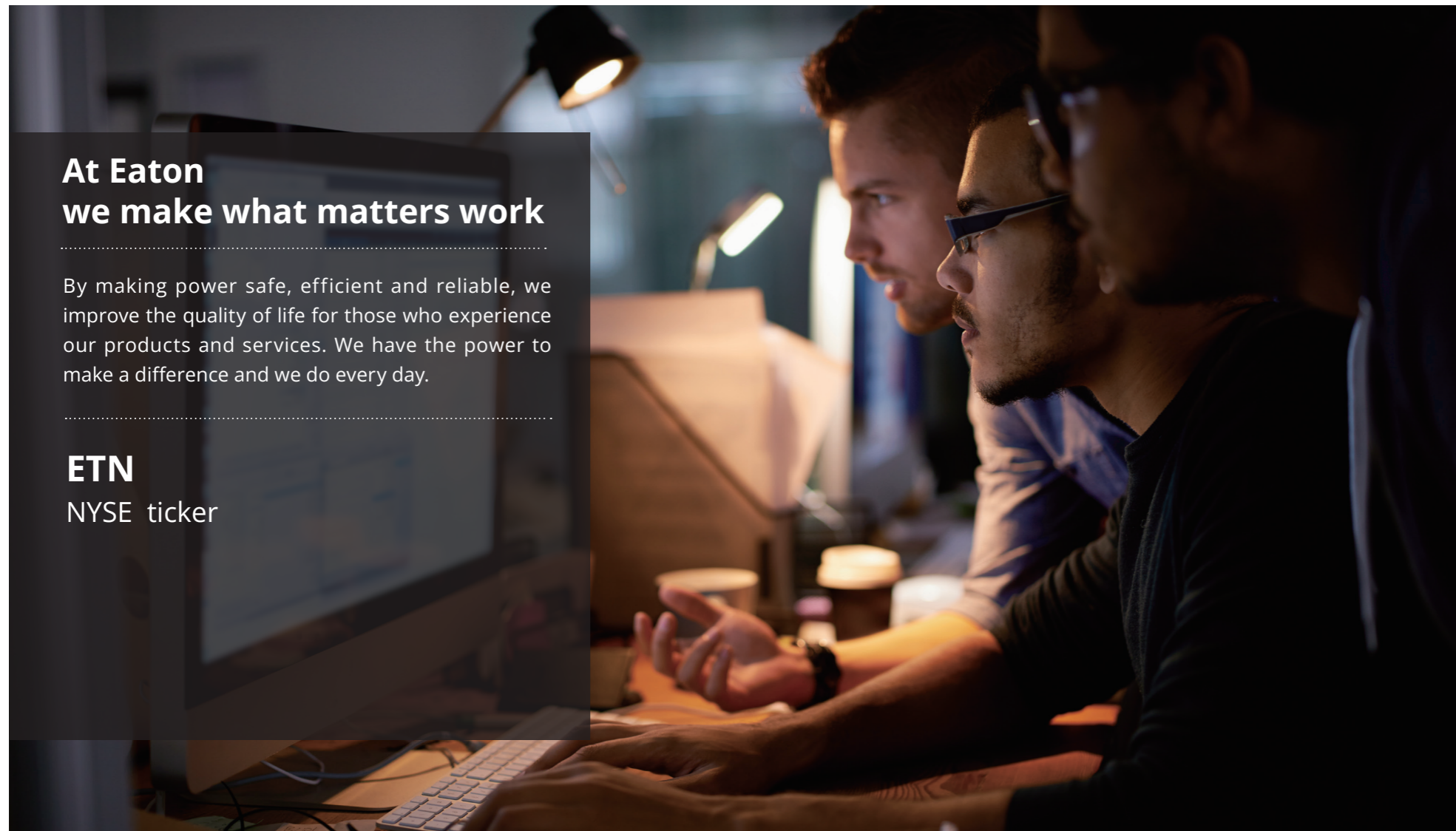
XAP Track Pro Busway

Rated current 250-1000A



We're dedicated to improving people's lives and the environment with power management technologies that are more reliable, efficient, safe and sustainable.

