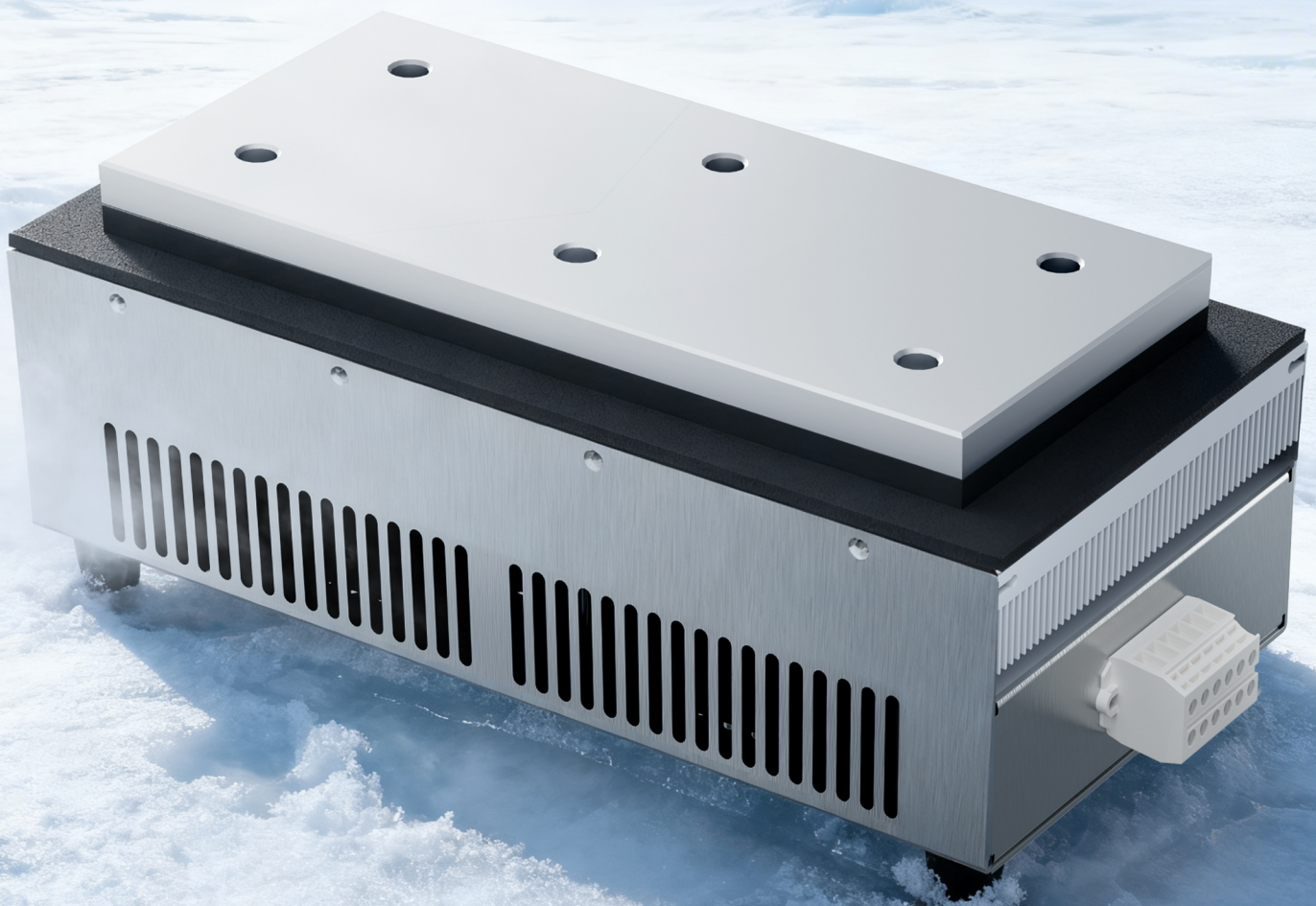


Peltier Thermoelectric Effect Refrigerator

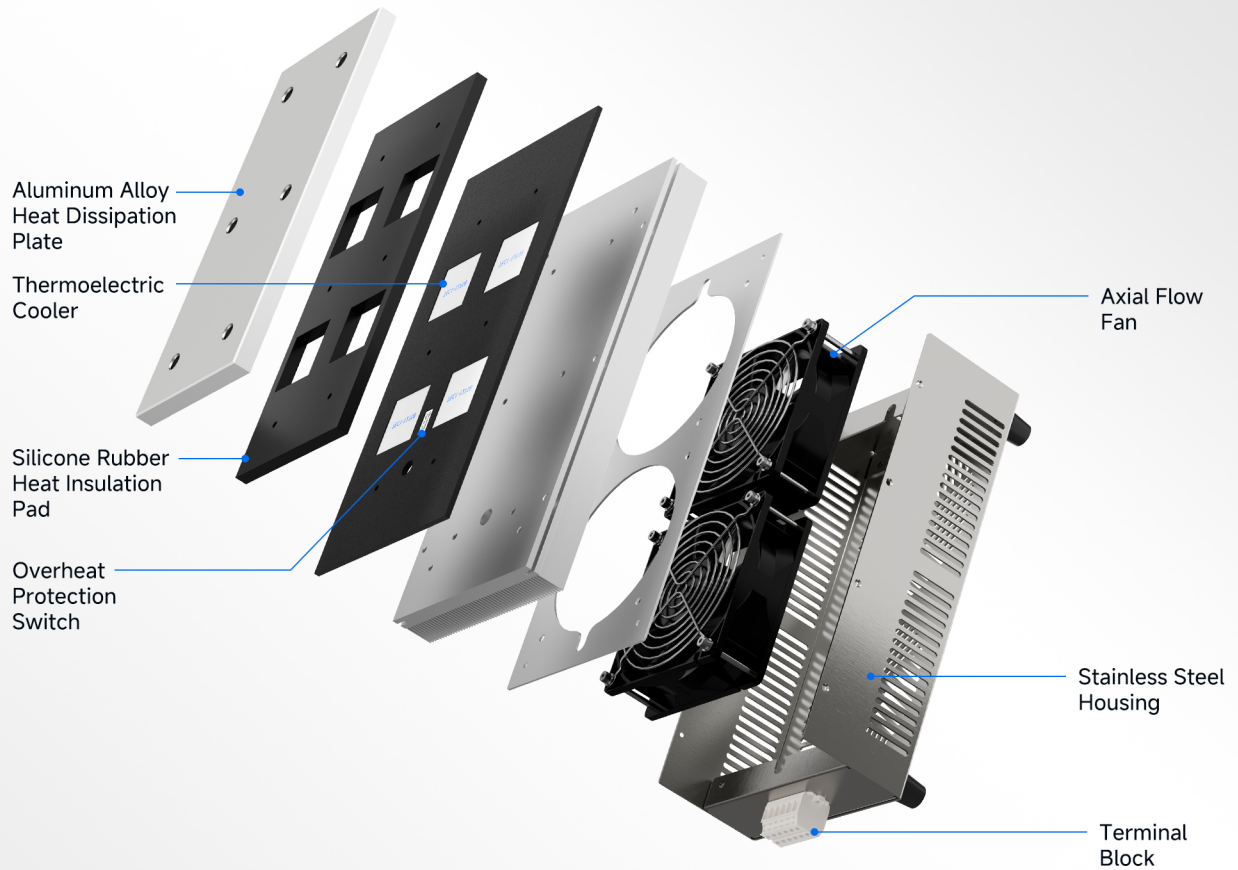
Semiconductor Cold Plate Module

Speed Cooling Platform | Low noise | Eco-friendly



Cools quickly

Developed based on the Peltier effect, it provides a dedicated cooling solution.



TEC Semiconductor

Rapid Cooling and Stable.



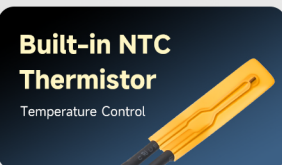
Axial Fan

High Rotational Speed
High Airflow
Low Noise



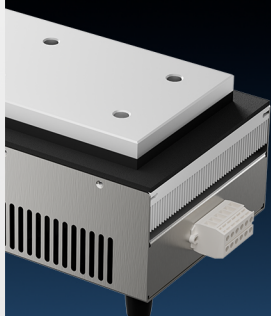
Built-in NTC Thermistor

Temperature Control



SUS304 Stainless Steel Body

The metal material is solid, and the structural strength is doubled.

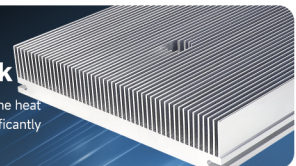


Scratch-resistant



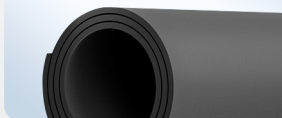
High-Multiple Gear Aluminum Alloy Heat Sink

CNC Precision Machining Surface Anodization. The heat dissipation efficiency and service life are significantly improved.



