

BALE



PEC Series

BEC Series

PEC & BEC Series Energy Storage Connector

Make Outstanding Products

Provide Thanksgiving Services

Chengdu City Bale New Energy Technology Co. Ltd. (Abbr.: BALE), headquartered in the beautiful city southwest China - Chengdu.

BALE was established in 2021 and is located in the factory area and office area of the High tech Entrepreneurship Service Center (High tech Enterprise Incubation Park) in Wuhou District, Chengdu, with an area of over 1000 square meters. Since its establishment, Baile has been focusing on the selection and application promotion of high-voltage and high current connectors, low-voltage signal connectors, charging receptacles, and charging guns. At the same time, we also process and produce precast cable components, vehicle high-voltage power harnesses, low-voltage signal harnesses, and other products according to customer requirements. Our company is dedicated to providing efficient, fast, and low-cost product solutions for customers from all walks of life.

BALE has established a good quality assurance system. It has successfully passed ISO9001, ISO14001 quality and environment management system certification. Meanwhile it passed IATF 16949 international quality management system certification for automotive and parts field in December 2022 and become a qualified supplier in EV power equipment and high-voltage cable assembly and low-voltage wire harness and has provided many automotive manufacturers with products.



Factory: Chengdu Wuhou Hi-tech entrepreneurial Service Center
No.33, Wuqing South Road, Wuhou District, Chengdu City

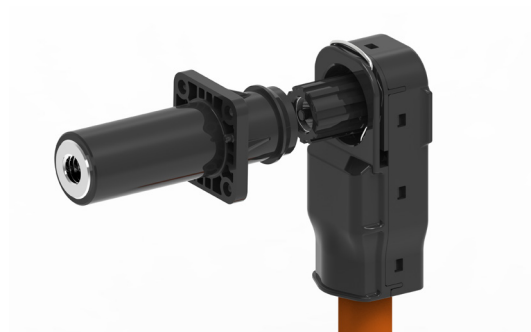
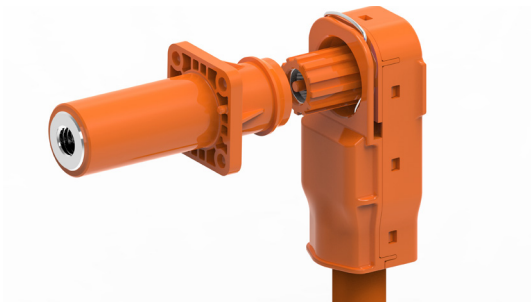
BALE is close to Wuhou Government Administrative Center. And it's very convenient in transportation since it's just 0.6 Km far from the third ring road and only 5 Km to Shuangliu Airport.

BALE adopts "Quality First, Credit First and Customer First" as the company objective and shares a good reputation in society and among customers. We will always provide high-quality products and best services to the customers. We sincerely welcome partners domestic and overseas to establish cooperation, seek common development, and create a brilliant future jointly!

PEC SERIES

The PEC series products are designed with a rated voltage of 1500VDC and rated currents of 200A, 300A, and 500A. There are two key positions, X and Y, and multiple connection methods to choose from.

PEC can connect cable of 25mm^2 to 150mm^2 that have been experimentally verified by our company, the product is mainly used for energy storage and other scenarios.



PEC SERIES TECHNICAL DATA

Item	PEC200 Series	PEC300 Series	PEC500 Series
Temperature Range	-40°C ~ +125°C		
Protection	IPXXB(Disassemble) ; IPXXD(assemble)		
Housing Body	High strength flame retardant plastic		
Rated voltage	1500VDC		
Contacts	Purple copper , Silver plated		
Max. Current	200A Max.	300A Max.	500A Max.
Terminal connecting resistance	≤0.6 mΩ		
Test Voltage	6000VDC ; 4000VAC		
Minimum Mating Cycles	No electrical or mechanical defects after more than 100 cycles of engagement and disengagement.		
Salt Spray Resistance	48 hour , 96 hour		
Shielded	Without		
HVIL	Without		
Dielectric strength	Leakage current(DC)≤1 mA ; Leakage current(AC)≤5 mA		
Vibration Resistance	No unlocking or unmating and exhibits no mechanical or physical damage after sinusoidal vibration levels of 10G's at 10 to 1000 Hz in each of the three mutually perpendicular planes. Connection resistance changes continuously greater than 7Ω's time less than 1 microsecond.		
Thermal Shock	No cracking, chipping or leaking after 20 test cycles from -40°C to +125°C.		
RoHS Compliant	Yes		

PRODUCT APPLICATION

Item	PEC200 Series	PEC300 Series	PEC500 Series
Energy storage cabinet	✓	✓	✓
Other high-voltage connection scenarios	✓	✓	✓

REFERENCE TEST STANDARDS

Item	PEC200 Series	PEC300 Series	PEC500 Series
LV215-1-2013	✓	✓	✓
USCAR-2-2013	✓	✓	✓
QC/T 1067.1-2017	✓	✓	✓

PEC200 SERIES

RECEPTACLE

Item	Busbar Lug (screw hole)	Busbar Lug (Through-hole)	Busbar Lug (long hole)
Pictures			
Product code	PEC08(*)-200-10M(&)	PEC08(*)-200-10D(&)	PEC08(*)-200-10H(&)

Item	Thread Pin
Pictures	
Product code	PEC08(*)-200-20M8

NOTES:
(*) Denote key position: X , Y
(&) Denote busbar dimension with hole: M6 , M8 ; D6 , D8 ; H6 , H8

HOW TO ORDER RECEPTACLE? PART NUMBER SYSTEMS

Pictures	
PEC 08 X - 200 - 10 M6 PEC Series (A) Connector type : 08 : Energy storage connector receptacle (B) Key position and color : "X" Key position , Orange ; "Y" Key position , Black (C) Product Series : 200 : 200A Series (D) Connection type : 10 : Busbar Lug ; 20 : Thread Pin (E) Connection size : Screw hole: M6 , M8 ; Through-hole : D6 , D8 ; Long hole : H6 , H8 Note: The above models are not all, please contact your sales representative if necessary.	

