Rx

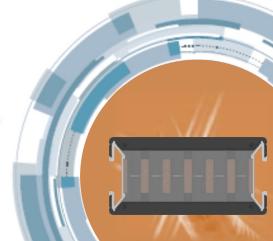
Continuous Plug-In Busway System for Data Centers











About us



Taiwan Busway Company, Ltd. (TBC)

TBC take pride in understanding our customers' and the markets' wants and needs. We listen to the challenges faced by our customers and then develop innovative, practical solutions to remedy their tough situation. We consider ourselves as our customers' business partner and we strive to support our customers' business objectives & profitability. TBC's superior products and solutions are cost competitive and offer the best value throughout the product life-cycle (from installation to operational costs). We are confident that our customers will recognize the benefits and advantages offered by TBC after our products are installed and operational.



Brand & Product

TBC was established in 2002 with the promised commitment to deliver premium quality busway systems and services to our customers. It is with this promise that **TBC** are able to quickly distinguish ourselves as a preferred busway supplier with a good reputation for manufacturing quality, timely delivery, competitive prices and responsive service. In 2004, TBC developed **hot swappable plug-in panel**, an advanced power distribution board that provides easy feeder additions/modifications. These these two brands provide you with a large number of power distribution system possibilities, based on your application requirements.



Tradition & Innovation

TBC: Our Past, Present & Future

- Adhere to the traditional, proven methodologies with the emphasis for product quality every step of the way;
- Keep innovating and continuous improvements based on evolving market needs:
- Strive to do more and exceed our customer expectations.



Consistent High Quality

Quality and reliability are embedded in TBC's product design. This is why the high-grade materials and state-of-the-art production & testing equipment are used in the manufacture of TBC products. Additionally, we:

- Strictly abide to the product design standards;
- Great attention to detail and ensure good workmanship in manufacturing;
- Provide responsive service support to address customer concerns.

TBC symbolizes product, brand & quality



Environmental Protection & Sustainable Development

TBC is driven by resource-saving products and technology development, and is committed to the environment, society and employees.

- Design and manufacture of TBC products must adhere to good environmental and social principles.
- Continuous R&D of more environmentally-friendly products.
- The basic principles of fairness and respect towards our employees and business partners.

Reliable Performance: Our Commitment to Customer Confidence

TBC understands the importance and significance of reliable, high up-time power to our customers' continuous manufacturing processes and business requirements. The cornerstone of TBC's product designs and solutions are focused on long-lasting product performance and reliable power system operations to ensure our customers are ahead of their competitors. Based on this premise, our existing customers prefer TBC products and we look forward to serving new customers.



Hospital & Biotechnolog

2003	AUO M10 LCM [TFT LCD]
	Inotera Memories [DRAM Memories]
2005	AUO Fab L5C [TFT LCD]
	PTI 3A [Probing service & assembly & final test]
2006	TSMC [Semiconductor manufacturing]
	PTI 2A [Probing service & assembly & final test]
2007	UMC [Semiconductor manufacturing]
	AUO Fab L7A [TFT LCD]
	PTI 2B [Probing service & assembly & final test]
2008	NEXPOWER corporation [SOLAR power]
	AUO Fab L7B, L8A, F12, M12 [TFT LCD]
2009	Malaysia - Petronas [Oil Drilling platform]
2010	UMC 12AP3, 12AP4 [Semiconductor manufacturing]
	PTI /PMT/F3 [Probing service & assembly & final test]
	TSMC LED Fab
2011	Switzerland - Yahoo Datacenter
	USA - Facebook Datacenter
2012	Singapore - Singtel Datacenter
	Google Datacenter
	Shanghai SRC Bank Datacenter
	Far Eastern Telecommunication Datacenter
	ASE Group [Probing service & assembly & final test]
	Koo Foundation Sun Yat-Sen Cancer Center [Hospital]
2013	AUO L4B [TFT LCD]
	Germany - BMW Charging Station
2014	TSMC 14P7, TSMC 12P7 [Semiconductor manufacturing]
	UMC Fab 12AP5P6 [Semiconductor manufacturing]
	INNOLUX [TFT LCD]
	Malaysia - DIGI Telecommunications Datacenter
	Singapore - Singtel KCDC Datacenter
	Taishin Bank Datacenter
2015	AUO Fab L8B GED [TFT LCD]
	Google CHG3 P1 Datacenter
2016	Nanya Technology 3A-N [DRAM Memories]
	Google CHG3 P2 Datacenter
	Jing Peng T5 plant [PCB manufacturing]
	IDC Chunghwa Telecom Datacenter
2047	Malaysia - Petronas SK316 offshore platform
2017	ST Hubert project
	Singapore - Singtel KCDC replacement
2010	Chunghwa Telecom Datacenter
2018	Bangladesh - Dhaka Colo
	NCHC Data Center sites – Hsinchu & Taichung
	NRB Global Bank Datacenter, Bangladesh
	Taiwan High Speed Net Center
Foi	r more info, please visit: www.TBCbusway.com