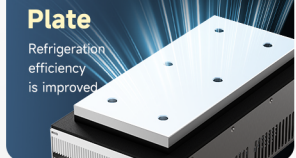
Thickened Heat Insulation Pad

Buffer Protection



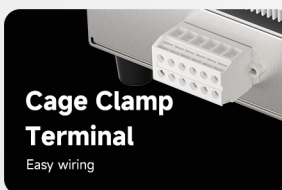
High Thermal Conductivity Aluminum Plate

Refrigeration efficiency is improved.



Cage Clamp Terminal

Easy wiring



Overheat Protection

Built-in Snap Action Thermal Protection Switch



Dry > Water Droplet > Frosting

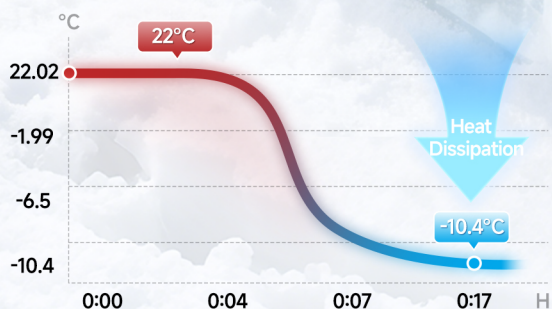
Power on for 10 min

Before and After Changes



Cooling Effect Exceeds Expectations

The test data applies to specifications of 106W and above;
75W spec: lower temp ref by -5°C (Recommended).



Rapid Cooling

The aluminum plate with high thermal conductivity effectively enhances the refrigeration efficiency.



Three Refrigeration Schemes

The generated cooling capacity and heat are transferred to the surrounding environment through the cold-side radiator & fan and the hot-side radiator & fan respectively. The cold-side radiator and cold-side fan form an internal circulation system to cool the enclosed space; the hot-side radiator and hot-side fan form an external circulation system, which is used to discharge heat to the external environment. Replace it directly with: "The generated heat is transferred to the surrounding environment through the hot-side radiator and fan. The generated cooling capacity is directly transferred to the cold plate, causing the cold plate to cool down rapidly."

DA Direct to Air

Cold-end precision Al plate close fit: direct heat transfer for fast cooling



LA Liquid to Air

Through the circulating liquid system, flows through the cold-end heat sink (precision-machined aluminum plate). Cool the liquid down.



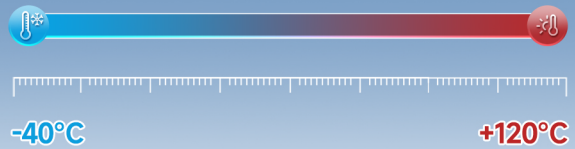
AA Air-to-Air

Through the cold-end heat sink and fan, circulate cold air in a confined space to achieve cooling.



Intelligent Temperature Controller

Recommended for use with a temperature controller



Automatic Switching
Refrigeration, Heating, Start/Stop

Temperature Control
-40°C ~ +120°C, Precision 0.1°C

Two Mounting Options
External independent unit, customizable for cooler surface mounting

Fault Alarm
Guard Equipment Safety

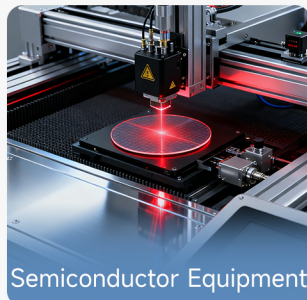
Fan Delay Shut-Down
Prevent Condensation Caused by Temperature Difference

RS485 Communication
Data Acquisition and Remote Control

Cooling Scenarios



High-power Laser



Semiconductor Equipment



Medical Equipment

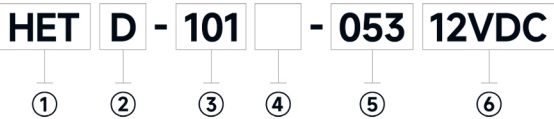


Metal Welding

Specification

Model Description

The design of product models and ordering codes is intended to cover all possible specifications of this series of products, and they cannot be combined arbitrarily.If you have any questions during the first selection, please contact the technical service engineers for confirmation.If the technical specifications in the product library cannot meet your needs, customization is available! Items marked with * are customized products.