PEC200 SERIES

PLUG

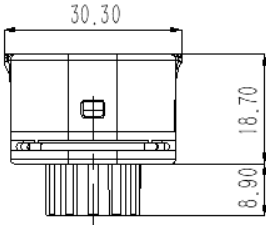
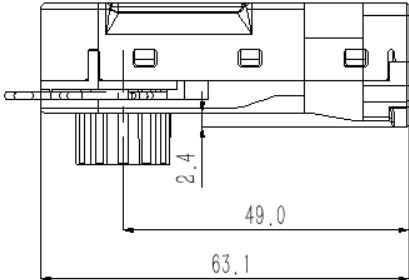
Item	Assembly Type Plug
Pictures	
Product code	PEC58(*)-200-(&)

NOTES:
(*) Denote Key position: X , Y
(&) Denote Cable specifications: 25 , 35 , 50

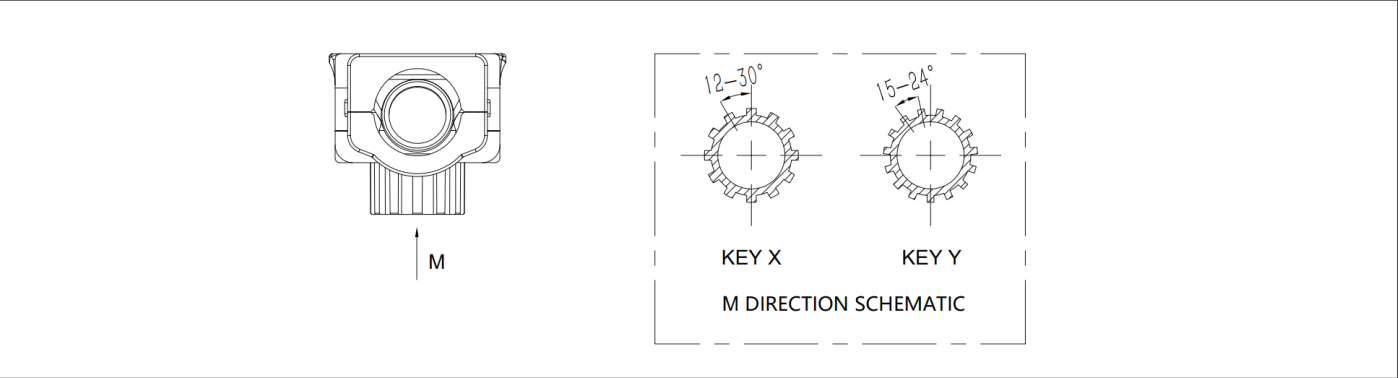
HOW TO ORDER PLUG? PART NUMBER SYSTEMS

Pictures	 PEC Series (A) Connector type : Energy storage connector plug (B) Key position and color: "X" Key position , Orange ; "Y" Key position , Black (C) Product Series : 200 : 200A Series (D) Cable specifications : 25 mm² , 35 mm² , 50 mm² Note: The above models are not all, please contact your sales representative if necessary.	PEC 58 X - 200 - 25
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PLUG DIMENSION

PEC58(*)-200-(&)	
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PLUG KEY POSITION



PLUG PARAMETER TABLE

Series	Accepted Cable Specifications	Rated Voltage	Rated Current	Product Number	Pictures
200 Series (X Key position)	25mm ²	1500V	120A	PEC58X-200-25	
	35mm ²	1500V	150A	PEC58X-200-35	
	50mm ²	1500V	200A	PEC58X-200-50	
200 Series (Y Key position)	25mm ²	1500V	120A	PEC58Y-200-25	
	35mm ²	1500V	150A	PEC58Y-200-35	
	50mm ²	1500V	200A	PEC58Y-200-50	

PEC300 SERIES

RECEPTACLE

Item	Busbar Lug (Screw hole)	Busbar Lug (Through-hole)	Busbar Lug (Long hole)
Pictures			
Product code	PEC08(*)-300-10M(&)	PEC08(*)-300-10D(&)	PEC08(*)-300-10H(&)

Item	Thread Pin	Internal Screw Hole
Pictures		
Product code	PEC08(*)-300-20M(&)	PEC08(*)-300-40M(&)

NOTES:

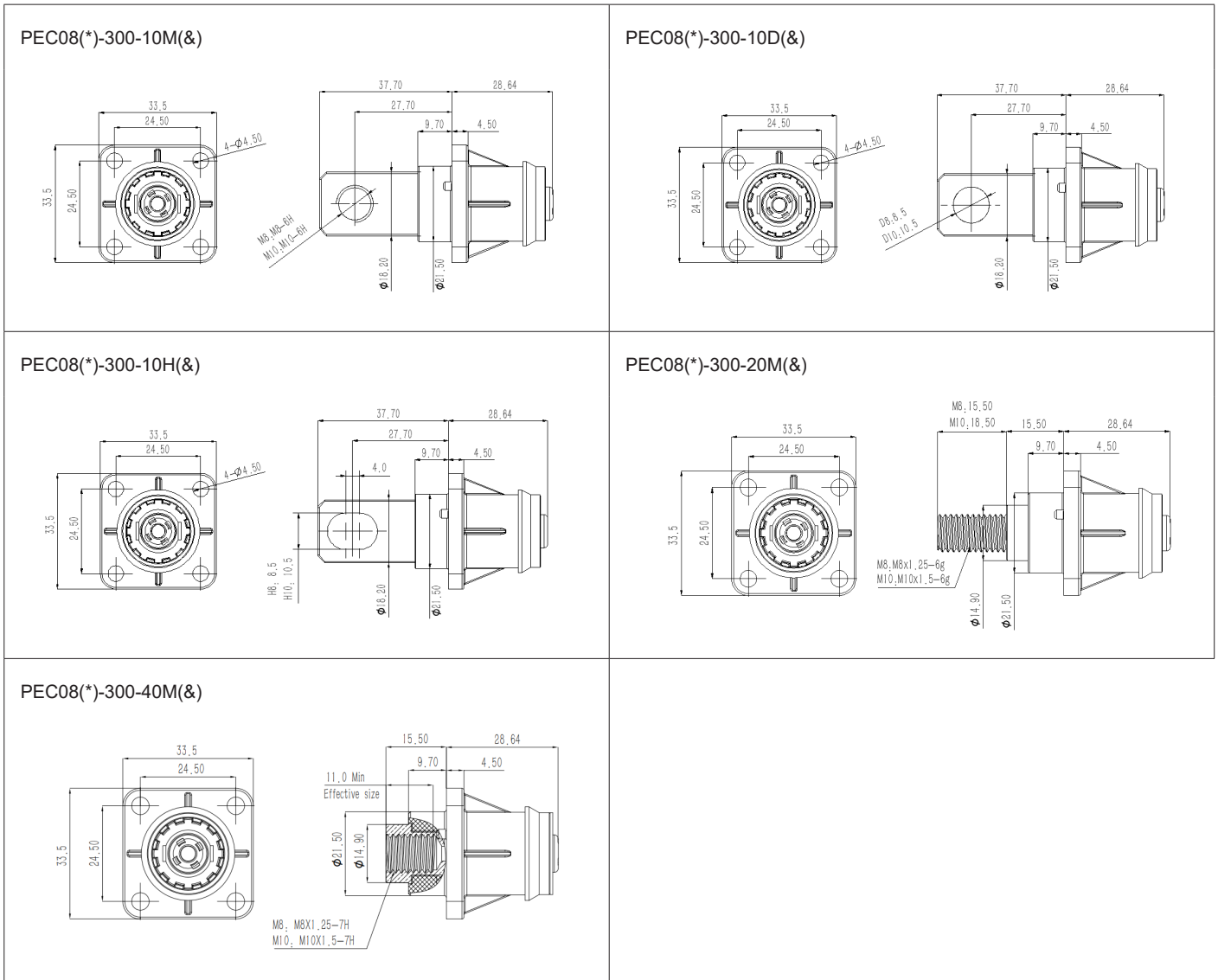
(*) Denote Key position: X , Y

(&) Denote Busbar Lug Hole Dimension: M8 , M10 ; D8 , D10 ; H8 , H10 Thread Pin or Internal Screw Hole Dimension: M8 , M10

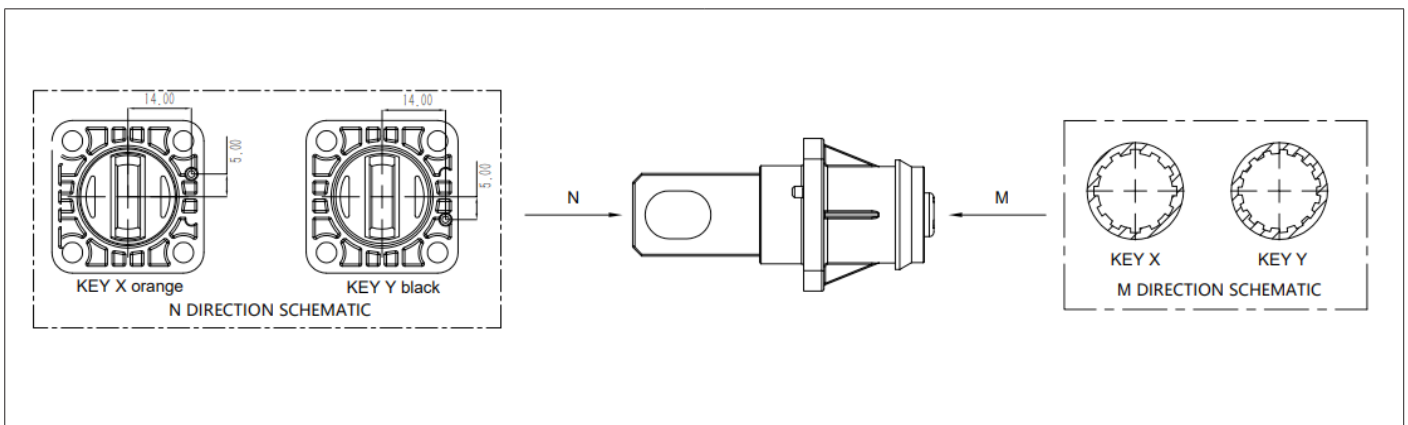
HOW TO ORDER RECEPTACLE? PART NUMBER SYSTEMS

Pictures	
	PEC 08 X - 300 - 10 M8 PEC Series (A) Connector type : 08 : Energy storage connector receptacle (B) Key position and color : "X" Key position , Orange ; "Y" Key position , Black (C) Product Series : 300 : 300A Series (D) Connection type : 10 : Busbar Lug ; 20 : Thread Pin ; 40 : Internal Screw Hole (E) Connection size : Screw hole : M8 , M10 ; Through-hole : D8 , D10 ; Long hole : H8 , H10 Thread Pin : M8 , M10 ; Internal Screw Hole : M8 , M10 Note: The above models are not all, please contact your sales representative if necessary.