Our energy-efficient products and services help our customers effectively manage electrical, hydraulic and mechanical power more reliably, efficiently, safely and sustainably. By giving people tools to use power more efficiently. Helping companies do business more sustainably. And by encouraging each and every employee at Eaton to think differently about our business, our communities—and the positive impact we can have on the world.



**At Eaton
we make what matters work**

By making power safe, efficient and reliable, we improve the quality of life for those who experience our products and services. We have the power to make a difference and we do every day.

ETN
NYSE ticker

SINCE 1911

Eaton was founded by Joseph Eaton in 1911 and started to produce Power distribution busway in 1935.

Based on local manufacturing

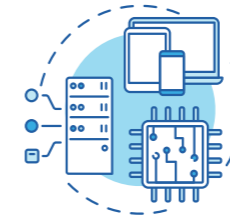
Eaton Busway (Jiangsu) Co.,Ltd

According to Eaton's innovative spirit, one hundred years of technology accumulation and the development ability of the Asia Pacific market, Eaton busway factory has continuously introduced new products, It has realized the independent R & D and manufacturing of busway in the Asia Pacific region, providing customers with high-quality products and satisfactory solutions.



Top manufacturing solutions

Eaton busway manufacturing plant covers an area of 23,000 square meters and has the industry's top manufacturing solutions to fully ensure the high-precision manufacturing of products.



Advanced insulation technology

Self research and development fully automatic Polyester film insulation wrapping equipment
Improve the standardization of product manufacturing



Full automatic busway assembly line

integrating assembly, inspection and packing together, effectively guarantees delivery time and greatly improves project execution.



Intelligent warehousing improves delivery efficiency

Intelligent warehouse can accept more busway, and the storage capacity is 4 times that of the traditional warehouse.



Dispatching center makes service faster

Online dispatching of national technical service staff
view the progress of various services in real time
make pre-sales and after-sales service more worry free

