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LEGRAND DATA CENTER TRACK BUSWAY

POWER FLOWS
DATA THRIVES

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DATA CENTER TRACK BUSWAY

PRODUCT OVERVIEW

With the continuous iteration and upgrade of semi-conductor technology and network communication technologies, as well as the sudden explosive growth of AIGC , Data Center power distribution systems are facing unprecedented challenges. How to improve the efficiency of the power distribution system, reduce transmission losses, and provide flexibility for branch expansion while ensuring uninterrupted and stable power supply is an unavoidable issue for Data Centers. The Legrand Data Center Track Busway is an ideal solution designed to address these issues.

Legrand Track Busway is a brand-new generation of Data Center track style Busway which focuses on solving the issues of security, ease of use, applicability, and high price associated with similar products on the market. Through optimization of each structure and meticulous attention to detail, Legrand enhances the safety level of busway product usage, improves the user experience, bringing the value back to the product itself.

Legrand Data Center Track Busway embodies simplicity, lightweight design, intelligence, efficiency, and flexibility. It strives to become the advocate and leader of a newer generation track busways that are more user-friendly, safer, more reliable, and applicable to a wider range of applications. Empowering green, intelligent, and flexible data centers, making stable rack-row power supply readily available.



All-round safety improvements

- IP40 rating, seamless protection for enhanced safety.
- End feed AC/DC isolation layout design, reducing electrical failure risks.
- Quick copper bar coupling with no drilling nor screwing.
- "Mechanical first, electrical second" TOB installation approach to ensure personal safety.



For better user experience

- Lightweight straight section design, convenient and easier for installation.
- Patented TOB auto-hook enabling tool-free and quick installation.
- Direct upwards TOB insertion, no rotation nor adjusting required.
- Lifting brackets can be placed at any point and are freely adjustable.



Go compact

- Flat shape design in end feed, straights and TOB, saving precious spaces at the top of the cabinet.
- The A/B Busway configuration provides a horizontal clearance of 600mm and a vertical clearance of 700mm, freeing up more space for other systems.



