

Branch Connection Harness

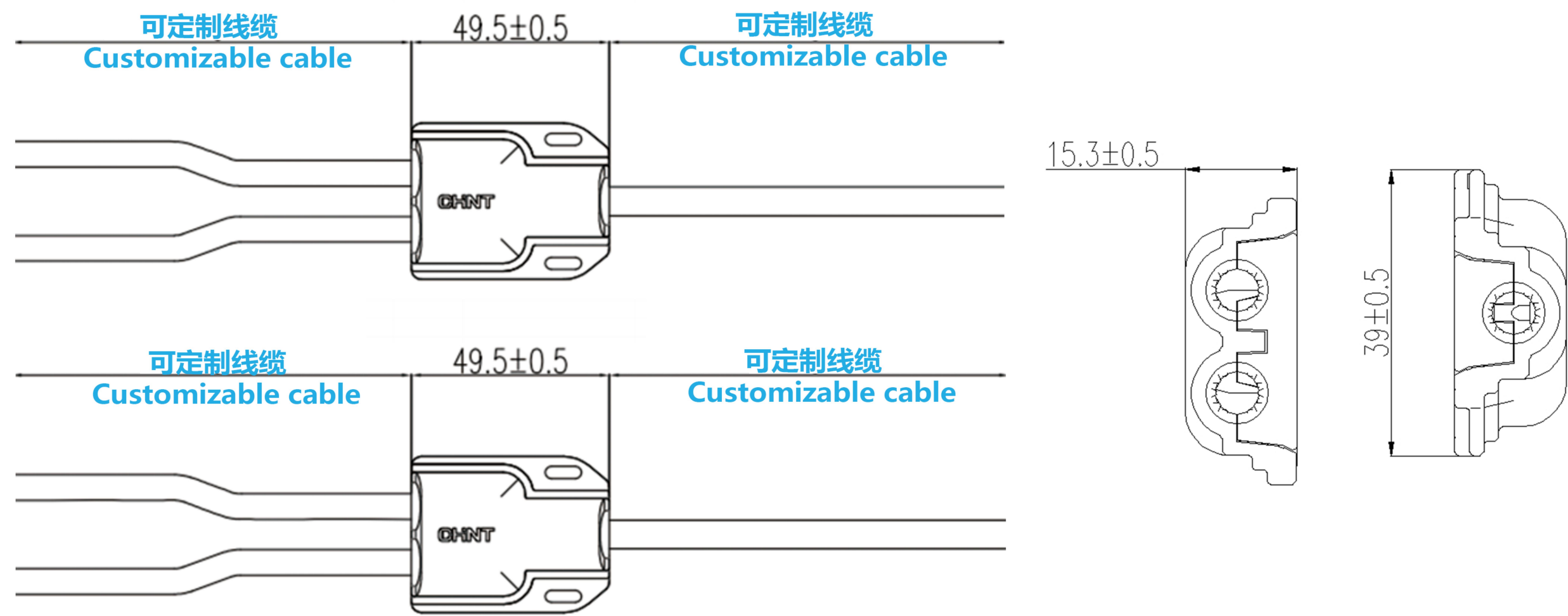
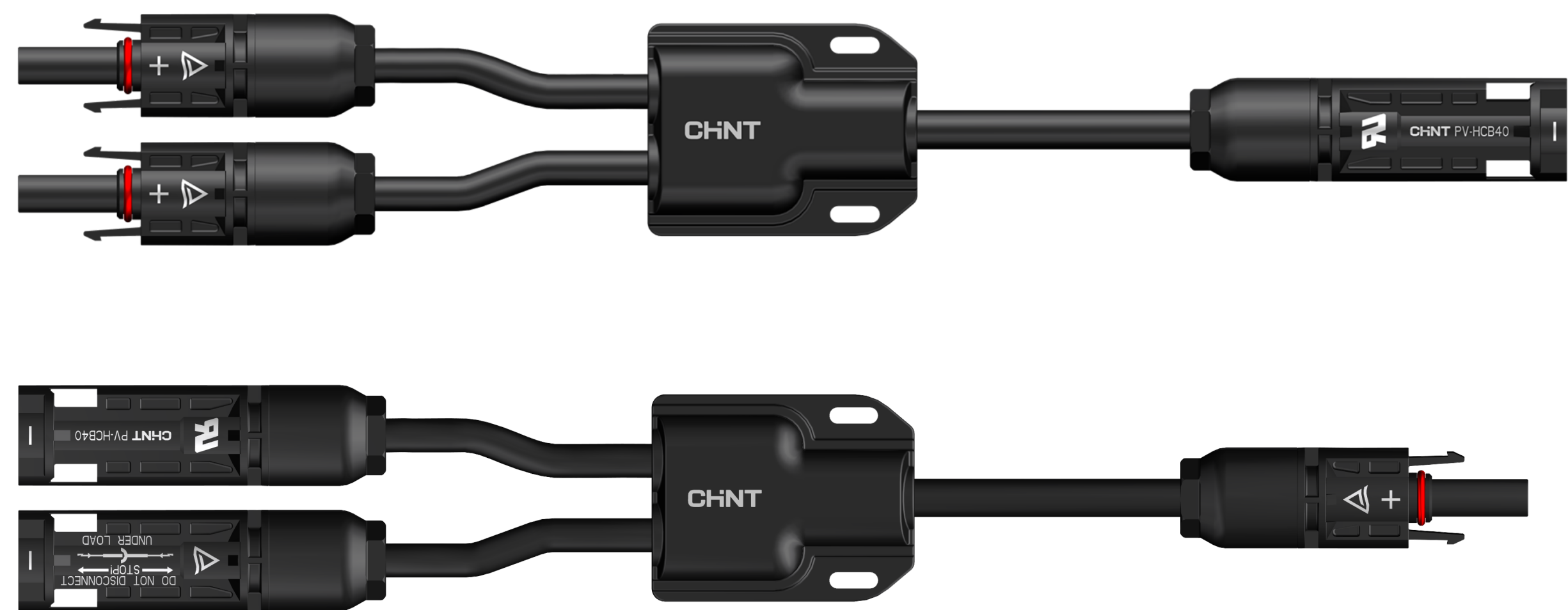
PV-Yx