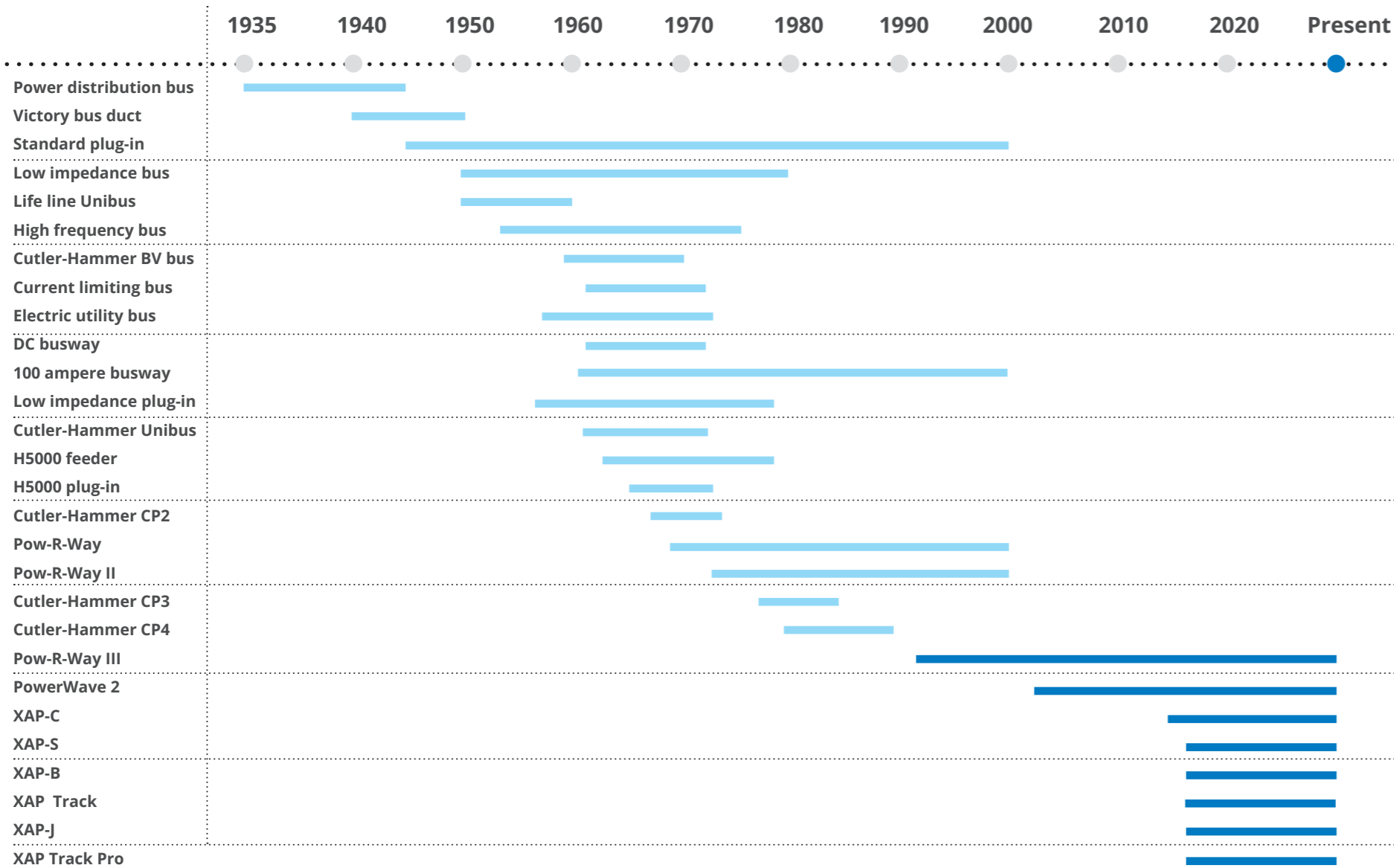


Refinement of production management

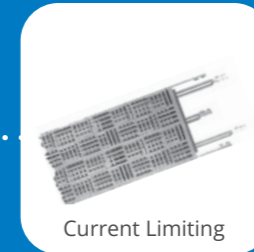
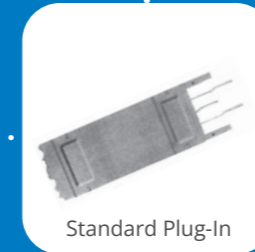
Standardized production management
Plant performs MES system, which can display production, quality, safety and contract execution data on real-time.

KEEP INNOVATION SINCE 1935

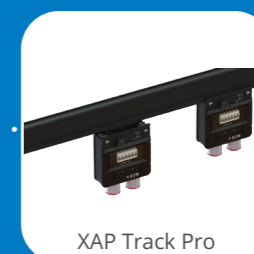
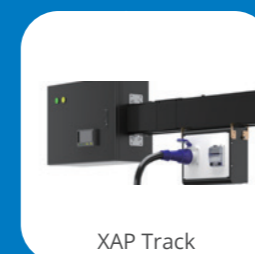
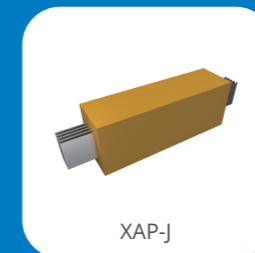
In 1935, comes out first type of busway "power distribution bus".