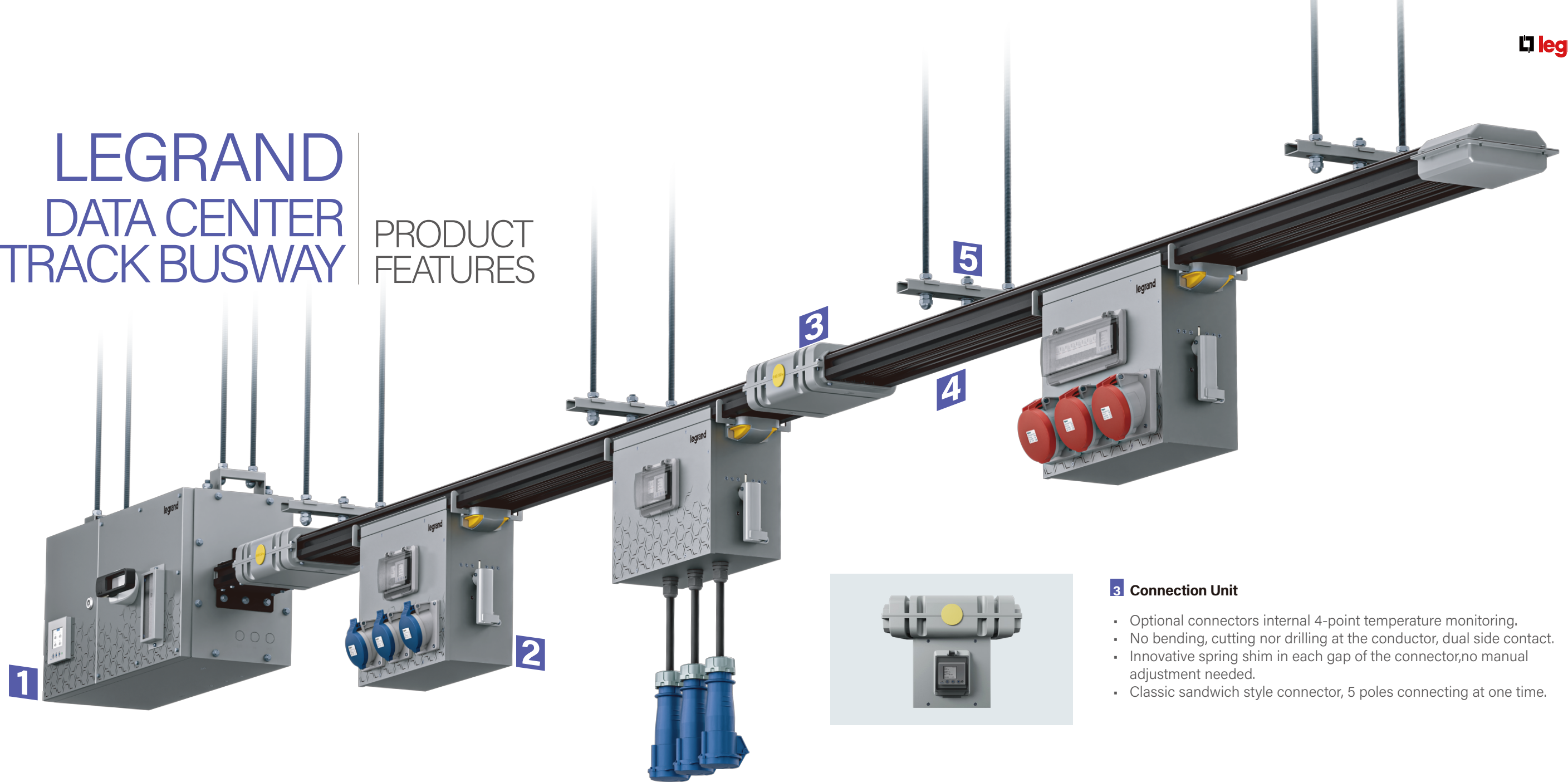
Cutting-edge technologies inside

- Hot-swap power meters ensure extended availability.
- Built-in 4 points temperature monitoring at end feed, connection and TOB.
- End feed – TOB automatic communication address distribution.



LEGRAND DATA CENTER TRACK BUSWAY

PRODUCT FEATURES



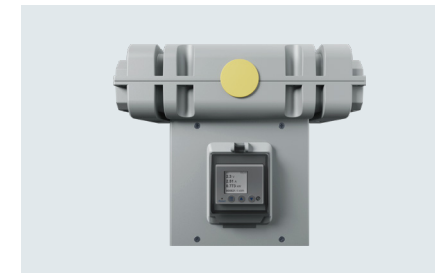
1 End Feed

- Single foldable door offers easy field maintenance
- Support infrared scanning on connection joint
- MCCB handle ensures safer and easier operation
- Built-in 4 points (L1/L2/L3/N) joint temperature monitoring



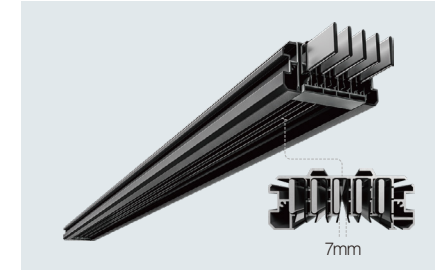
2 Tap-Off Box(TOB)

- "Mechanical first, electrical second" 2-step TOB installation.
- Ground pin "first in, last out" design for better safety.
- Direct insertion, TOB installed in the blink of an eye.
- Built-in 4 points temperature monitoring at the critical contact area.



3 Connection Unit

- Optional connectors internal 4-point temperature monitoring.
- No bending, cutting nor drilling at the conductor, dual side contact.
- Innovative spring shim in each gap of the connector, no manual adjustment needed.
- Classic sandwich style connector, 5 poles connecting at one time.



4 Straight Section

- Flat form factor, minimize vertical space occupation
- "Finger safe" compliant, conductor gap down to 7mm
- Lightweight design, friendly for lifting
- 30% recycled copper and 30% recycled aluminum contained
- Fool-proof TOB installation ensures correct polarity