RECEPTACLE INSTALL DIMENSION

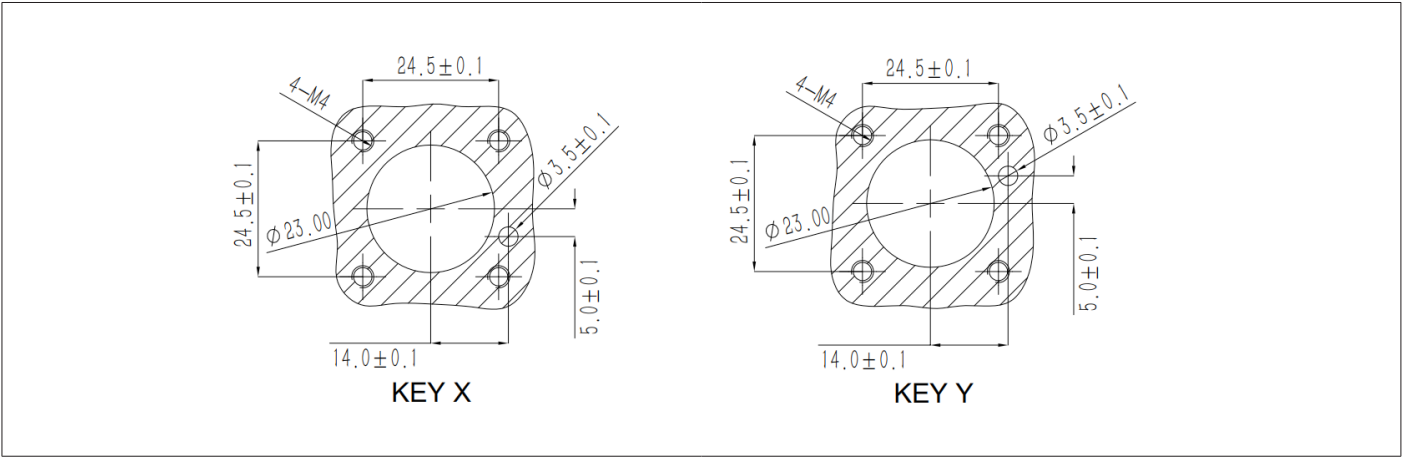


RECEPTACLE KEY POSITION



PEC300 SERIES

RECEPTACLE INSTALLATION DIMENSIONS



PLUG

Item	Assembly Type Plug
Pictures	
Product code	PEC58(*)-300-(&)

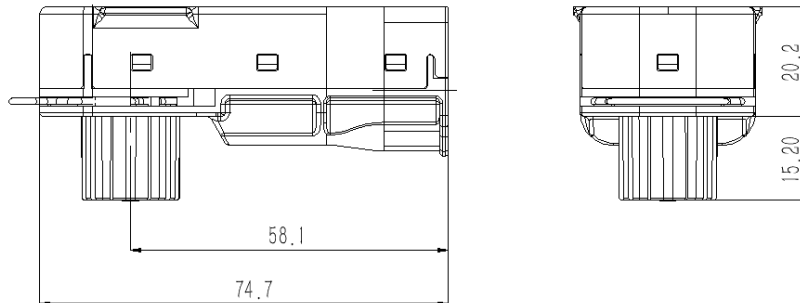
NOTES:
(*) Denote Key position: X, Y
(&) Denote Cable specifications: 70, 95

HOW TO ORDER PLUG? PART NUMBER SYSTEMS

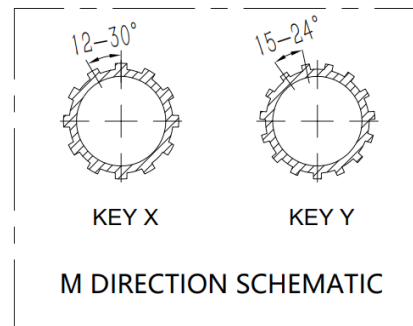
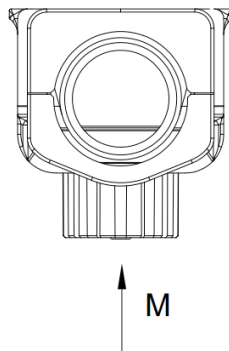
Pictures		PEC 58 X - 300 - 70 PEC Series (A) Connector type : Energy Storage Connector Plug (B) Key position and color: "X" Key position , Orange ; "Y" Key position , Black (C) Product series : 300 : 300A Series (D) Cable specifications : 70 mm² , 95 mm² Note: The above models are not all, please contact your sales representative if necessary.
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PLUG DIMENSION

PEC58(*)-300-(&)



PLUG KEY POSITION



PLUG PARAMETER TABLE

Series	Accepted Cable Size	Rated Voltage	Rated Current	Product Number	Pictures
300 Series (X Key position)	70mm ²	1500V	250A	PEC58X-300-70	
	95mm ²	1500V	300A	PEC58X-300-95	
300 Series (Y Key position)	70mm ²	1500V	250A	PEC58Y-300-70	
	95mm ²	1500V	300A	PEC58Y-300-95	

PEC500 SERIES

RECEPTACLE

Item	Busbar Lug (screw hole)	Busbar Lug (Through-hole)	Busbar Lug (long hole)
Pictures			
Product code	PEC08(*)-500-10M(&)	PEC08(*)-500-10D(&)	PEC08(*)-500-10H(&)

Item	Thread Pin	Internal screw hole
Pictures		
Product code	PEC08(*)-500-20M(&)	PEC08(*)-500-40M(&)

NOTES:

(*) Denote Key position: X , Y

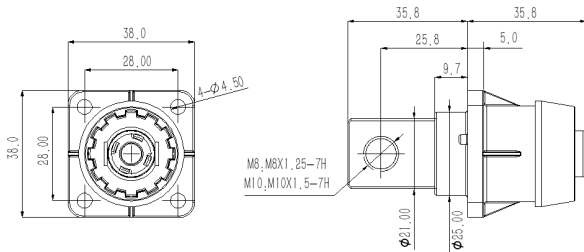
(&) Denote Busbar Lug Hole Dimension: M8 , M10 ; D8 , D10 ; H8 , H10 Thread Pin or Internal Screw Hole Dimension: M8 , M10

HOW TO ORDER RECEPTACLE? PART NUMBER SYSTEMS

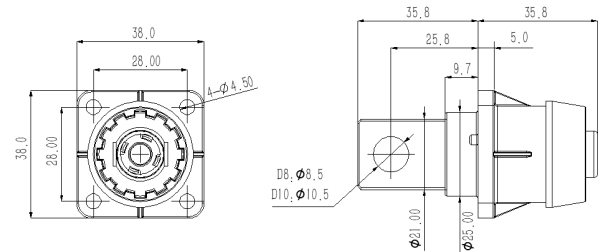
Pictures		PEC 08 X - 500 - 10 M8 PEC Series (A) Connector type : 08 : Energy storage connector receptacle (B) Key position and color : "X" Key position , Orange ; "Y" Key position , Black (C) Product series : 500 : 500A Series (D) Connection type : 10 : Busbar Lug ; 20 : Thread Pin ; 40 : Internal Screw Hole (E) Connection size : Screw hole: M8 , M10 ; Through-hole : D8 , D10 ; Long hole : H8 , H10 Thread Pin : M8 , M10 ; Internal Screw Hole : M8 , M10 Note: The above models are not all, please contact your sales representative if necessary.
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RECEPTACLE INSTALL DIMENSION

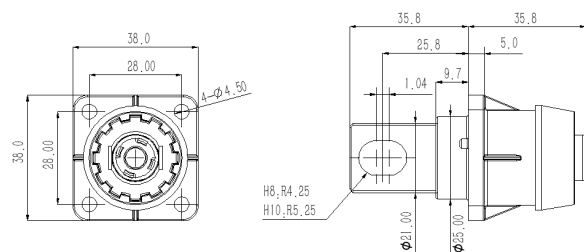
PEC08(*)-500-10M(&)



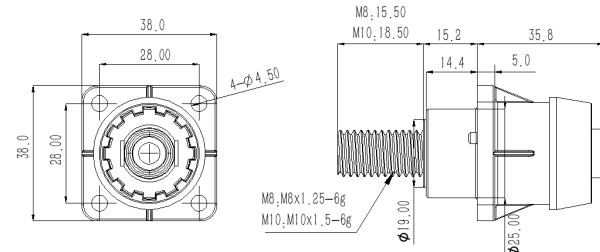
PEC08(*)-500-10D(&)



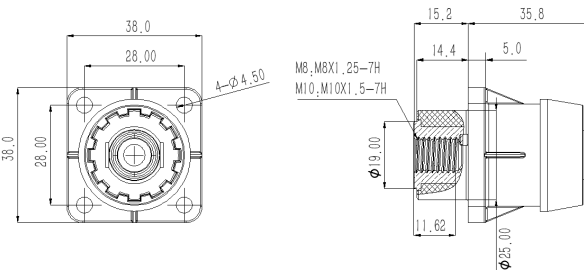
PEC08(*)-500-10H(&)



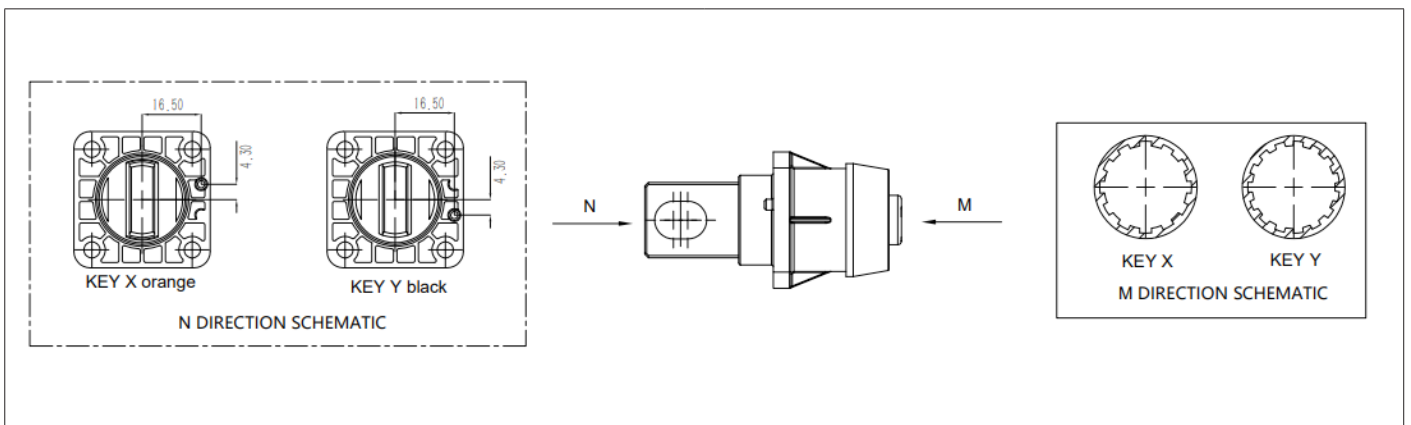
PEC08(*)-500-20M(&)



PEC08(*)-500-40M(&)