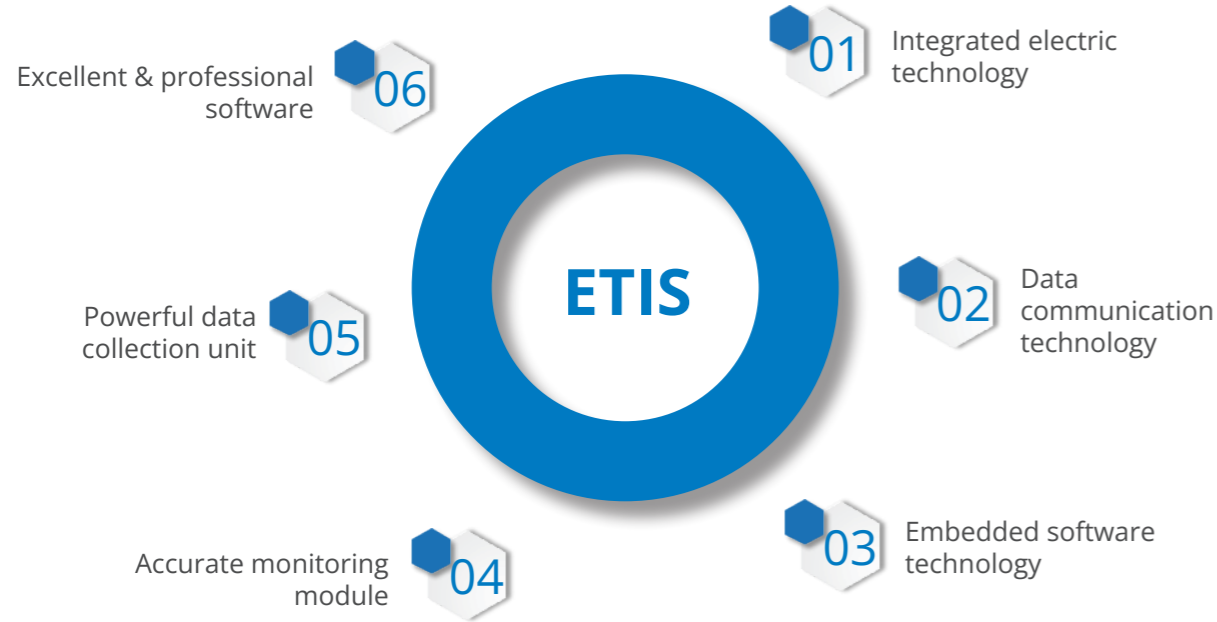
1935



Eaton busway history can be traced back to 1935 last century. 1st busway was called "power distribution bus", which consists of aluminum or copper bars inside a metal housing used for power distribution. it is available from 100-5000A.



XAP Track Pro Buway Eaton Intelligent System(ETIS)



Improve IDC operation and maintenance efficiency. Effectively manager equipment operation status. One stop solution for rack electricity application. Intelligently protect the electricity safety.

Item	1#柜	2#柜	3#柜	4#柜
Ia	1.973A	1.113A	0.898A	0.293A
Ib	4.004A	3.262A	2.976A	4.041A
Ic	4.883A	2.949A	3.398A	2.852A

Tap-off unit intelligent monitor

End feed unit intelligent monitor



Real time

Power data includes Phase Current, Voltage L-L, Frequency, Total Harmonic Distortion, Power kW, Power Factor, Energy Consumption [kWh].

Online monitor

Available for both RS485 and LoRa.

Optimization

Optimize the configuration per customer demand.

Threshold alarms

Set threshold alarms for maximum or minimum values for each feature.

XAP Track Pro Busway

Technique data

Item	Unit	Data				
Rated current	A	250	400	630	800	1000
Product standard		GB/T 7251.6-2015 GB/T 7251.8-2020 IEC 61439.6-2012				
Third party certificate		CQC, KEMA, CE				
Structure		Rail type				
Installation type		Edgewise & flatwise				
Surface anti-corrosion measures		Electrophoresis / Electric static spray				
Application		Indoor				
Rated operational voltage (Ue)	V	690				
Rated insulation voltage (Ui)	V	1000				
Rated frequency (fn)	Hz	50/60				
Rated withstand current (Icw)	kA	10	25	32	40	45
5s power frequency withstand voltage	V	2200				
Lightning impulse voltage (Uimp)	kV	8				
Electric clearance	mm	≥12.5				
Creepage distance	mm	≥16				
Housing max. temperature-rise	K	< 55				
Conductor max. temperature-rise	K	< 70				
Dimension (width*height)	mm	68x133	68x133	68x133	110x147	110x147

XAP Track Pro Busway

Technique data

Tap-off unit technique data

Item	Unit	Data			
Rated current	A	16	32	63	125
Rated operational voltage (Ue)	V	440			
Rated insulation voltage (Ui)	V	690			
Rated frequency (fn)	Hz	50/60			
Rated short-time withstand current (Icw)	kA	10			
5s power frequency withstand voltage	V	2200			
Lightning impulse voltage (Uimp)	kV	8			
Protection degree (IP)		40			
Housing max. temperature-rise	K	< 55			
Conductor max. temperature-rise	K	< 70			