TBC Busway's Significant Milestones & Achievements:

Rx-series Busway for Server Room Overhead Power Distribution

With over a decade's experience in design and manufacturing cutting-edge power distribution systems, TBC has continued to develop innovative solutions to serve the unique requirements of our IT/mission critical customers. TBC's compact product footprint, and its low EMC, overcomes space constraints in server rooms and allows designers to run power distribution in closer proximity to the data cables. Additionally, the customizable plug-in units provides flexibility in power delivery to each server rack.



Busway:

- fully insulated busbars enclosed in Aluminum housing
- continuous plug-in openings
- standard lengths available: 1M, 2M, 3M, 4M
- customizable lengths available on request
- Finger-safe IP20 rating



Plug-in unit:

- · hot pluggable
- does not require special tools to install
- flexible and customizable to include meter, phase selector switch, etc.
- · single or multiple out-going circuits
- available branch circuit monitoring (BCMS) or DCIM integration



Product Features:

- 100 1600A
- Up to 200% Neutral
- Class-F (155°C) insulation material
- Fully insulated busbars
- · Optional over-temperature detection system (OTDS)



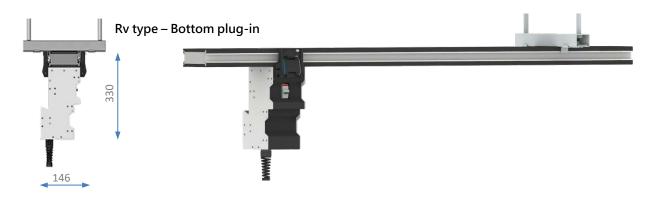
Benefits:

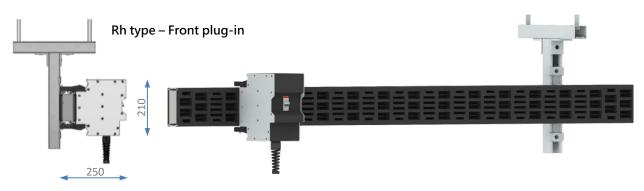
- Compact product footprint/size
- Low EMC/EMF
- 200% Neutral
- Safe, flexible & customizable busway and plug-in units

Rx-series Continuous Plug-In Busway – Technical Data

General Data (Copper)										
		IEC	60439-2, IEC61	1439, IEC60529), IEC60331, IE	C60332				
Chardanda	IEC60439-2, IEC61439, IEC60529, IEC60331, IEC60332 CNS14286, CNS12514, CNS14165, CNS11073									
Standards		JIS	C8364, JIS A13	04, JIS H3140,	GB7251.1, GB7	7251.2				
			ANSI	/UL857, NEMA	A BU-1					
Ambient temperature			-20°	C/+50°C avg	. 35°C					
Altitude	below 2,000m from sea level									
Busway Rating 250A 400A 600A 800A 1000A 1250A								1600A		
Catalogue number		RxC02	RxC04	RxC06	RxC08	RxC10	RxC12	RxC16		
[Copper]		KXCUZ	KXCU4		KXCU8	KXCIU	KXC12	KXCIO		
Rated voltage	V			1000V						
Rated current	Α	250	400	600	800	1000	1250	1600		
Frequency	Hz 60/50									
Conductor	Conductor Copper purity: 99.9% Conductivity: 99.9% IACS									
Conductor plating Tin plating (Std.)										
Insulation material				Epoxy cast re	esin					
Insulation class	Class F (155°C)									
Enclosure/ housing				Epoxy/Alumir	num					
Fire protection UL94 V0										
Ingress Protection rating		IP20								
Mechanical Impact			IK10							
EMC Shielding Degree		Ea,Eb, Ec	Ea,Eb, Ec	Ea,Eb, Ec	Ea,Eb, Ec	Ea,Eb, Ec	Ea,Eb, Ec	Ea,Eb, Ec		
Dimensions – wxh	mm	117x58	117x58	117x58	117x73	117x86	117x113	117x153		
Weight	kg/m	12	15	15	23	32	46	59		
Color				RAL 9010/RA	L 9003					
Plug-in Unit										
Contact design		lug-in type								
Plug-in w/ MCB/RCCB/RCBO DB design Plug-in w/ MCB/RCCB + Socket-outlet Plug-in w/ MCB/RCCB + Power Meter										
Max. Pole				1P-30P						
Max. Rating										
MCB brands		Mitsul	oishi, Terasaki,	Fuji, GE, Schne	eider (MG), or	Customer spe	cified			
MCB brands Mitsubishi, Terasaki, Fuji, GE, Schneider (MG), or Customer specified Protection rating IP20/IP54 (Option)										
Panel coating Powder coated paint										
Color RAL 7043										