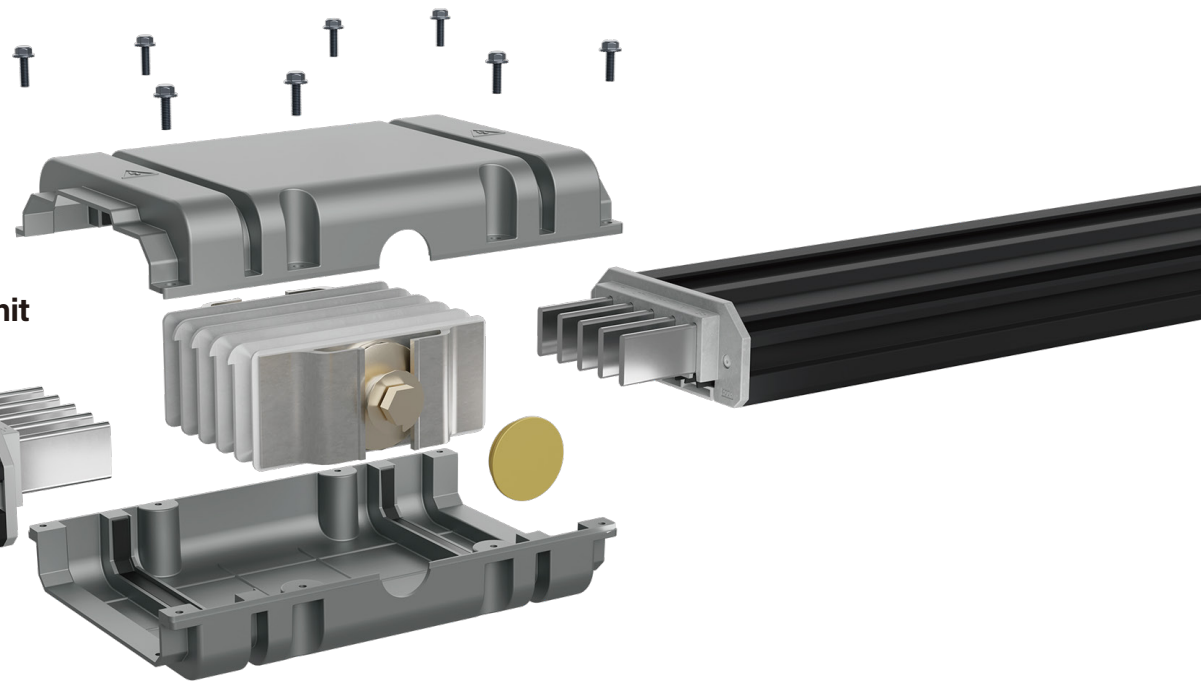
5 Installation Kit

- Unitized threaded rod hanging kit, stable in every direction
- Hanging and supporting kit available as options

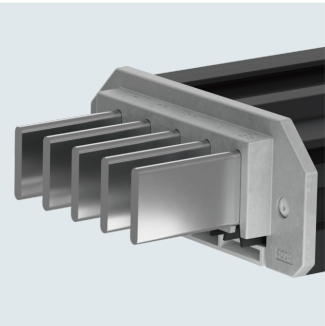
LEGRAND DATA CENTER TRACK BUSWAY

DESIGN HIGHLIGHTS

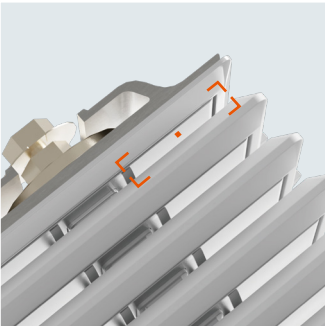
Connection Unit



Bolt torque inspection window for convenient regular maintenanc.



100% N and PE conductor higher fault withstand capability

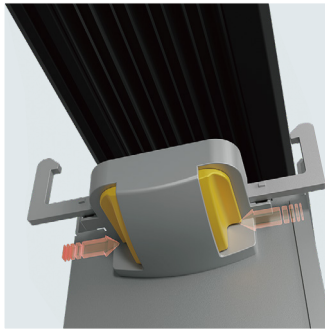


Spring shim in each gap, no adjustment needed when copper bar inserted.

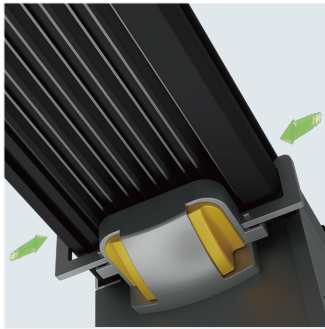


Fool-proof design to avoid polarity error.

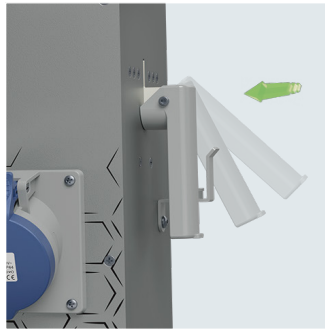
One-motion Power-on



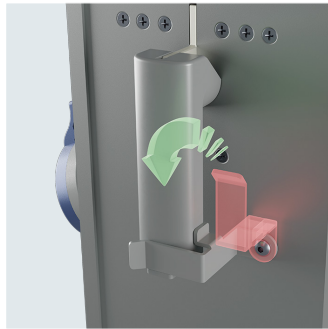
STEP 1
Press the auto-hook button, hook spreads to the open position.



STEP 2
Lift the TOB and insert into the bottom of straight sections, hook shrinks to the closed position.



STEP 3
Swing the TOB handle to upright position to make the electrical contact.

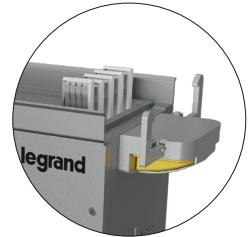


STEP 4
Put the safety latch on to finish the TOB installation.

MECHANICAL FIRST ELECTRICAL SECOND



Tap-off box



LEGRAND DATA CENTER TRACK BUSWAY

MONITORING

Comprehensive power monitoring, providing real-time and detailed understanding of IT power consumption.