End tap box technique data

Item	Unit	Data				
Rated current	A	250	400	630	800	1000
Rated operational voltage (Ue)	V	690				
Rated insulation voltage (Ui)	V	1000				
Rated frequency (fn)	Hz	50 / 60				
Rated short-time withstand current (Icw)	kA	10	25	32	40	45
5s power frequency withstand voltage	V	2200				
Lightning impulse voltage (Uimp)	kV	8				
Protection degree (IP)		42				
Housing max. temperature-rise	K	< 55				
Conductor max. temperature-rise	K	< 70				

XAP Track Pro Busway

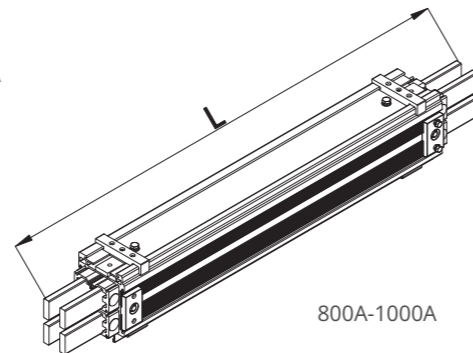
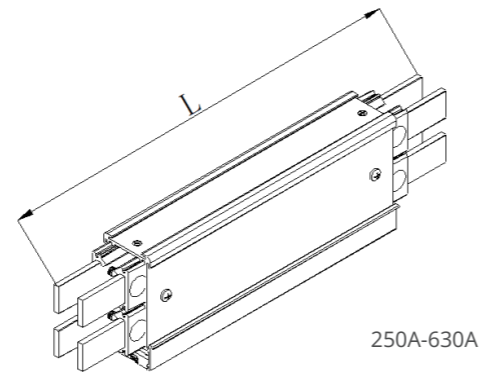
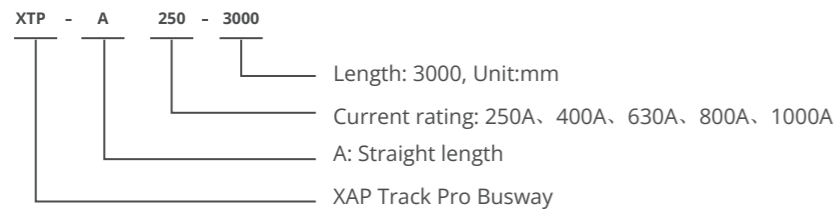
Functional unit

Straight length

Straight length is the main function unit of busway trunking system, which load and transfer busway trunking current.

- Length customization range: 350 ~ 3000mm

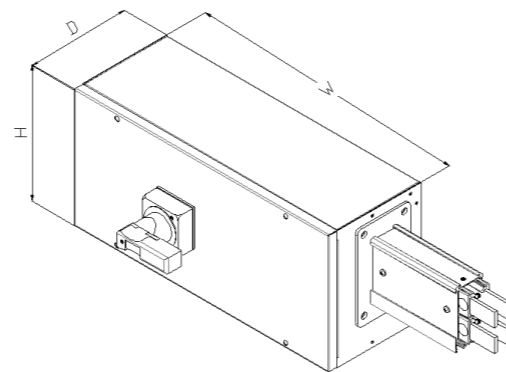
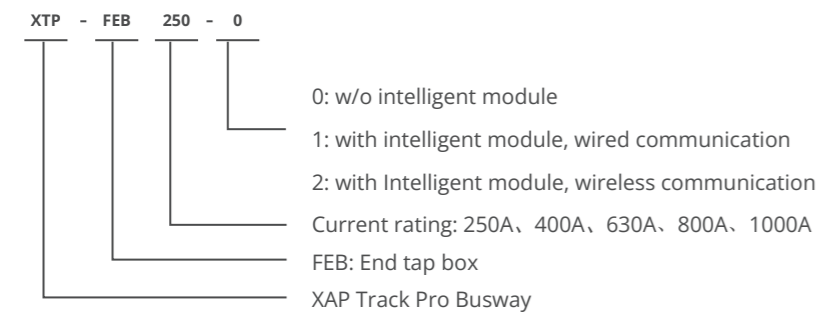
- Model definition:



End tap box

End tap box is the end feeding unit in the busway layout, which is used to manage the power supply. The enclosure is made of high quality steel plate with high strength. The box comes with one section of feeder busway, it can monitor current / voltage / active power / power factor / three phase balance / temperature online.