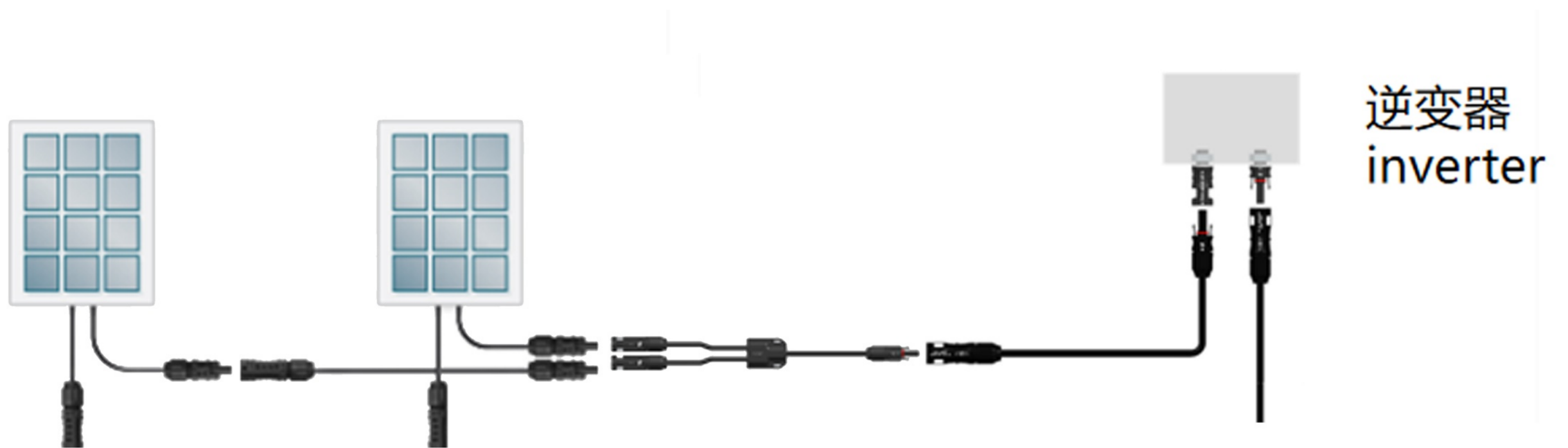
新品发布

New Product Release

Outline Dimensions



Function description



The product has the following functions:

1. Electrical connection: connect the power generated by solar modules with external lines to conduct the current generated by photovoltaic modules.
2. Used for wiring photovoltaic systems. However, it cannot be directly connected to the panel socket on the inverter.