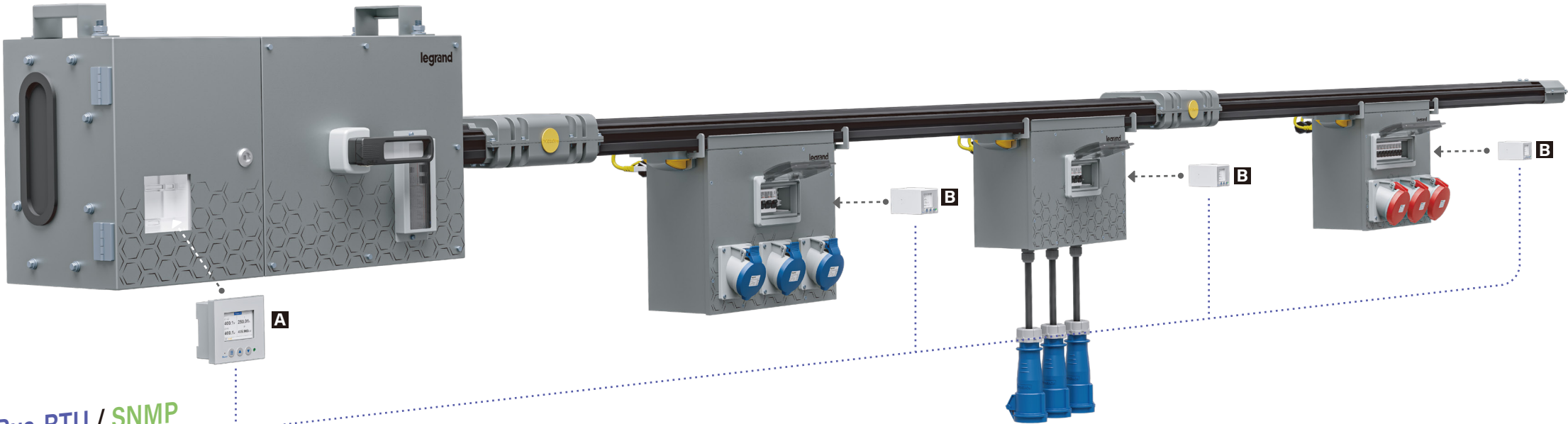
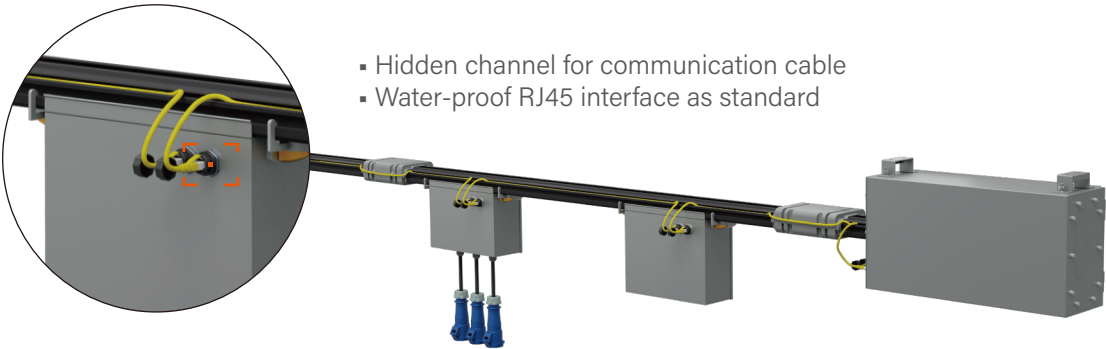
Centralized
monitoring



network
switch



ModBus-RTU / **SNMP**



MONITORING

Legrand Data Center Track Busway provides precise and intelligent monitoring of rack row power distribution circuits. It can be easily integrated into various management platforms through multiple standard communication protocols.

The hot-swappable meter technology enables the busway monitoring system to have better repairabilities and higher availability. The dedicated communication cable hidden channel also ensures that the busway maintains a clean and tidy appearance.

End Feed Hot-swap Power Meter

A



Display	2.0"color LCD
Resolution	320 x 240
Content	Phase voltage, line voltage, phase current, active power, apparent power, power factor, frequency, neutral current, active energy, conductor joint temperature
Setting	Daisy-chain address, IP mode, buzzer mute
Alarm	Buzzer beeping, display content in red and flashing
Accuracy	Voltage/current @ ± 0.5%; power/energy @ ± 1%
Interface	10/100Mbps * 1, RS485 * 2
Protocol	SNMP V1/V2c/V3, Modbus-RTU

TOB Hot-swap Power Meter

B



Display	1.44"color LCD
Resolution	128 x 128
Content	Phase voltage, phase current, active power, active energy, conductor joint temperature
Setting	Daisy-chain address, buzzer mute
Alarm	Buzzer beeping, display content in red and flashing
Accuracy	Voltage/current @ ± 0.5%; power/energy @ ± 1%
Interface	RS485 * 2
Protocol	Modbus-RTU