① Product Name

Code	Interpretation
HET	Peltier effect Semiconductor Cooler

② Type

Code	Interpretation
A	(Air to Air) Thermoelectric Air Conditioners
L	*(Liquid to Air) Liquid Chillers
D	*(Direct to Air) Cold Plates
U	*(Direct to Liquid) Ultra - low temperature cold plates
X	*(Liquid to Liquid) Liquid Chillers

③ Specifications of Hot-Side Heat Sink

Code	Interpretation
101	W100×L150mm
102	W100×L215mm
151	W150×L200mm
152	W150×L300mm
153	W150×L400mm
154	W300×L300mm
156	W300×L400mm

④ Installation Method

Code	Interpretation
T	Wall-penetrating Installation (Basic Type)
TS	Wall-penetrating Installation (Enhanced, Hot Side Protection)
TP	Wall-penetrating Installation (Integrated Protection Type)
F	*Surface-exposed External Installation
H	*Flush-mount Recessed Installation
None	Flat Static Placement (Tabletop Type)

⑤ Maximum Cooling Capacity(W)

053	106	212	424
062	124	248	496
075	150	300	600
080	160	320	640
088	176	352	704
097	194	388	776
106	212	424	848
133	266	532	1064

⑥ Rated Voltage

12VDC	24VDC	48VDC	100~240VAC
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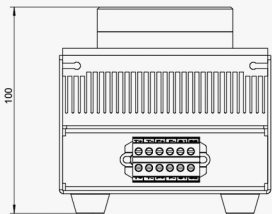
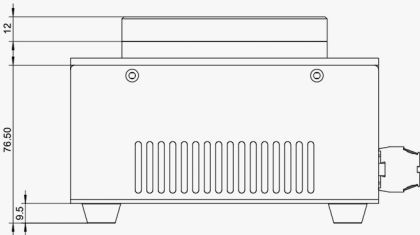
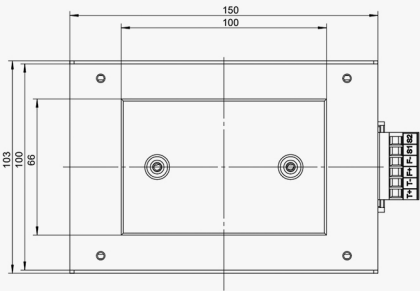
HETD-101-075 12VDC



Basic Parameters

■ Cooling Method :	Direct to Air	■ Temperature Control Device :	Optional
■ Cooling Capacity :	Max.75W	■ Weight :	/
■ Power Consumption :	Max.102W	■ Noise :	39dB(A)
■ Rated Voltage :	DC12V	■ Operating Temperature :	-20~70°C
■ Cooling Current :	Starting 8.5A Stable 7A	■ Protection Level :	IP65

Overall Dimensions



*Unit: mm, Dimension data may have deviations; please refer to the actual product for accuracy.

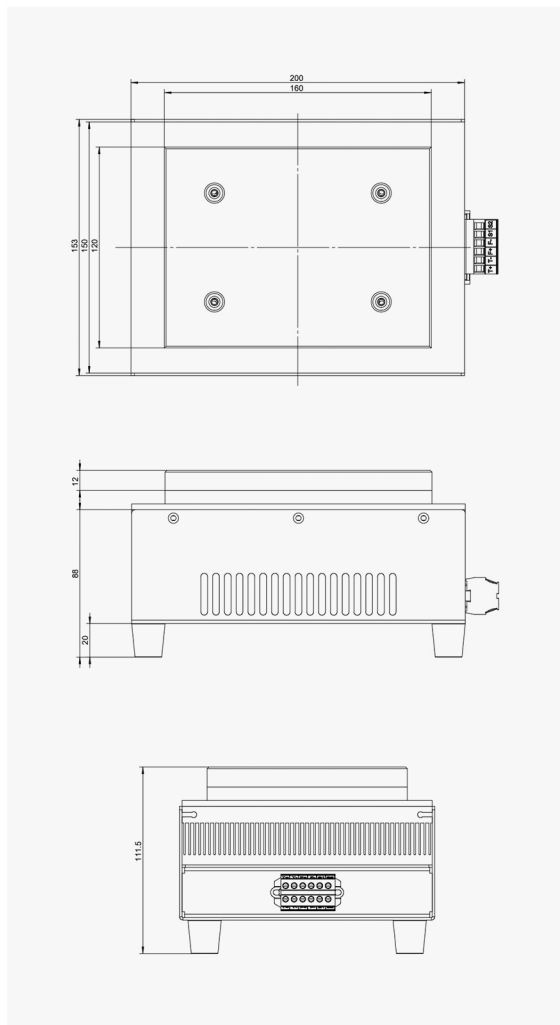
HETD-151-106 24VDC



Basic Parameters

■ Cooling Method : Direct to Air	■ Temperature Control Device : Optional
■ Cooling Capacity : Max.106W	■ Weight : /
■ Power Consumption : Max.144W	■ Noise : 43dB(A)
■ Rated Voltage : DC24V	■ Operating Temperature : -20~70°C
■ Cooling Current : Starting 6A Stable 4.8A	■ Protection Level : IP65

Overall Dimensions



*Unit: mm, Dimension data may have deviations; please refer to the actual product for accuracy.