Technical Parameters

Product Name:	PV-Yx
Rated Current:	TUV(35/40/46/54 A)
Rated Voltage:	1000/1500 V DC
Temperature Range:	-40 °C~+85 °C
Protection Degree:	IP66/IP68(1 m,1 h)
Rated Cable Wire:	2.5/4/6 mm²
	14/12/10 AWG
Overall Dimensions:	49.5 mm*39 mm*15.3 mm
Safety Degre:	II
Flame Resistance:	UL94 5VB
Insulation Materia:	PPO+AB Sealant
Contact Resistance:	≤0.15 mΩ
Contact Material:	Copper、 Tin-coated
Optional Connector:	PV-HCA30/MC4(1000V),PV-
	HCB40/New PV-HCB40/MC4
	EVO2(1500 V)and so on
Product Type:	PV-Y1
	PV-Y2
	PV-Y3
	PV-Y4

Product Advantages

1.Ingress Protection Rating IP66/IP68:

Potting design with excellent adhesion between the potting compound and the housing, ensuring superior sealing performance.

Closed-loop base structure combined with ultrasonic technology enhances sealing capabilities.

2.Longer Service Life:

Premium housing material offers excellent UV resistance and anti-aging properties. Combined with potting sealing technology, it overcomes defects of traditional encapsulation methods, such as delamination and poor impact resistance.

3.Classic Housing Design, Integrating Sealing and Heat Dissipation:

Three-layer structure: The conductor is covered with potting compound (soft protection), followed by an outer shell (hard protection) to prevent delamination caused by thermal expansion and contraction.

4.Optimized Port Design:

Capable of withstanding higher torque and long-term use without delamination, addressing industry pain points.

Product Advantages

5.Safe and Reliable Connection

The cable and conductor adopt riveting and tinning processes, ensuring minimal contact resistance and low power loss.

6.Convenient Installation for Customers:

Ear-mount design and compact size allow easy placement within cable trays.

The housing width matches the installation dimensions.

7.Multiple Configuration Options:

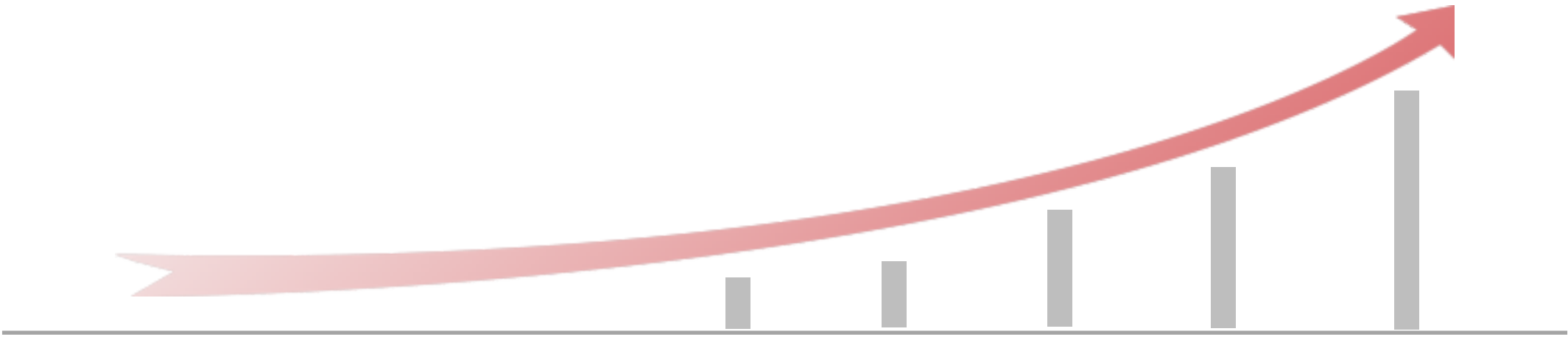
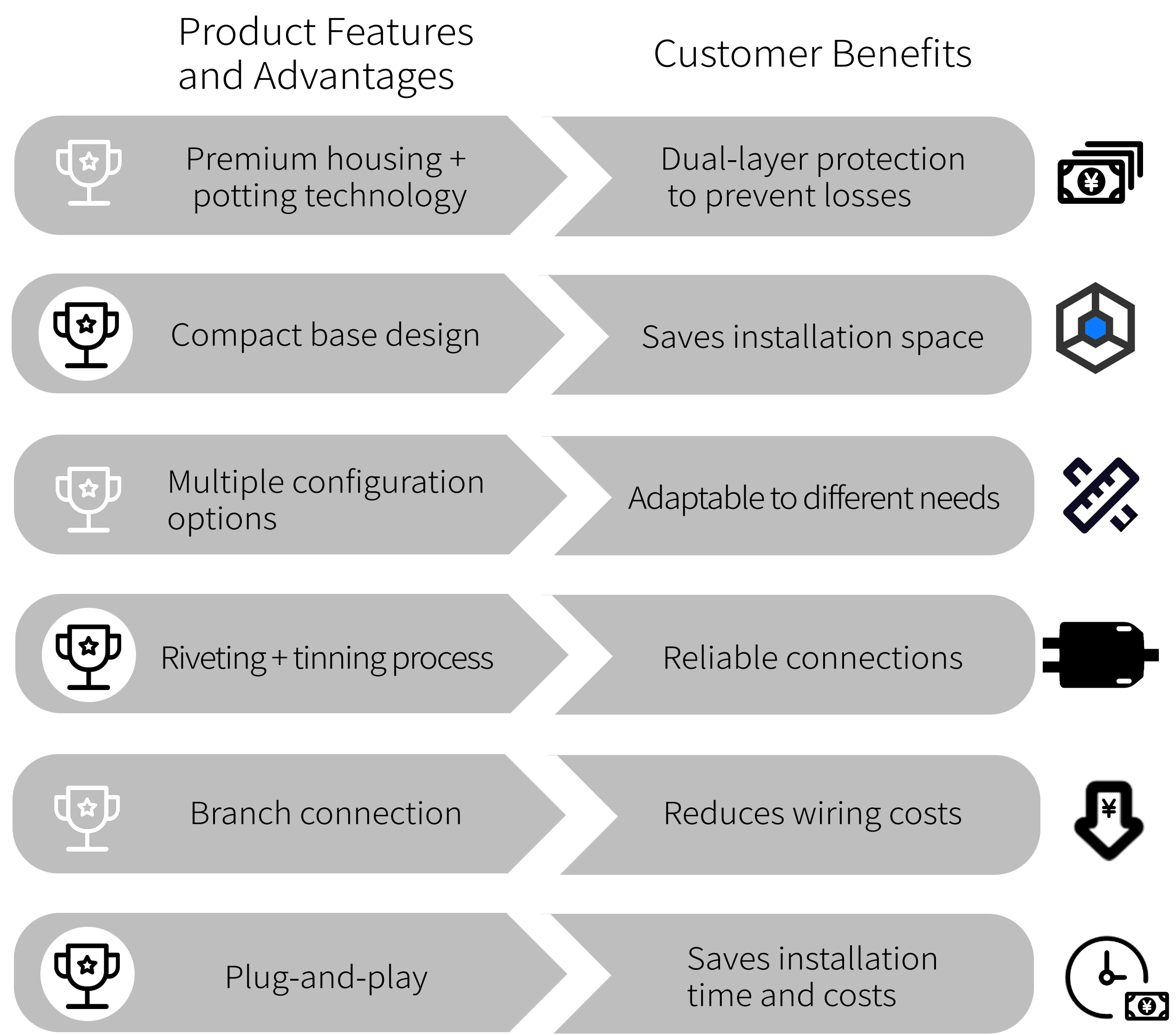
Available in various specifications to accommodate different cable sizes and connectors;

Customization is also supported.

8.High Rated Current:

Maximum rated current up to 54A, meeting the high-current requirements of large power photovoltaic modules.