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DATA CENTER TRACK BUSWAY

PRODUCT PARAMETER

PRODUCT PARAMETER

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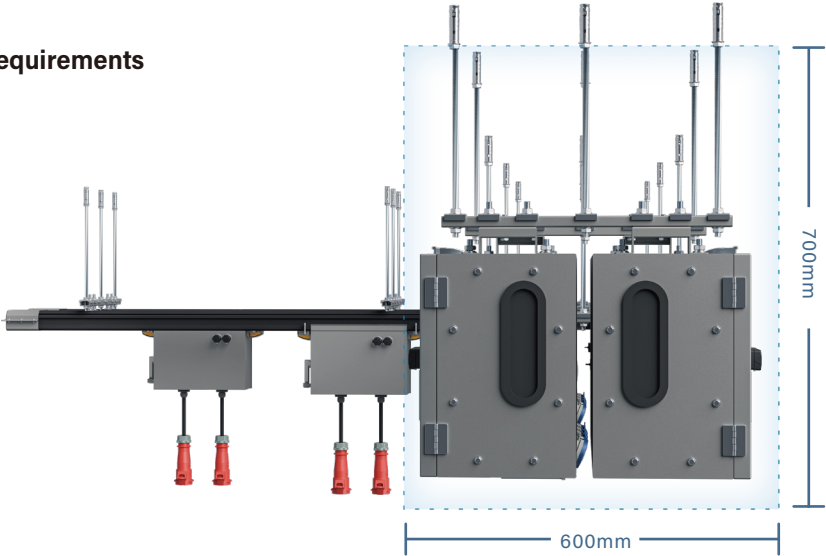


Busway Technical Specification

Function	Basic		Monitored		Monitored with SPD	
Current rating	160A/250A/400A/630A/800A					
Working voltage	400VAC					
Rated insulation voltage	800VAC					
Rated impulse withstand voltage	8000V					
Frequency	50/60Hz					
Rated short-time withstand current	Max. 30kA (630A)					
Rated peak withstand current	Max. 60kA (630A)					
Conductor copper ratio	≥99.95%					
Conductor conductivity	≥97.6% IACS					
Phase-phase insulation resistance	≥500MΩ					
Phase-PE insulation resistance	≥500MΩ					
Material insulation grade	Class B (130℃)					
Conductor clearance parameter	Min. creepage distance (mm)			Min. electrical clearance (mm)		
Phase-phase	30.6 (≥10)			30.4 (≥12.5)		
Phase-enclosure	15.4 (≥10)			15.2 (≥12.5)		
IP Grade	IP40					
Mechanical impacts	IK10					
Working relative humidity	Monthly max. average ≤90%, daily max.average ≤95%					
Working altitude	≤2000 meters					
Working temperature	< 40℃	45℃	50℃	55℃	60℃	
Derated coefficient	1	0.95	0.92	0.89	0.85	

Busway Minimum Installation Space Requirements

Compact installation space	
Horizontal	600mm
Vertical	700mm



PRODUCT SELECTION CHARTS

LEGRAND DATA CENTER TRACK BUSWAY

End Feed

Current rating	MCCB	Monitored	SPD	Part No.
160A	-	-	-	LPFS-BA160WWW-xx
	-	✓	-	LPFS-MA160WWW-xx
	✓	-	-	LPFS-BA160LWW-xx
	✓	✓	-	LPFS-MA160LWW-xx
	✓	✓	✓	LPFS-SA160LLW-xx
250A	-	-	-	LPFS-BA250WWW-xx
	-	✓	-	LPFS-MA250WWW-xx
	✓	-	-	LPFS-BA250LWW-xx
	✓	✓	-	LPFS-MA250LWW-xx
	✓	✓	✓	LPFS-SA250LLW-xx
400A	-	-	-	LPFS-BA400WWW-xx
	-	✓	-	LPFS-MA400WWW-xx
	✓	-	-	LPFS-BA400LWW-xx
	✓	✓	-	LPFS-MA400LWW-xx
	✓	✓	✓	LPFS-SA400LLW-xx
630A	-	-	-	LPFS-BA630WWW-xx
	-	✓	-	LPFS-MA630WWW-xx
	✓	-	-	LPFS-BA630LWW-xx
	✓	✓	-	LPFS-MA630LWW-xx
	✓	✓	✓	LPFS-SA630LLW-xx
800A	-	-	-	LPFS-BA800WWW-xx
	-	✓	-	LPFS-MA800WWW-xx
	✓	-	-	LPFS-BA800LWW-xx
	✓	✓	-	LPFS-MA800LWW-xx
	✓	✓	✓	LPFS-SA800LLW-xx

*Last 2 digits "xx" define the end feed position , 4 positions are possible : LA/RA/LB/RB.
Please refer to end feed datasheet for detailed explanation.

