

TEA

Air-to-Air Module

PRODUCT MANUAL

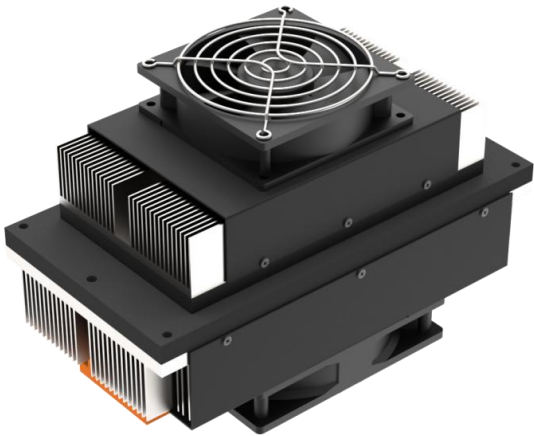
Striving for the Bright Future of Precision Optoelectronic Measurement.

01 Product Functions

The module meets the cooling requirements of most applications in medical, analytical, industrial, and telecommunications fields.

Typical Applications

- Analytical instrumentation
- Photonics laser systems
- Food and beverage
- Medical diagnostics
- Industrial instrumentation



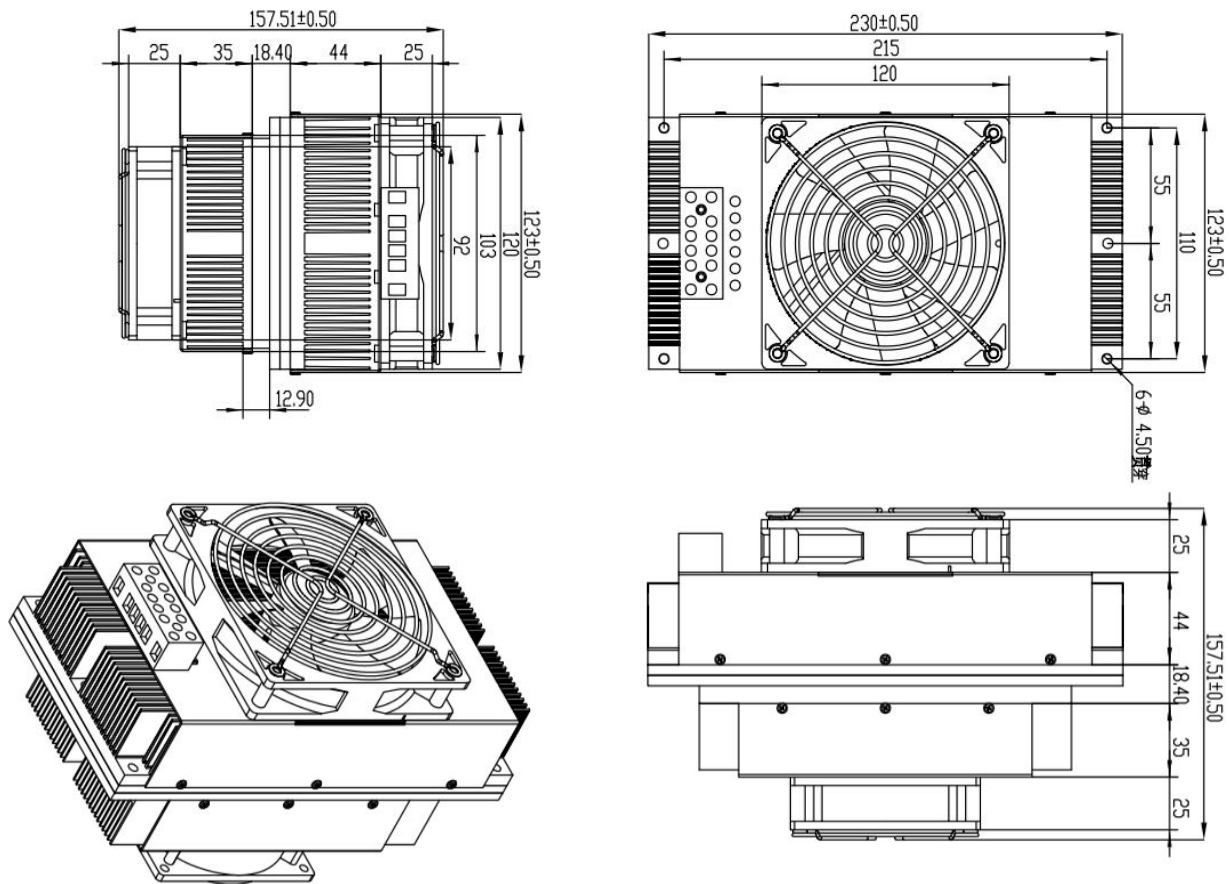
02 Product Features

- Compact design
- Reliable solid-state operation
- Precise temperature control
- DC operation
- RoHS compliant

03 Specifications

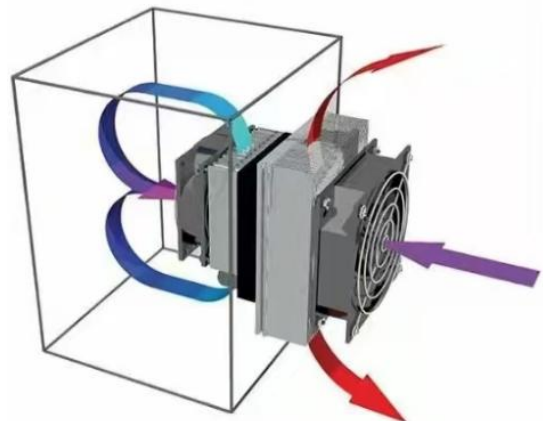
Parameter	TEA100
Cooling Power Qcmax	100W
Running Current	6.5A
Startup Current	7.8A
Nominal Voltage	24V
Max Voltage	31V
Power Input	160W
Operating Temperature	-18~80℃
Weight	2.5kg
MTBF	10,000 fans – hrs
Performance Tolerance	±5%

04 Outline Dimensions



05 Installation Instructions

1. The cold side shall be installed inside the cabinet to be cooled, and the hot side shall be mounted outside the cabinet.
2. The recommended cabinet cut-out dimensions are 105*182 mm with a maximum wall thickness of ≤ 15 mm.
3. There are 6 through-holes of $\phi 4.5$ mm for securing the module using M4 screws. Two mounting options are available: Secure using the 4 diagonal holes / Secure using the 2 center holes
4. The module can be mounted either vertically or horizontally, as long as the airflow to and from the cooling fan is not obstructed (see the illustration on the right).
5. Avoid subjecting the module to external impact or mechanical shock.



Maintenance: Clean the fans and heat-sink fins regularly to prevent performance degradation or failure.

Recommendations: Depending on the actual operating environment, the surface of the product can be anodised, and fans with different protection ratings or service lives can be selected.

Version Change Log

Version	Change description	Change date	Reviewed by
1.0.0	Initial version	2026/8/26	WYR

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Innovation Creates Value;
Sharing Brings People Together;**

**We look forward to win-win
cooperation with you!**