- Total electric quality measurement, monitor electric energy quality in real time.
- Through the setting of early warning thresholds such as temperature and humidity, fault early warning is carried out in advance.
- Manual or remote ON & OFF for busway trunking.



Serial Number	Rating (A)	W (mm)	H (mm)	D (mm)
1	250	500	350	250
2	400	650	350	300
3	630	800	400	350
4	800	900	450	400
5	1000	1000	500	450

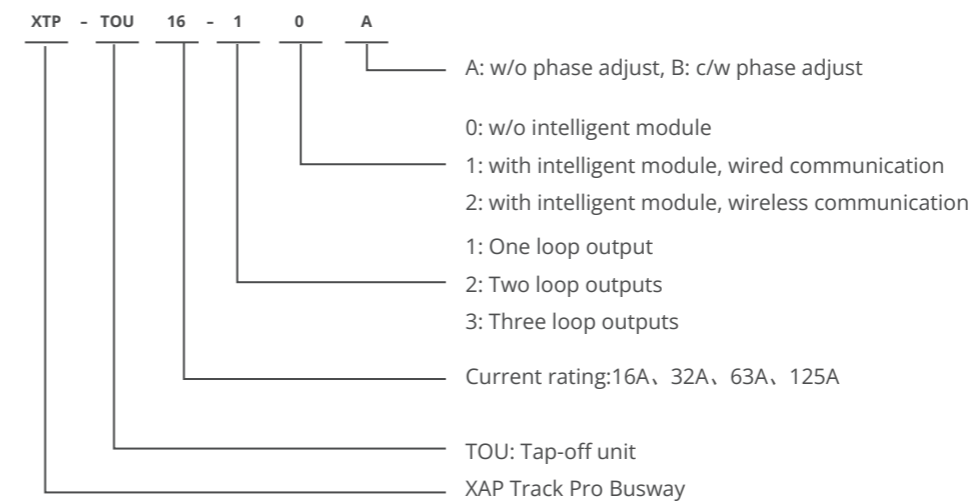
Tap-off unit

Plug in box is the necessary component to send electric energy from the busway to the cabinet.

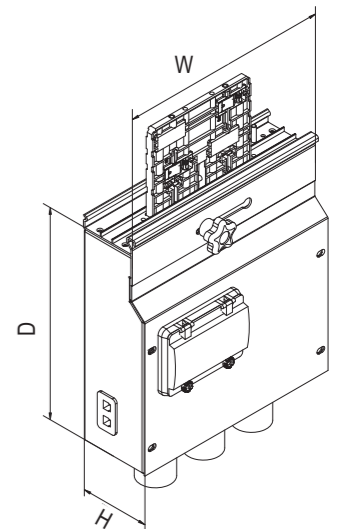
- A variety of connection modes can be selected (Industrial inclined socket and straight socket), various configuration for wide application.

- Support a variety of communication protocols, RS485/modbus, customized protocol on demand, available with wired and wireless Lora.

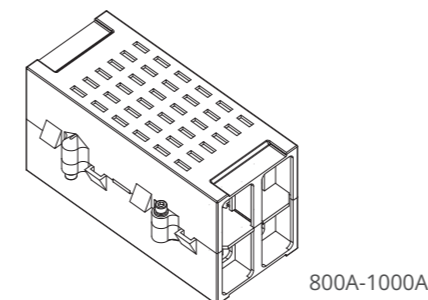
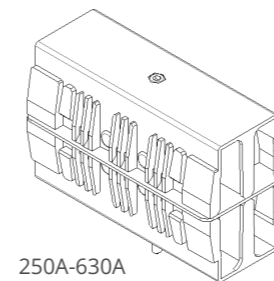
- Model definition:



Serial Number	Rating (A)	W (mm)	H (mm)	D (mm)
1	16	305	100	400
2	32	305	100	400
3	63	450	150	400
4	125	550	150	400