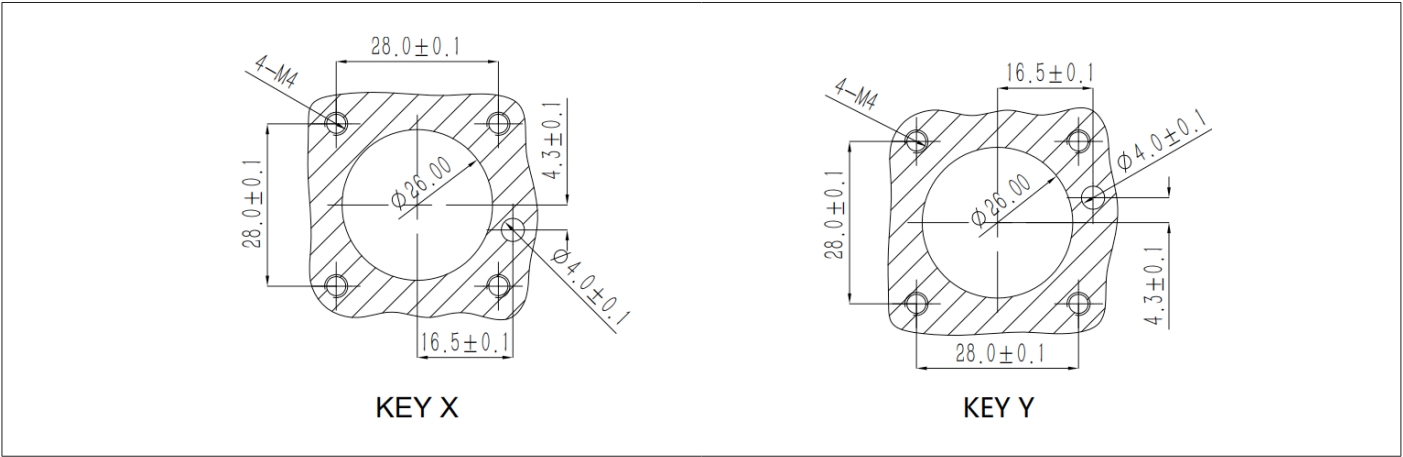


RECEPTACLE KEY POSITION



PEC500 SERIES

RECEPTACLE INSTALLATION DIMENSIONS



PLUG

Item	Assembly Type Plug
Pictures	
Product code	PEC58(*)-500-&)

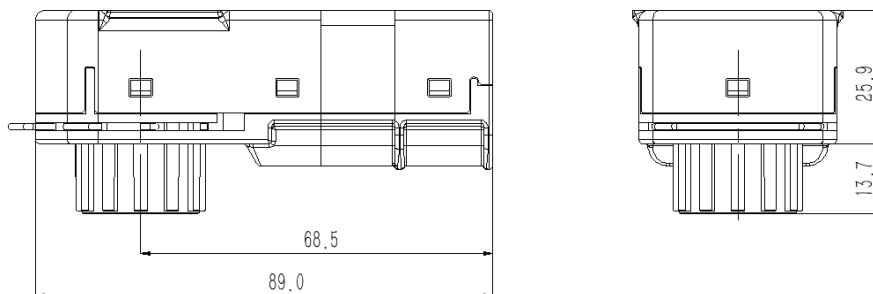
NOTES:
(*) Denote Key Position: X, Y
(&) Denote Cable Specifications: 120, 135, 150

HOW TO ORDER PLUG? PART NUMBER SYSTEMS

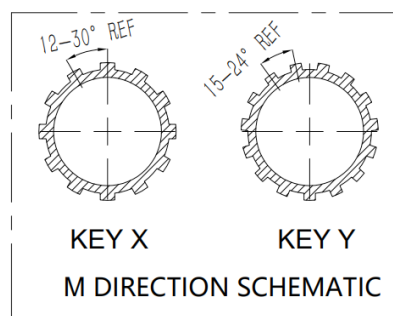
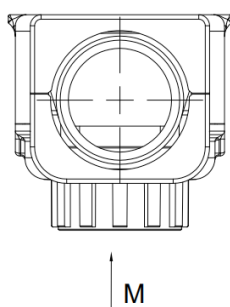
Pictures		PEC 58 X - 500 - 120
	PEC Series	
	(A) Connector type : Energy Storage Connector Plug	
	(B) Key position and color: "X" Key position, Orange; "Y" Key position, Black	
	(C) Product series : 500 : 500A Series	
	(D) Cable specifications : 120 mm ² , 135 mm ² , 150 mm ²	
	Note: The above models are not all, please contact your sales representative if necessary.	

PLUG DIMENSION

PEC58(*)-500-(&)



PLUG KEY POSITION



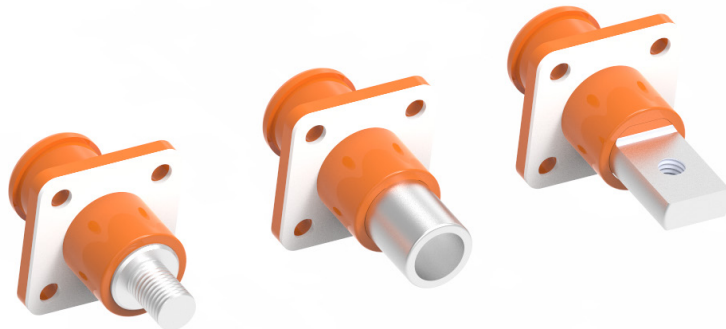
PLUG PARAMETER TABLE

Series	Accepted Cable Size	Rated Voltage	Rated Current	Product Number	Pictures
500 Series (X Key position)	120mm ²	1500V	350A	PEC58X-500-120	
	135mm ²	1500V	400A	PEC58X-500-135	
	150mm ²	1500V	450A	PEC58X-500-150	
500 Series (Y Key position)	120mm ²	1500V	350A	PEC58Y-500-120	
	135mm ²	1500V	400A	PEC58Y-500-135	
	150mm ²	1500V	450A	PEC58Y-500-150	

BEC SERIES

The BEC series products are designed with a rated voltage of 1500VDC and rated currents of 120A and 200A , here are two key positions, X and Y, and multiple connection methods to choose from.Meet higher protection level: IP68.