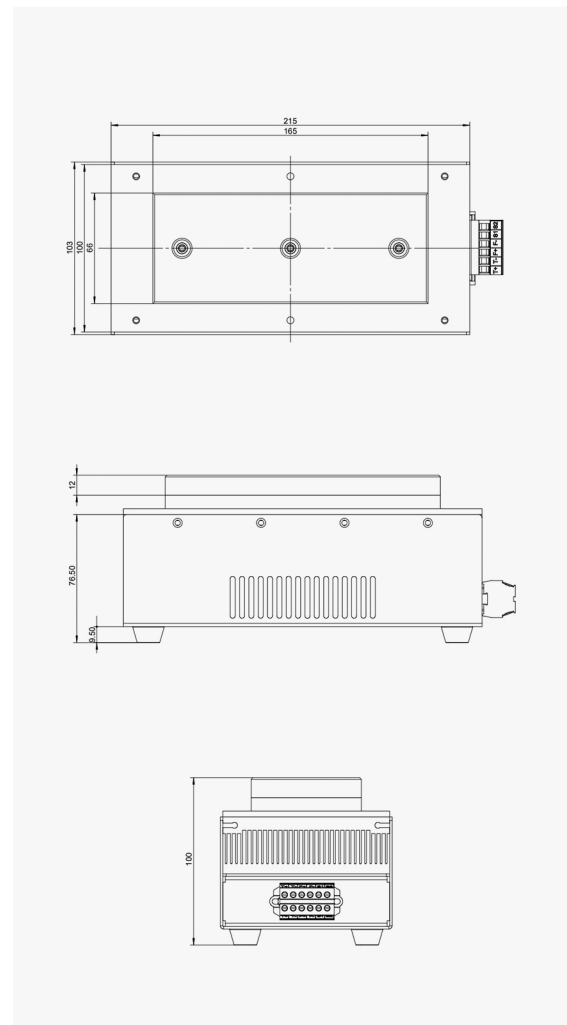
HETD-102-150 24VDC



Basic Parameters

■ Cooling Method : Direct to Air	■ Temperature Control Device : Optional
■ Cooling Capacity : Max.150W	■ Weight : /
■ Power Consumption : Max.204W	■ Noise : 39dB(A)
■ Rated Voltage : DC24V	■ Operating Temperature : -20~70°C
■ Cooling Current : Starting 8.5A Stable 7A	■ Protection Level : IP65

Overall Dimensions



*Unit: mm, Dimension data may have deviations; please refer to the actual product for accuracy.