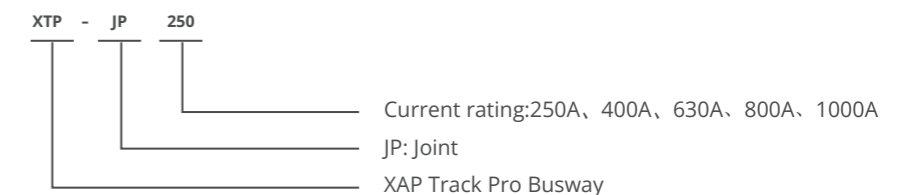


Joint



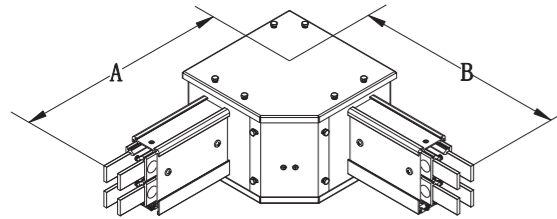
The joint is used to connect two adjacent busway. The busway is pre equipped with joint components, including extending bar, fixed profiles and fixed bolts with durable structure.

- Model definition:



XAP Track Pro Busway Functional unit

horizontal elbow



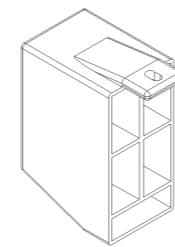
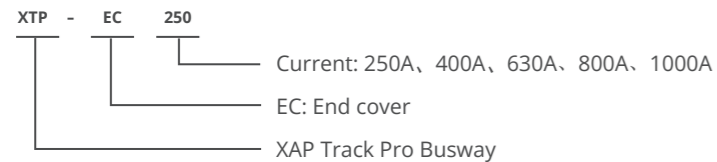
Serial Number	Rating (A)	Value (mm)	
1	250	A=500	B=500
2	400	A=500	B=500
3	630	A=500	B=500
4	800	A=500	B=500
5	1000	A=500	B=500

Horizontal elbow is applied to change the busway layout.

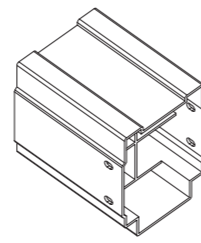
End Cover

End cover is made of PC flame retardant material, which can effectively block busway end for a long time to prevent outside matters from entering. It is easy to install and remove. When the arrangement of busway needs to be increased or adjusted, the end cover can be removed at any time to facilitate the expansion and connection of the busway in the future.

Model definition:



250A-630A

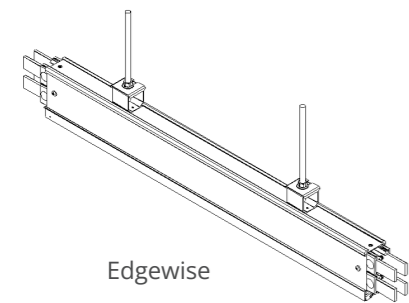
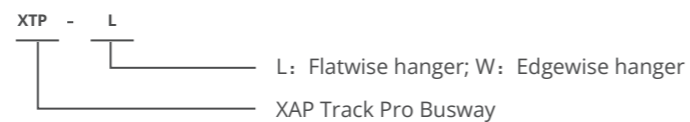


800A-1000A

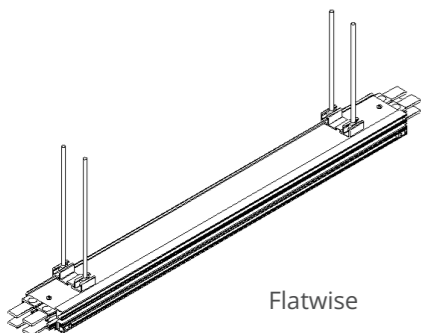
Hanger

We offer specially designed 2 types of hanger for the installation of track busway in the data center to adapt the limitations of data center height space. It can be configured separately or operating at the same time, which guarantee the reliable installation of the busway, end tap box and tap-off unit.