BEC can connect cable of 16mm² to 50mm² that have been experimentally verified by our company,the product is mainly used for energy storage and other scenarios.



BEC SERIES TECHNICAL DATA

Item	BEC120 Series	BEC200 Series
Temperature Range	-40°C ~ +125°C	
Protection	IP68	
Housing Body	High strength flame retardant plastic	
Rated Voltage	1500VDC	
Contacts	Purple copper , Silver plated	
Max. Current	120A Max.	200A Max.
Terminal connecting resistance	≤0.5 mΩ	
Test Voltage	6000VDC ; 4000VAC	
Minimum Mating Cycles	No electrical or mechanical defects after more than 100 cycles of engagement and disengagement.	
Salt Spray Resistance	48 hour , 96 hour	
Shielded	Without	
HVIL	Without	
Dielectric strength	Leakage current(DC)≤1 mA ; Leakage current(AC)≤5 mA	
Vibration Resistance	No unlocking or unmating and exhibits no mechanical or physical damage after sinusoidal vibration levels of 10G's at 10 to 1000 Hz in each of the three mutually perpendicular planes. Connection resistance changes continuously greater than 7Ω's time less than 1 microsecond.	
Thermal Shock	No cracking, chipping or leaking after 20 test cycles from -40°C to +125°C.	
RoHS Compliant	Yes	

PRODUCT APPLICATION

Item	BEC120 Series	BEC200 Series
Energy storage cabinet	✓	✓



BEC120 SERIES

RECEPTACLE

Item	Busbar Lug (screw hole)	Busbar Lug (long hole)	Thread Pin
Pictures			
Product code	BEC08(*)-120-10M5	BEC08(*)-120-10H5	BEC08(*)-120-20M6

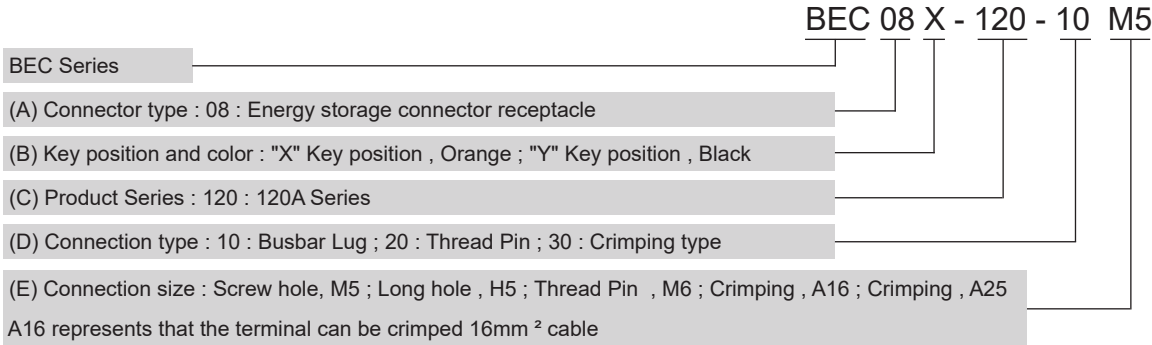
Item	Crimping type
Pictures	
Product code	BEC08(*)-120-30A(&)

NOTES:

(*) Denote Key position: X , Y

(&) Denote the size of the cable that can be crimped is 16 , 25 mm²

HOW TO ORDER RECEPTACLE? PART NUMBER SYSTEMS

Pictures		BEC 08 X - 120 - 10 M5
	BEC Series (A) Connector type : 08 : Energy storage connector receptacle (B) Key position and color : "X" Key position , Orange ; "Y" Key position , Black (C) Product Series : 120 : 120A Series (D) Connection type : 10 : Busbar Lug ; 20 : Thread Pin ; 30 : Crimping type (E) Connection size : Screw hole, M5 ; Long hole , H5 ; Thread Pin , M6 ; Crimping , A16 ; Crimping , A25 A16 represents that the terminal can be crimped 16mm² cable Note: The above models are not all, please contact your sales representative if necessary.	

RECEPTACLE INSTALL DIMENSION

BEC08(*)-120-10M5	BEC08(*)-120-10H5
BEC08(*)-120-20M6	BEC08(*)-120-30A(&)

RECEPTACLE INSTALLATION DIMENSIONS

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PLUG

Item	PLUG
Pictures	
Product code	BEC58(*)-120-(&)

NOTES:

(*) Denote key position: X, Y

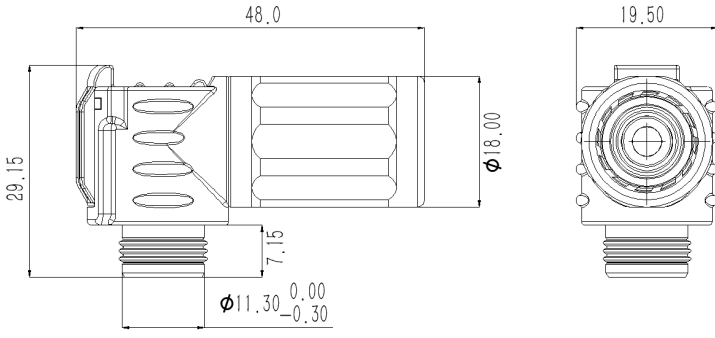
(&) Denote cable specifications: 16, 25

BEC120 SERIES

HOW TO ORDER PLUG? PART NUMBER SYSTEMS

Pictures	
	BEC 58 X - 120 - 25 BEC Series (A) Connector type : Energy Storage Connector Plug (B) Key position and color: "X" Key position , Orange ; "Y" Key position , Black (C) Product series : 120 : 120A Series (D) Cable specifications : 16 mm² , 25 mm² Note: The above models are not all, please contact your sales representative if necessary.