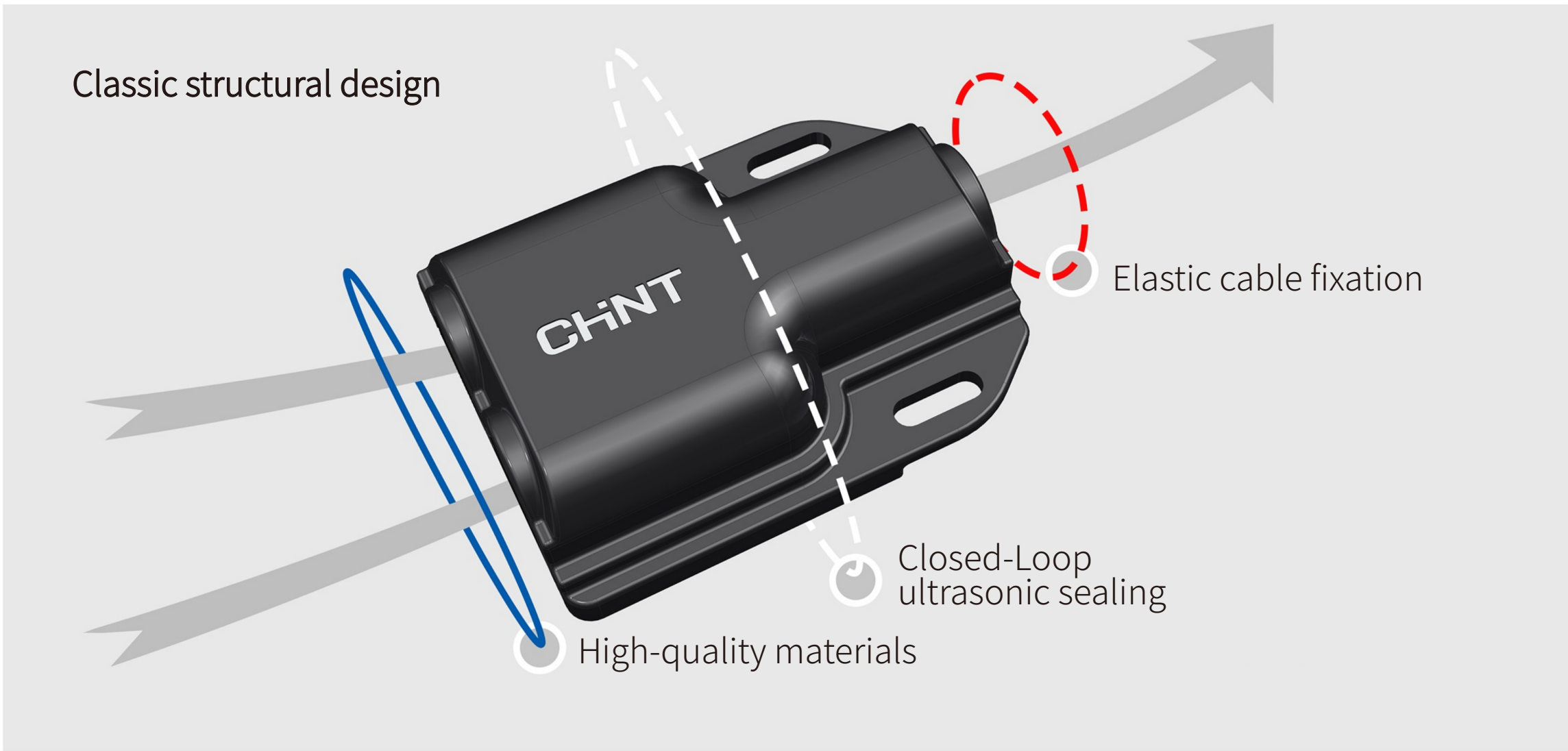
Product Features & Benefits



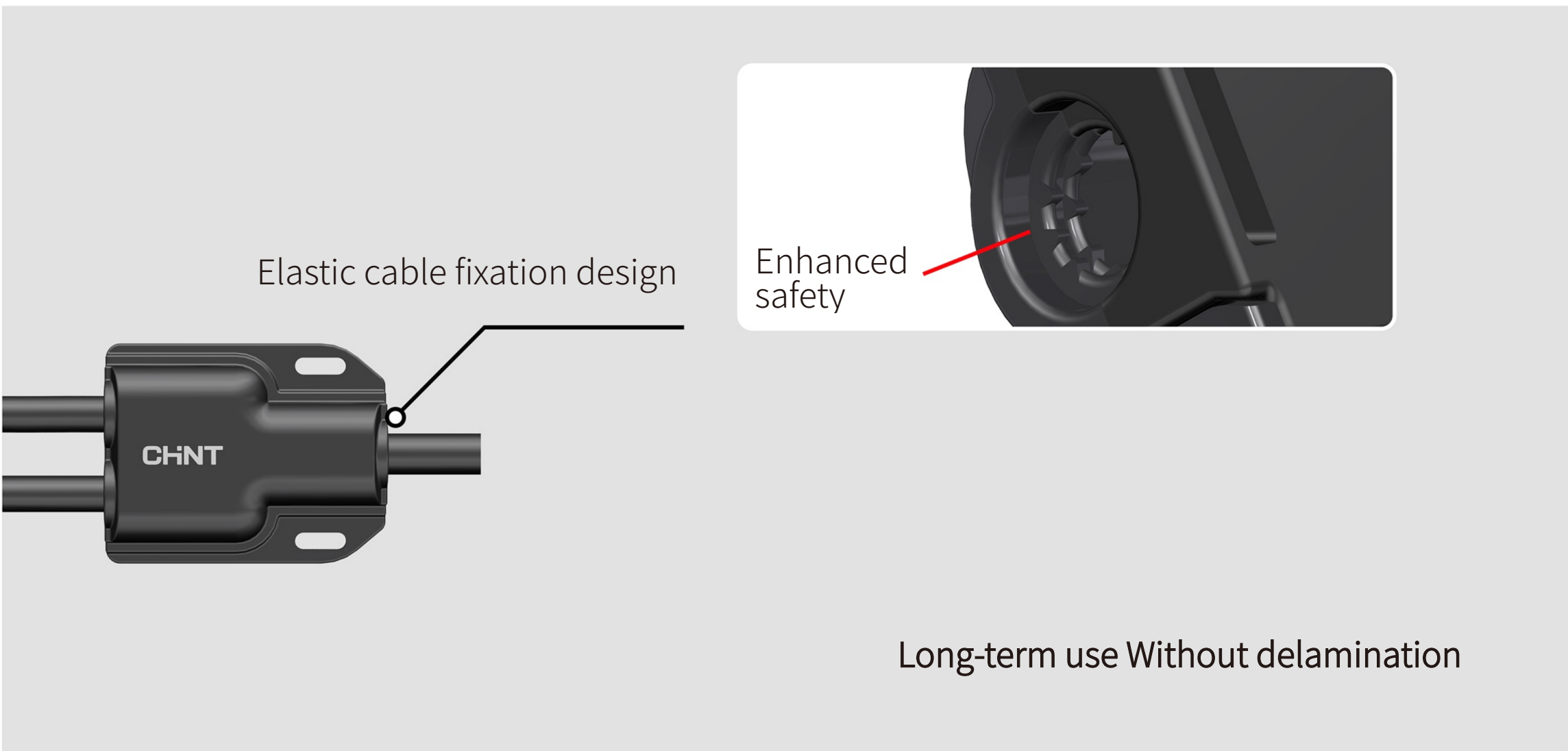
Customer-Centric Values.Focus on customer needs.
Commitment to product quality.Providing reliable products and services.