Rx-series Busway – Physical & Technical Data (Copper)

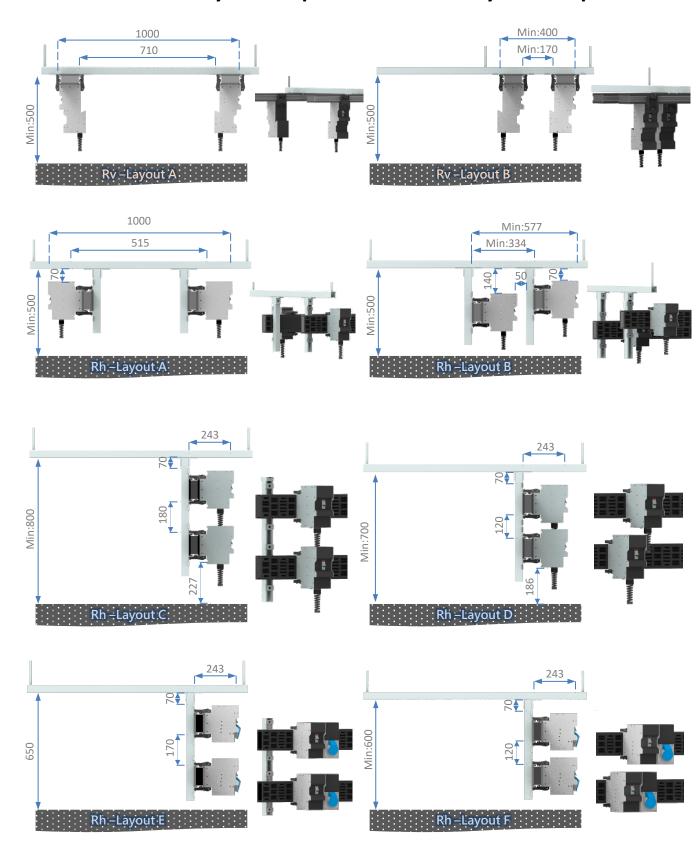




Technical Data (Copper)

Busway Ratings		250A	400A	600A	800A	1000A	1250A	1600A	2000A
Catalog number		RxC02	RxC04	RxC06	RxC08	RxC10	RxC12	RxC16	RxC20
Rated voltage (AC/DC)	V	1000	1000	1000	1000	1000	1000	1000	1000
Rated current	Α	250	400	600	800	1000	1250	1600	2000
Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Impedance values are for									
busway operating at									
20/85°C temperature									
Resistance R ₂₀	μΩ/m	213.0	178.0	106.3	68.7	50.2	34.7	23.0	17.9
Resistance R ₈₅	μΩ/m	267.4	223.5	133.5	86.2	63.0	43.5	28.9	22.5
Reactance X50	μΩ/m	138.1	129.5	112.3	79.9	57.3	42.3	28.0	22.1
Impedance Z ₅₀	μΩ/m	301.0	258.3	174.5	117.5	85.2	60.7	40.2	31.5
Reactance X ₆₀	μΩ/m	165.7	155.4	134.8	95.9	68.8	50.8	33.6	26.5
Impedance Z ₆₀	μΩ/m	314.6	272.2	189.7	128.9	93.3	66.9	44.3	34.8
Conductor cross-section area									
L1,L2,L3	mm²	72.5	100	145	232	307.4	464	696	928
N (100%)	mm²	72.5	100	145	232	307.4	464	696	928
G (50% Internal)	mm²	72.5	50	72.5	116	153.7	232	348	464
Busway Dimensions									
Feeder hxw	mm	117x58	117x58	117x58	117x73	117x86	117x113	117x153	117x193