Installation Kit

Current rating	Product	Type	Part No.
160~400A	For Straight Unit	Hanging kit	LPFP-GENHKSTD
		Supporting kit	LPFP-GENSKSTD
	For End Feed	Hanging kit	LPFP-GENFHSTD
		Supporting kit	LPFP-GENFSSTD
630~800A	For Straight Unit	Hanging kit	LPFP-630HKSTD
	For End Feed		LPFP-630FHSTD

PRODUCT SELECTION CHARTS

LEGRAND DATA CENTER TRACK BUSWAY

Straight Unit

Current rating	Length*	Conductor	Part No.
160A	1m	3P+N+E / Copper	LPFZ-A160SS100
	2m	3P+N+E / Copper	LPFZ-A160SS200
	3m	3P+N+E / Copper	LPFZ-A160SS300
250A	1m	3P+N+E / Copper	LPFZ-A250SS100
	2m	3P+N+E / Copper	LPFZ-A250SS200
	3m	3P+N+E / Copper	LPFZ-A250SS300
400A	1m	3P+N+E / Copper	LPFZ-A400SS100
	2m	3P+N+E / Copper	LPFZ-A400SS200
	3m	3P+N+E / Copper	LPFZ-A400SS300
630A	1m	3P+N+E / Copper	LPFZ-A630SS100
	2m	3P+N+E / Copper	LPFZ-A630SS200
	3m	3P+N+E / Copper	LPFZ-A630SS300
800A	1m	3P+N+E / Copper	LPFZ-A800SS100
	2m	3P+N+E / Copper	LPFZ-A800SS200

*Other lengths can be customized. Max. length for 800A straight unit is 2,4m.

Connection Unit

Type	Position	Current rating	Part No.
Straight	Na	160A	LPFP-160SCSTD
	Na	250A	LPFP-250SCSTD
	Na	400A	LPFP-400SCSTD
	Na	630A	LPFP-630SCSTD
	Na	800A	LPFP-800SCSTD
L shape	A position	160A	LPFP-160LASTD
		250A	LPFP-250LASTD
		400A	LPFP-400LASTD
		630A	LPFP-630LASTD
		800A	LPFP-800LASTD
	B position	160A	LPFP-160LBSTD
		250A	LPFP-250LBSTD
		400A	LPFP-400LBSTD
		630A	LPFP-630LBSTD
		800A	LPFP-800LBSTD

PRODUCT SELECTION CHARTS

LEGRAND DATA CENTER TRACK BUSWAY

Tap-Off Box for 160~630A

Functional type	Outputs				Part No.
	Phase	Current rating	Output quantity	Position and type	
Basic	1Ph	16A	3	Front, angled connector	LPFC-BA-1P316XL
				Bottom, drop cord connector	LPFC-BA-1P316GL
		32A		Front, angled connector	LPFC-BA-1P332XL
				Bottom, drop cord connector	LPFC-BA-1P332GL
		63A		Front, angled connector	LPFC-BA-1P363XL
				Bottom, drop cord connector	LPFC-BA-1P363GL
	3Ph	32A	1	Front, angled connector	LPFC-BA-3P132XL
				Bottom, drop cord connector	LPFC-BA-3P132GL
			2	Front, angled connector	LPFC-BA-3P232XL
				Bottom, drop cord connector	LPFC-BA-3P232GL
			3	Front, angled connector	LPFC-BA-3P332XL
				Bottom, drop cord connector	LPFC-BA-3P332GL
		63A	1	Front, angled connector	LPFC-BA-3P163XL
				Bottom, drop cord connector	LPFC-BA-3P163GL
			2	Front, angled connector	LPFC-BA-3P263XL
				Bottom, drop cord connector	LPFC-BA-3P263GL
Monitored	1Ph	16A	3	Front, angled connector	LPFC-MA-1P316XL
				Bottom, drop cord connector	LPFC-MA-1P316GL
		32A		Front, angled connector	LPFC-MA-1P332XL
				Bottom, drop cord connector	LPFC-MA-1P332GL
		63A		Front, angled connector	LPFC-MA-1P363XL
				Bottom, drop cord connector	LPFC-MA-1P363GL
	3Ph	32A	1	Front, angled connector	LPFC-MA-3P132XL
				Bottom, drop cord connector	LPFC-MA-3P132GL
			2	Front, angled connector	LPFC-MA-3P232XL
				Bottom, drop cord connector	LPFC-MA-3P232GL
			3	Front, angled connector	LPFC-MA-3P332XL
				Bottom, drop cord connector	LPFC-MA-3P332GL
		63A	1	Front, angled connector	LPFC-MA-3P163XL
				Bottom, drop cord connector	LPFC-MA-3P163GL
			2	Front, angled connector	LPFC-MA-3P263XL
				Bottom, drop cord connector	LPFC-MA-3P263GL