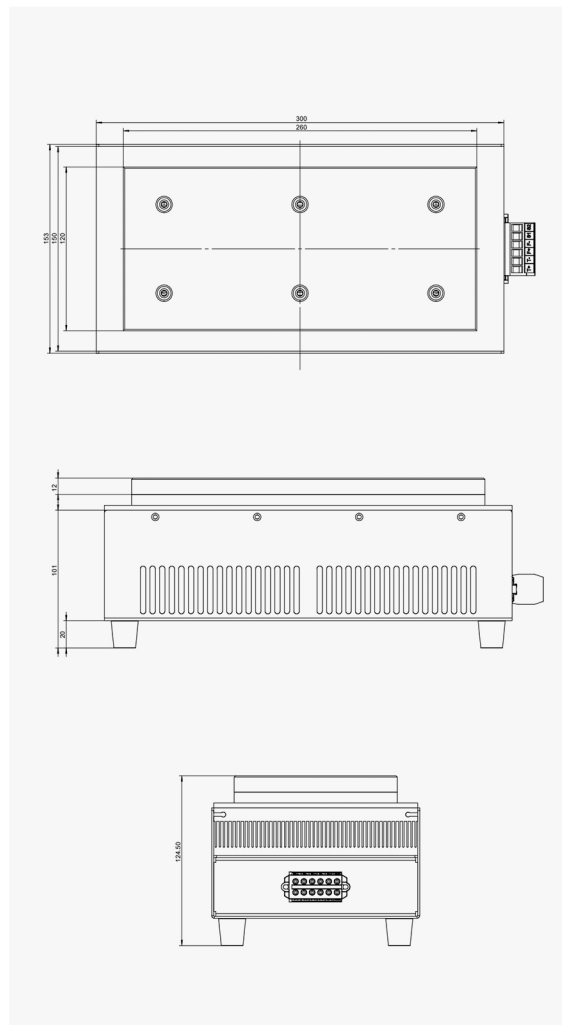
HETD-152-212 48VDC



Basic Parameters

■ Cooling Method : Direct to Air	■ Temperature Control Device : Optional
■ Cooling Capacity : Max.212W	■ Weight : /
■ Power Consumption : Max.288W	■ Noise : 50dB(A)
■ Rated Voltage : DC48V	■ Operating Temperature : -20~70°C
■ Cooling Current : Starting 6A Stable 4.8A	■ Protection Level : IP65

Overall Dimensions



*Unit: mm, Dimension data may have deviations; please refer to the actual product for accuracy.

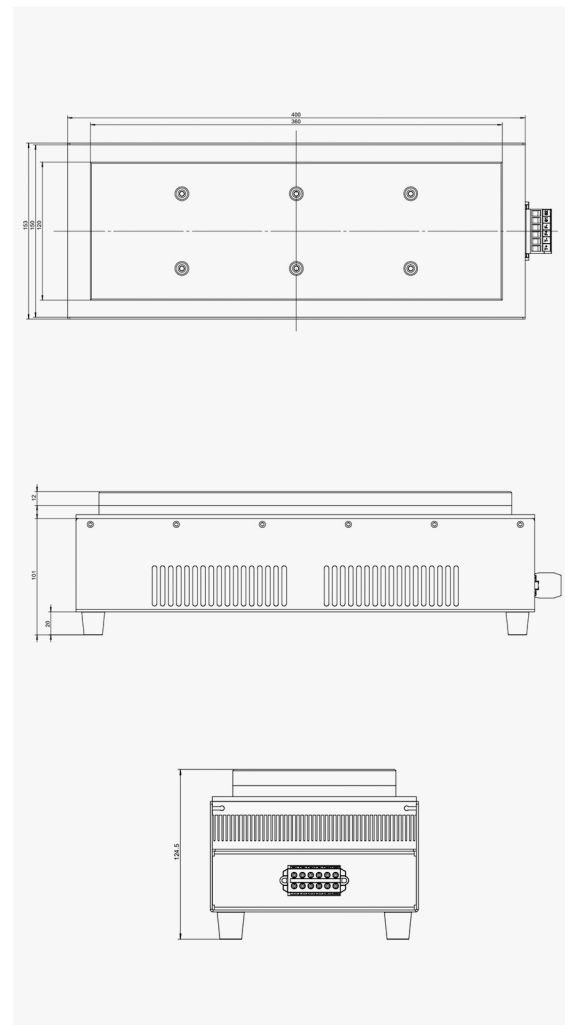
HETD-153-300 48VDC



Basic Parameters

■ Cooling Method : Direct to Air	■ Temperature Control Device : Optional
■ Cooling Capacity : Max.300W	■ Weight : /
■ Power Consumption : Max.408W	■ Noise : 50dB(A)
■ Rated Voltage : DC48V	■ Operating Temperature : -20~70°C
■ Cooling Current : Starting 8.5A Stable 7A	■ Protection Level : IP65

Overall Dimensions



*Unit: mm, Dimension data may have deviations; please refer to the actual product for accuracy.