Rx-series Busway – Examples of Installed Layout Footprint



Full Range of Accessories & Fittings







Feeder section



Flatwise elbow



Flatwise offset



Flatwise Tee



Flat to edge elbow



Plug-in section



Edgewise elbow



Edgewise offset



Edgewise Tee



Edge to Flat elbow



Slot Cover



Flange end



Flange end/Edgewise elbow



Flange end/Flatwise elbow



Unfused reducer



End cable box



Center cable box



Plug-in unit



Plug-in unit w/PM



End Cable Tap Off



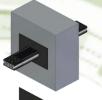
Ceiling trapeze (Rv)



Ceiling trapeze(Rh)



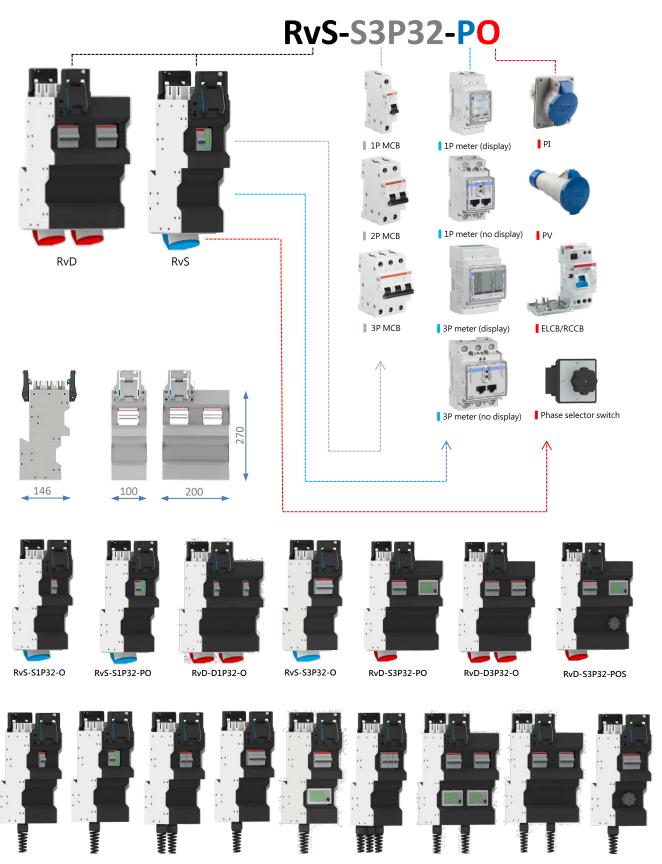
Spring hanger



P

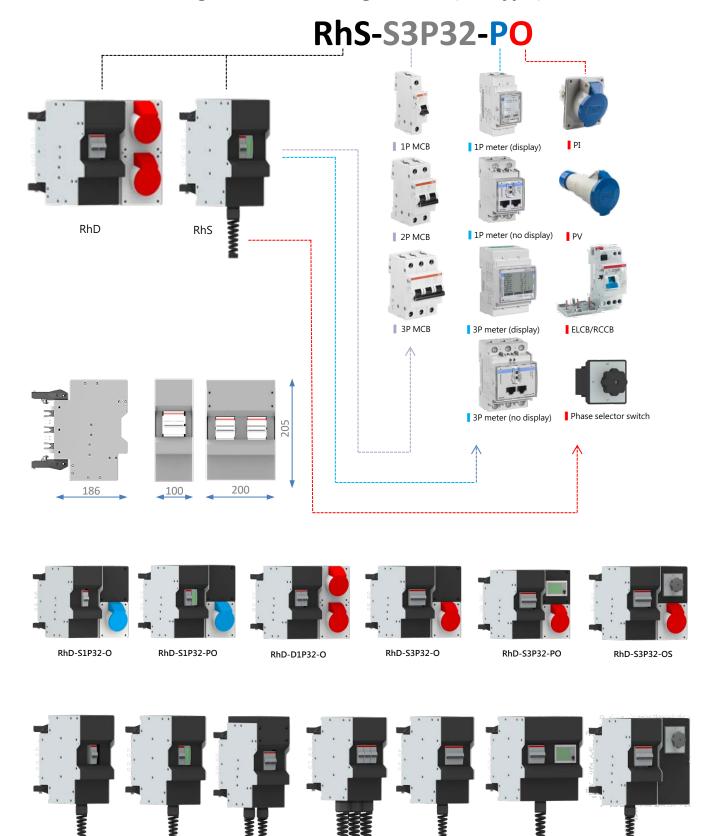
Wall/ Floor flange

Standard Configurations for Plug-In Unit (Rv type)