Product Features

Three Core Advantages Ensuring Maximum Benefits



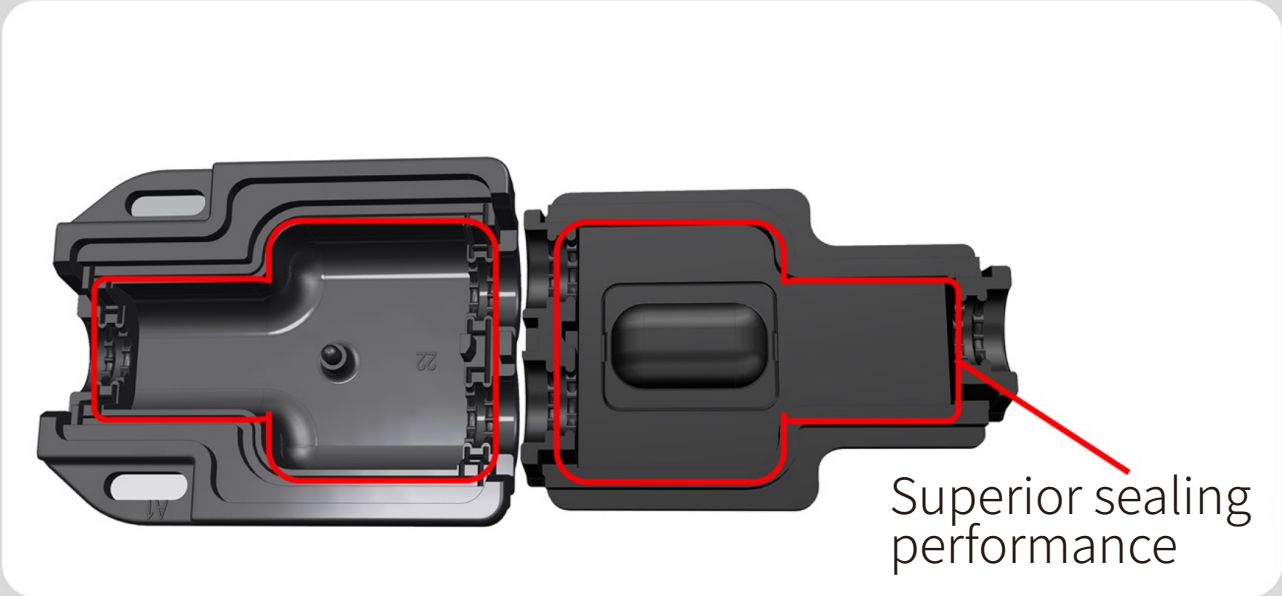
Globally Unique Cable Fixation Design



Product Features

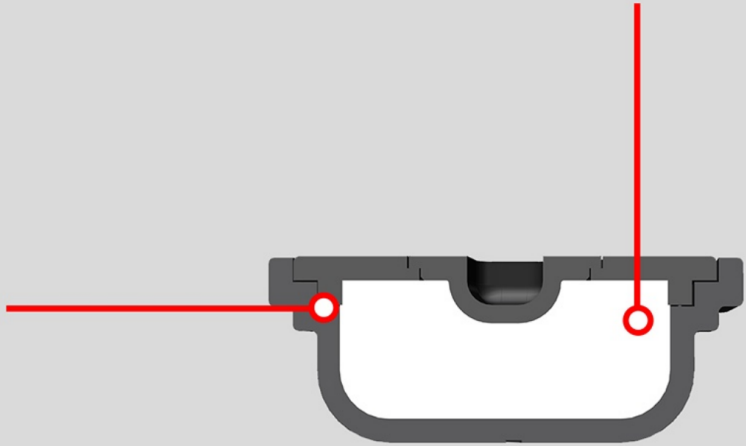
Closed-Loop Ultrasonic Double Sealing

Closed-loop ultrasonic technology



Superior sealing performance


potting

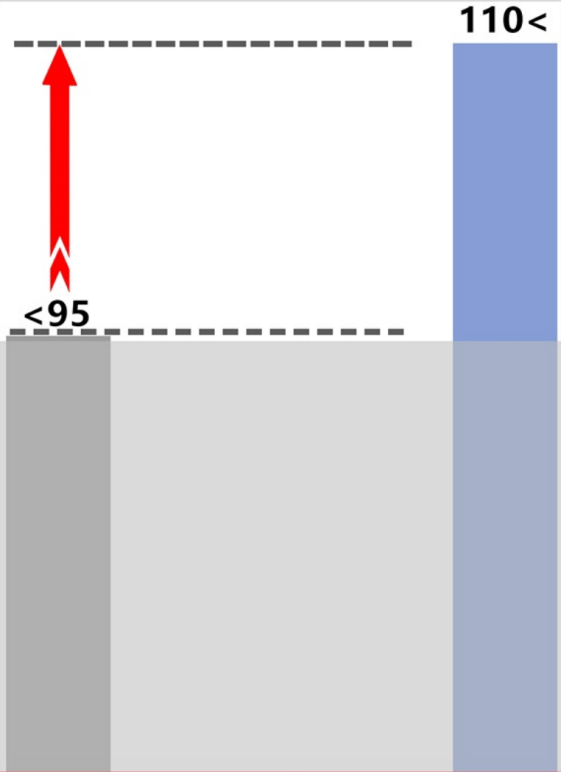


Double sealing with closed-loop ultrasonic and potting


Premium Housing Ensures Product Quality


High-quality housing materials





Material	RTI Value
Conventional potting	<95
Chint Xinhui housing	110<

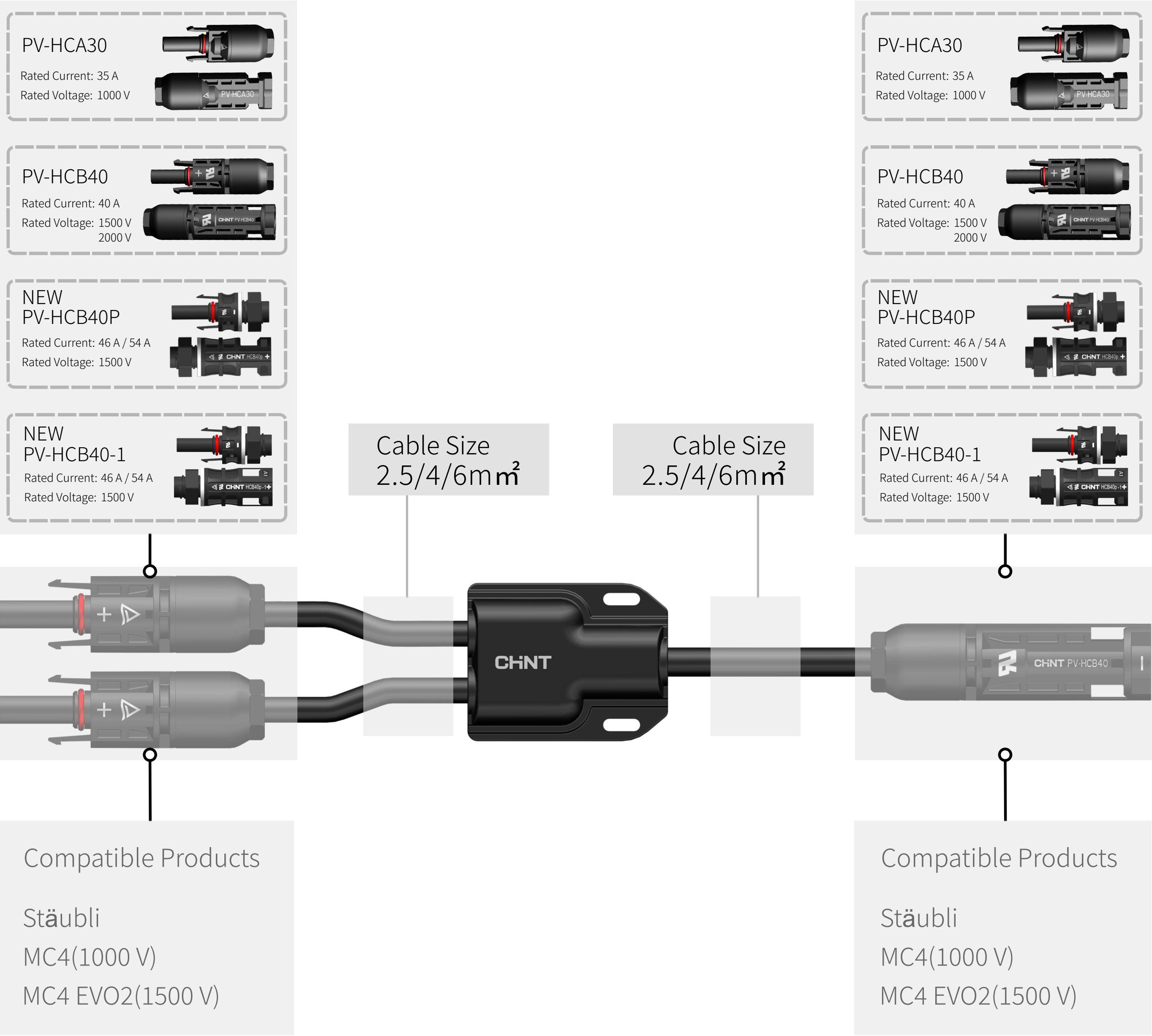




RTI
(Relative Temperature Index)

Conventional potting vs. Chint Xinhui housing

Product Selection



Note:
This product is compatible with 2.5/4/6 mm² outer diameter cables. Other sizes can be customized.



Product Information Statement

The product functionalities, technical parameters, operating instructions, and illustrative descriptions provided in this manual are compiled based on the latest knowledge available during the product development phase. In line with our ongoing product optimization and technological innovation strategies, the Company reserves the right to modify and improve product designs, software algorithms, and service content without prior notice.

The test data, performance metrics, and application cases mentioned in this manual reflect interim results obtained under specific testing environments. Actual outcomes may vary depending on usage scenarios, and such information shall not constitute legally binding quality commitments.

Users are advised that iterative updates to product functionalities may result in temporal discrepancies between the manual content and the latest product specifications. It is recommended to regularly visit the official website (<http://www.chintxhvpv.com>) to access the most up-to-date technical documentation.

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