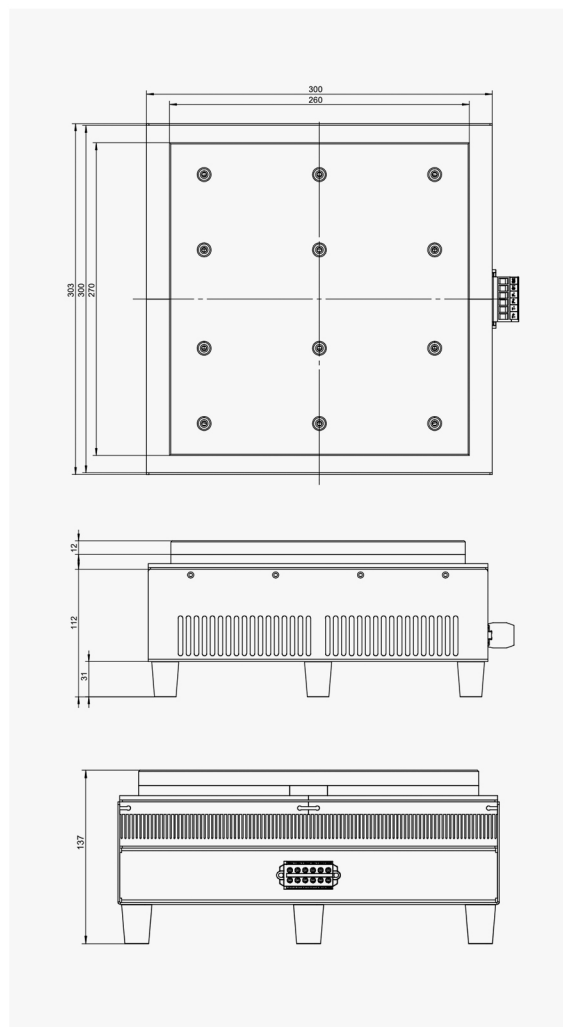
HETD-154-424 48VDC



Basic Parameters

■ Cooling Method : Direct to Air	■ Temperature Control Device : Optional
■ Cooling Capacity : Max.424W	■ Weight : /
■ Power Consumption : Max.576W	■ Noise : 53dB(A)
■ Rated Voltage : DC48V	■ Operating Temperature : -20~70°C
■ Cooling Current : Starting 12A Stable 9.6A	■ Protection Level : IP65

Overall Dimensions



*Unit: mm, Dimension data may have deviations; please refer to the actual product for accuracy.

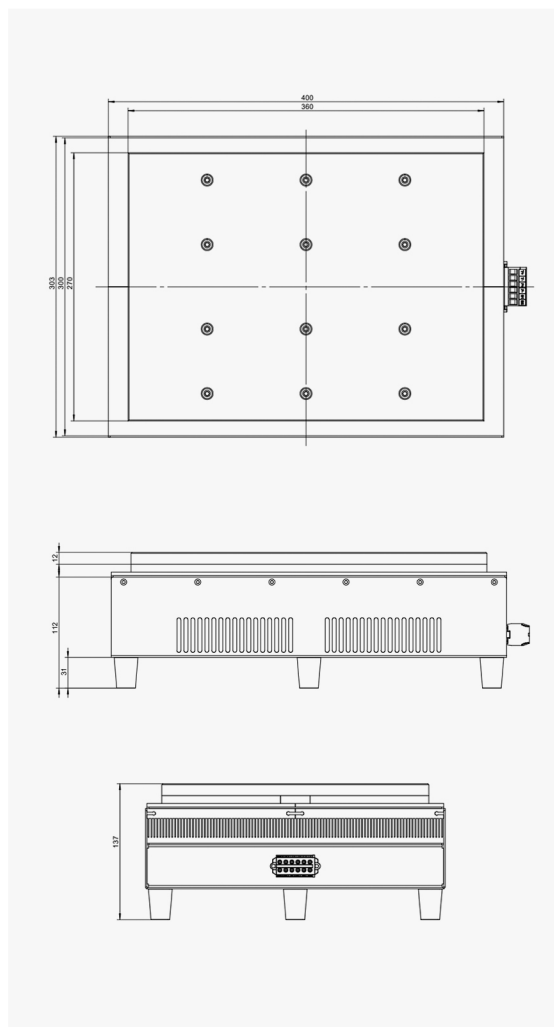
HETD-156-600 48VDC



Basic Parameters

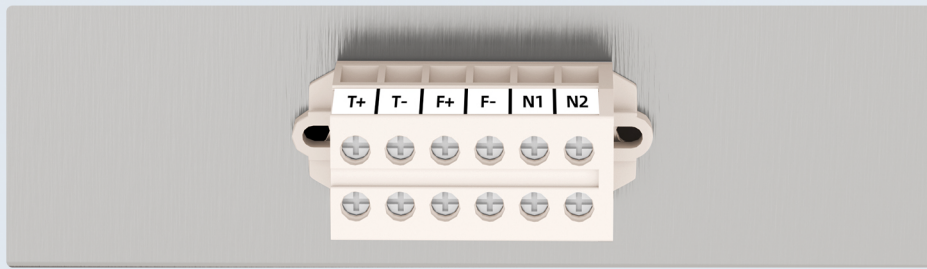
■ Cooling Method : Direct to Air	■ Temperature Control Device : Optional
■ Cooling Capacity : Max.600W	■ Weight : /
■ Power Consumption : Max.816W	■ Noise : 53dB(A)
■ Rated Voltage : DC48V	■ Operating Temperature : -20~70°C
■ Cooling Current : Starting 17A Stable 14A	■ Protection Level : IP65