Model definition:



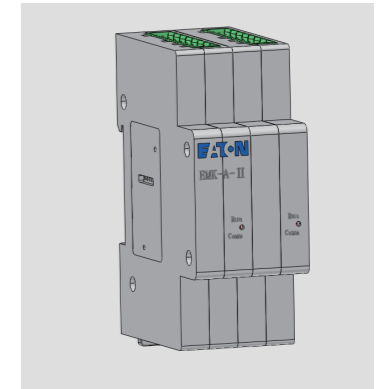
Edgewise



Flatwise

XAP Track Pro Busway ETIS (EATON Intelligent system)

EMK-A-II is a new product developed specially for the Track Pro busway, which is a multi meter that integrated measurement / monitoring and digicom. It has various measurement functions, such as three phase / high accuracy electric energy / harmonics / temperature / Neutral current / Neutral voltage / on-off input and output, also it can realize the alarm functions of volatage / current and power, this is a reliable / multi-function and low-power dissipation monitor meter. This meter is mainly applied to monitor the input / output components of intelligent busway, all the terminals are pluggable, it is equipped with open or closed CT / NTC temperature probe which can rapidly measure the point current and temperature variation of the end tap box and tap-off unit of the busway. All the monitoring data will be uploaded through RS485 communication port to the local HMI, which supports user to manager power distribution data more efficiently.



EMK-A-II multi-functional meter

Real-time Measurement Function	current	
	phase voltage	
	Line voltage	
	active power	
	reactive power	
	apparent power	
	power factor	
	frequency	
	angle	angle between three phase voltage and current / angle of three phase voltage / angle of three phase current
	4 loops temperature	
	three phase voltage harmonic total distortion (2-31 times)	
	three phase current harmonic total distortion (2-31 times)	
Electric Power Metering Function	positive total active power metering, reverse total power metering, combined active total power metering (positive and reverse)	
	split-phase positive active power, reverse active electric power metering, combined active electric power metering (positive and reverse)	
	combined reactive power 1. combined reactive power 2. total electric power metering, split-phase reactive electric power metering	
Real-time Alarm Function	over-voltage alarm	
	under-voltage alarm	
	out-of-phase alarm	
	system frequency exceeds the lower limit alarm	
	system frequency exceeds the upper limit alarm	
	temperature exceeds the upper limit alarm	
	temperature exceeds the lower limit alarm	

XAP Track Pro Busway

ETIS (EATON Intelligent system)

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For more information, pls visit Eaton Company Official website: www.eaton.com.cn

Eaton wechat: Eaton_China

EMK-A-II technique data

Operating environment	
Operating temperature	-10°C ~50°C
Humidity	5% ~ 95%
Altitude	≤2000m
Insulation resistance	100MΩ / 500V
Power-frequency withstand voltage	2kv (r.m.s), 50Hz, 1min (voltage、 current、 power、 DO port)
1kv (r.m.s), 50Hz, 1min (DI input、 RS485 port)	Lighting protection level
Flame retardant rating	UL V-0
EMC	Standard: GB/T 17626; IEC 61000-4
Electrical fast transient pulse group immunity	IV level (Communication port 2kV, other port 4kV)
Electrostatic discharge immunity	III level (contact discharge 6kV, air discharge 8kV)
Surge immunity	IV level (voltage、 current、 power、 DO port 4kV, DI input、 RS485 port 1kV)
RFEMS	III level (10V/m)
Measurement accuracy	
Current	0.5 level; range: 0.05Ib~1.2I _{max}
Phase voltage	0.5 level; range: AC80V~300V
Frequency	±0.02Hz; range: 45Hz~65Hz
Power	active 1 level, reactive 2 level
Power factor	±0.02; 0~±1.0
Harmonic	voltage harmonic B level, current harmonic B level; 2~31 times
Temperature	±1°C; -50~250°C
Electric energy	active 1 level, reactive 2 level
Input / output	
On-off input	2DI (Passive node,built-in power supply)
Relay output	2DO,controllable associated alarm output or remote control output
Communication	
Communication port	Communication baud rate: for option: 1200bps、 2400bps、 4800bps、 9600bps, default data 9600bp (If requires other options, please refer to the actual product)
Parity bit: NONE / ODD / EVEN	Default no test
Communication protocol	Modbus-RTU



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