*Circuit protection : DX³ MCB Icu=10KA

End Cap

Straight unit current rating	Part No.	Notes
160~400A	LPFP-GENECSTD	End cap for 160-400A straight unit
630A	LPFP-630ECSTD	End cap for 630A straight unit
800A	LPFP-800ECSTD	End cap for 800A straight unit

PRODUCT SELECTION CHARTS

LEGRAND DATA CENTER TRACK BUSWAY

Tap-Off Box for 800A

Functional type	Outputs				Part No.
	Phase	Current rating	Output quantity	Position and type	
Basic	1Ph	32A	3	Front, angled connector	LPFT-BA-1P332XL
				Bottom, drop cord connector	LPFT-BA-1P332GL
		63A		Front, angled connector	LPFT-BA-1P363XL
				Bottom, drop cord connector	LPFT-BA-1P363GL
	3Ph	32A	1	Front, angled connector	LPFT-BA-3P132XL
				Bottom, drop cord connector	LPFT-BA-3P132GL
			2	Front, angled connector	LPFT-BA-3P232XL
				Bottom, drop cord connector	LPFT-BA-3P232GL
			3	Front, angled connector	LPFT-BA-3P332XL
				Bottom, drop cord connector	LPFT-BA-3P332GL
		63A	1	Front, angled connector	LPFT-BA-3P163XL
				Bottom, drop cord connector	LPFT-BA-3P163GL
			2	Front, angled connector	LPFT-BA-3P263XL
				Bottom, drop cord connector	LPFT-BA-3P263GL
Monitored	1Ph	32A	3	Front, angled connector	LPFT-MA-1P332XL
				Bottom, drop cord connector	LPFT-MA-1P332GL
		63A		Front, angled connector	LPFT-MA-1P363XL
				Bottom, drop cord connector	LPFT-MA-1P363GL
	3Ph	32A	1	Front, angled connector	LPFT-MA-3P132XL
				Bottom, drop cord connector	LPFT-MA-3P132GL
			2	Front, angled connector	LPFT-MA-3P232XL
				Bottom, drop cord connector	LPFT-MA-3P232GL
			3	Front, angled connector	LPFT-MA-3P332XL
				Bottom, drop cord connector	LPFT-MA-3P332GL
		63A	1	Front, angled connector	LPFT-MA-3P163XL
				Bottom, drop cord connector	LPFT-MA-3P163GL
			2	Front, angled connector	LPFT-MA-3P263XL
				Bottom, drop cord connector	LPFT-MA-3P263GL