Overall Dimensions



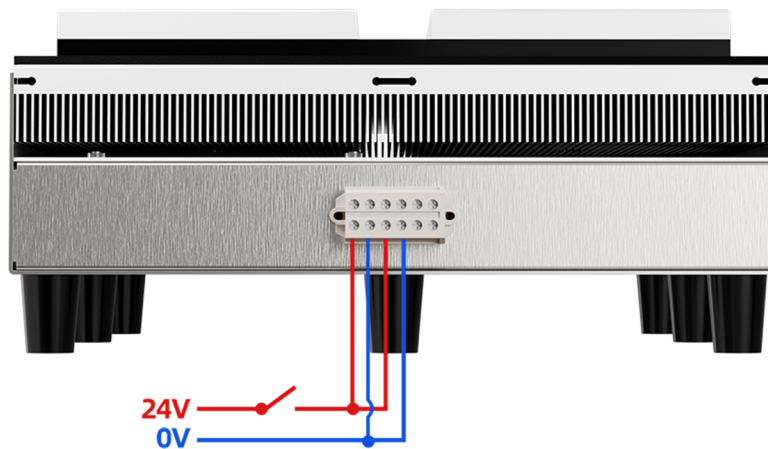
*Unit: mm, Dimension data may have deviations; please refer to the actual product for accuracy.

Terminal Description and Wiring

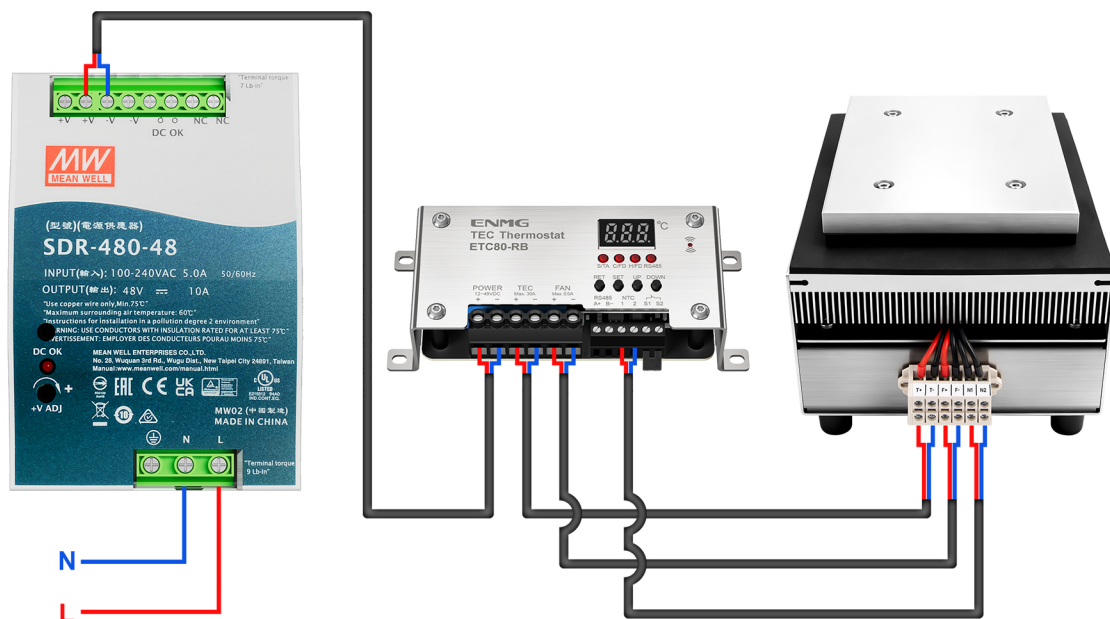


- T+: Power Supply Terminal +
- T-: Power Supply Terminal -
- F+: Fan Power Supply Terminal +
- F-: Fan Power Supply Terminal -
- N1, N2: NTC Thermistor Signal Output Terminal
1. Connect to the thermostat to realize temperature detection of the cooling plate
2. Thermistor B-Value: 3950K , Resistance Value: 10kΩ

Refrigerator Wiring Diagram



Refrigerator+Thermostat+Power Supply Wiring Diagram





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公司地址 Address：浙江省乐清市柳市镇柳江路3788号

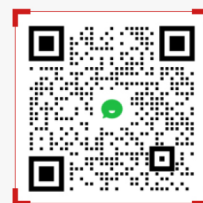
联系方式 Telephones：400-996-2708

官方网站 Website：www.enjue.cc

迪威模型 3D Model：www.3dwhere.com/user/135269



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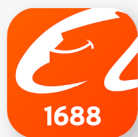
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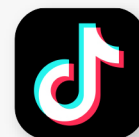
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