PLUG DIMENSION

BEC58(*)-120-(&)	 Technical drawing of the BEC58 plug showing side and front views with dimensions: - Side View Dimensions: - Overall Length: 48.0 - Overall Width: 29.15 - Flange Width: 18.00 - Flange Thickness: 7.15 - Base Diameter: $\phi 11.30^{+0.00}_{-0.30}$ - Front View Dimensions: - Overall Diameter: 19.50
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PLUG PARAMETER TABLE

Series	Accepted Cable Specifications	Rated Voltage	Rated Current	Product number	Pictures
120 Series (X Key position)	16mm ²	1500V	90A	BEC58X-120-16	
	25mm ²	1500V	120A	BEC58X-120-25	
120 Series (Y Key position)	16mm ²	1500V	90A	BEC58Y-120-16	
	25mm ²	1500V	120A	BEC58Y-120-25	

RECEPTACLE

Item	Busbar Lug (screw hole)	Busbar Lug (long hole)	Thread Pin
Pictures			
Product code	BEC08(*)-200-10M6	BEC08(*)-200-10H5	BEC08(*)-200-20M8

Item	Crimping type
Pictures	
Product code	BEC08(*)-200-30A(&)

NOTES:

(*) Denote Key position: X , Y

(&) Denote the size of the cable that can be crimped is: 35 , 50

HOW TO ORDER RECEPTACLE? PART NUMBER SYSTEMS

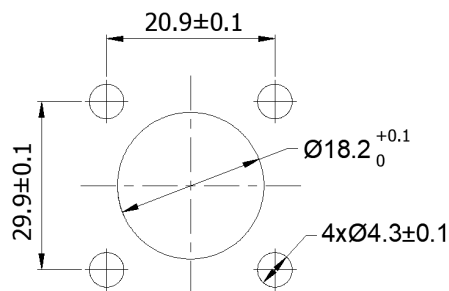
Pictures	
	BEC 08 X - 200 - 10 M6 BEC Series (A) Connector type : 08 : Energy storage connector receptacle (B) Key position and color : "X" Key position , Orange ; "Y" Key position , Black (C) Product series : 200 : 200A Series (D) Connection type : 10 : Busbar Lug ; 20 : Thread Pin ; 30 : Crimping type (E) Connection size : Screw hole, M6 ; Long hole , H5 ; Thread Pin , M8; Crimping , A35 ; Crimping , A50 A35 represents that the terminal can be crimped 35mm² cable Note: The above models are not all, please contact your sales representative if necessary.

BEC200 SERIES

RECEPTACLE INSTALL DIMENSION

BEC08(*)-200-10M6	BEC08(*)-200-10H5
BEC08(*)-200-20M8	BEC08(*)-200-30A(&)

RECEPTACLE INSTALLATION DIMENSIONS



PLUG

Item	PLUG
Pictures	
Product code	BEC58(*)-200-(&)

NOTES:

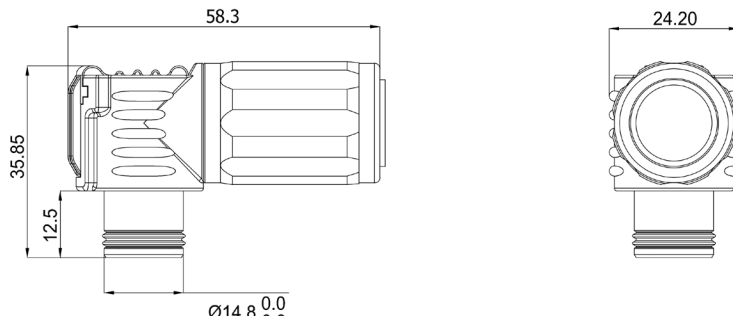
(*) Denote key position: X, Y

(&) Denote cable specifications: 35, 50

HOW TO ORDER PLUG? PART NUMBER SYSTEMS

Pictures	
	BEC Series
	(A) Connector type : Energy storage connector plug
	(B) Key position and color: "X" Key position , Orange ; "Y" Key position , Black
	(C) Product series : 200 : 200A Series
	(D) Cable specifications : 35 mm ² , 50 mm ²
	Note: The above models are not all, please contact your sales representative if necessary.

PLUG DIMENSION

BEC58(*)-200-(&)	
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PLUG PARAMETER TABLE

Series	Accepted Cable specifications	Rated Voltage	Rated Current	Product Number	Pictures
200 Series (X Key position)	35mm ²	1500V	150A	BEC58X-200-35	
	50mm ²	1500V	200A	BEC58X-200-50	
200 Series (Y Key position)	35mm ²	1500V	150A	BEC58Y-200-35	
	50mm ²	1500V	200A	BEC58Y-200-50	

Connect The EV Safer

Chengdu City Bale New Energy Technology Co. Ltd

Contact Enterprise:

Tel.: +86 189 8216 4769

Fax: +86 4008266163-03685

Zip Code: 610045

E-mail: 405763121@qq.com

Address: No. 517-520, Building 2 , No.33 , Wuqing
South Road , Wuhou District , Chengdu City