RvS-S1P32-G RvS-S1P32-PG RvS-D1P32-G RvS-S3P32-G RvS-S3P32-PG RvS-T1P32-G RvD-D3P32-PG RvD-D3P32-PG RvD-D3P32-G

Standard Configurations for Plug-In Unit (Rh type)



RvS-S3P32-G

RhD-S3P32-PG

RhD-S3P32-GS

RvS-S1P32-G

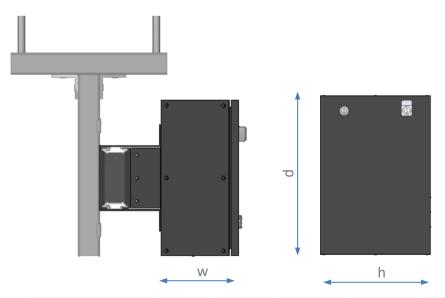
RhS-S1P32-PG

RhS-D1P32-G

RhS-T1P32-G

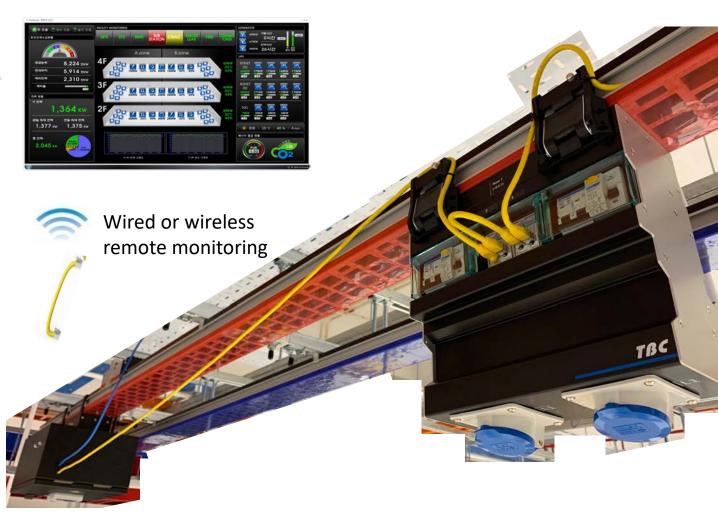
Cable End Feed Unit





Plug-in Amp. Ratings		250A	400A	630A	1250A	1600A	2000A
Catalogue number		Rt-3P250	Rt-3P400	Rt-3P630	Rt-3P1250	Rt-3P1600	Rt-3P2000
W	mm	160	160	160	250	250	250
Н	mm	300	300	300	300	300	300
D	mm	430	430	430	430	430	430
Color		RAL7043	RAL7043	RAL7043	RAL7043	RAL7043	RAL7043
IP Rating		IP42	IP42	IP42	IP42	IP42	IP42
Weight	kg	15	15	17	21	28	39

TBC Busway Monitoring System (stand-alone BCMS, or DCIM integration)





Photos





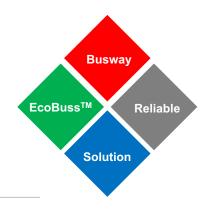












TBC Products & Services:

Busway • Taiwan Busway Company (TBC) was established in 2002 with the premise of delivering premium quality busway systems and solutions to our customers. Through the years, we were able to distinguish ourselves as the preferred busway supplier with the reputation for reliable product designs quality, timely delivery and ability to meet our commitments.

EcoBussTM • TBC's pioneering solution to increase power transmission & distribution efficiencies. Our latest technical innovation provide operational cost savings to the end-users.

Solution • Based on our customers requests and requirements, TBC is able to apply its core technology and competency in cast resin materials technology to develop new products and solutions to solve our customers' problems and to enhance their competitiveness.

Reliable • TBC products have been approved and used by TSMC, UMC, AUO, M+W, Natus(Germany), Eaton(USA), Petronas(Malaysia) and other world leading corporations or engineering consultants, which is a testament for the quality & reliability of the TBC products.

For more info, please visit: www.TBCbusway.com



Taiwan Busway Company, Ltd.

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