*Circuit protection : DX³ MCB Icu=10KA

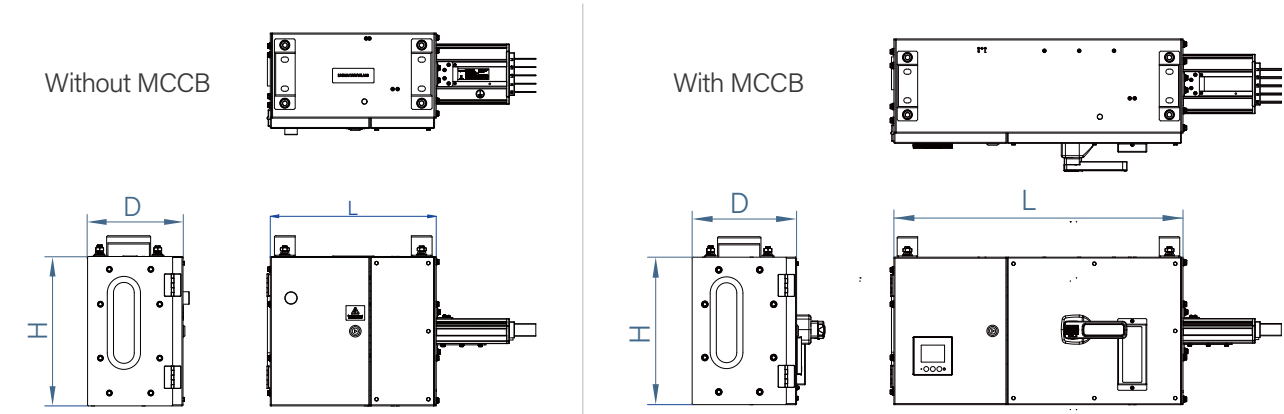


PRODUCT DIMENSIONS

LEGRAND DATA CENTER TRACK BUSWAY

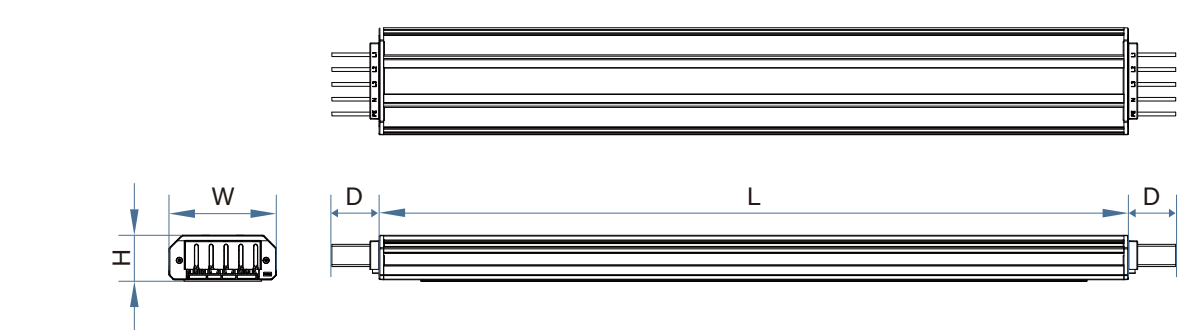
End Feed

Type	Current rating	L(mm)	H(mm)	D(mm)
Without MCCB	160 A / 250 A / 400 A	400	360	230
	630 A	550	400	285
	800 A	550	400	285
With MCCB	160 A / 250 A	600	360	225
	400 A	700	360	255
	630 A	800	400	255
	800 A	900	400	285



Straight Unit

Current rating	L(mm)	W(mm)	H(mm)	D(mm)
160 A / 250 A / 400 A	L	145	62	70
630 A	L	145	76.5	70
800 A	L	158	76.5	70

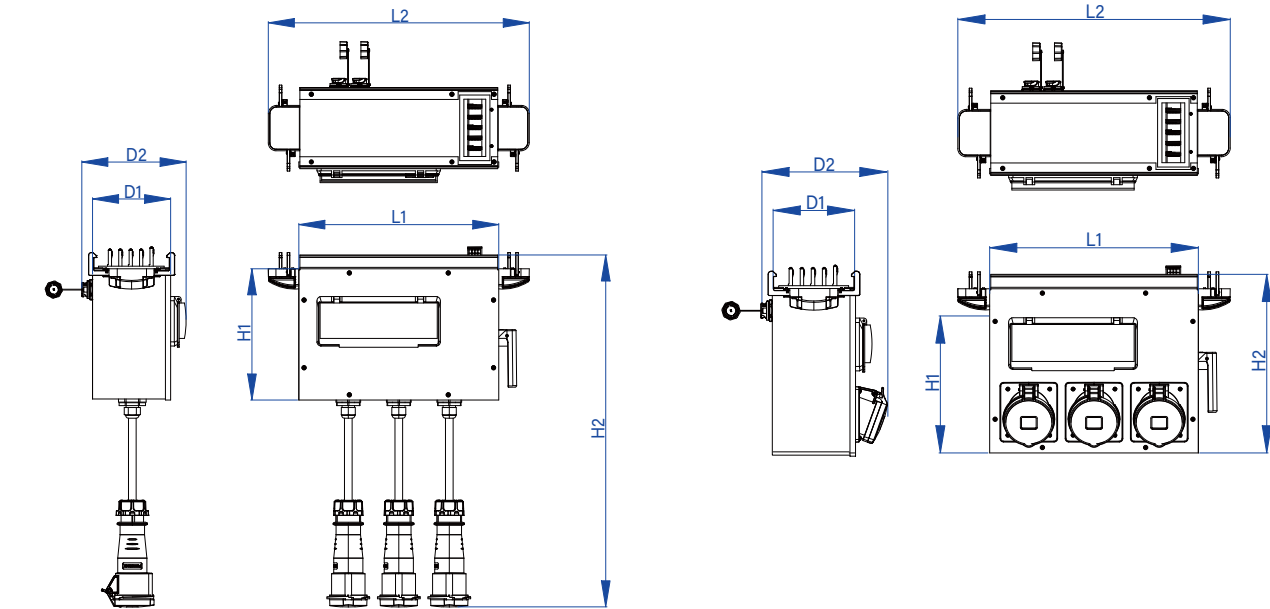


PRODUCT DIMENSIONS

LEGRAND DATA CENTER TRACK BUSWAY

Tap-Off Box

Busway current rating	Output type	Dimensions in mm					
		Box Length (L1)	Overall Length (L2)	Box Height (H1)	Overall Height (H2)	Box Depth (D1)	Overall Depth (D2)
160A / 250A / 400A / 630A	Up to 3 frontal angled	384	501	302	329	150	228
	Up to 3 bottom drop cord connectors	384	501	252	1120	150	200
800A	Frontal angled	384	501	302	329	163	241
	Drop cord connectors	384	501	252	1120	163	213



Connection Unit

Current rating	L(mm)	W(mm)	H(mm)
160 A / 250 A / 400 A	280	145	86
630 A	248	202	101.5
800 A	248	216	101.5

