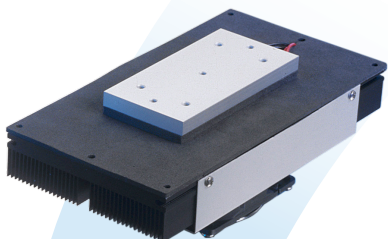


# DA PowerCool Series, DA-115-24-02

## Thermoelectric Assembly



### POWERCOOL SERIES DIRECT-TO-AIR THERMOELECTRIC ASSEMBLY

The DA PowerCool Series is a Direct-to-Air thermoelectric assembly (TEA) that uses impingement flow to transfer heat. It offers dependable, compact performance by cooling objects via conduction. Heat is absorbed through a cold plate and dissipated through a high density heat exchanger equipped with an air ducted shroud and brand name fan. The thermoelectric modules are custom designed to achieve a high coefficient of performance (COP) to minimize power consumption. This product series is available in a wide range of cooling capacities and voltages. Custom configurations and moisture protection options are available, however, MOQ applies.

#### FEATURES

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

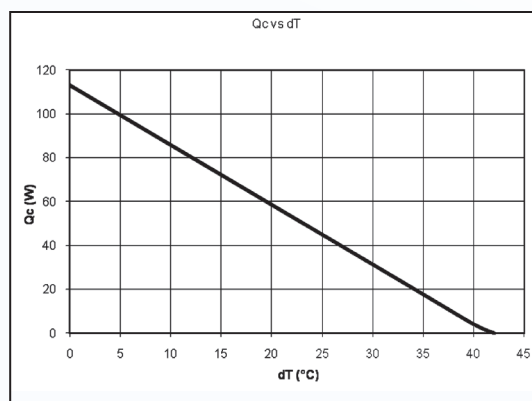
#### APPLICATIONS

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

#### Specifications

Cooling Power Q <sub>cmax</sub> (W)	113
Running Current (A)	5.8
Startup Current (A)	6.7
Nominal Voltage (V)	24
Max Voltage (V)	30
Power Input (W)	139
Operating Temperature (°C)	-10 to 47
Weight (kg)	2.9
MTBF (fans – hrs)	50,000
Performance Tolerance	±10%

#### PERFORMANCE CURVE



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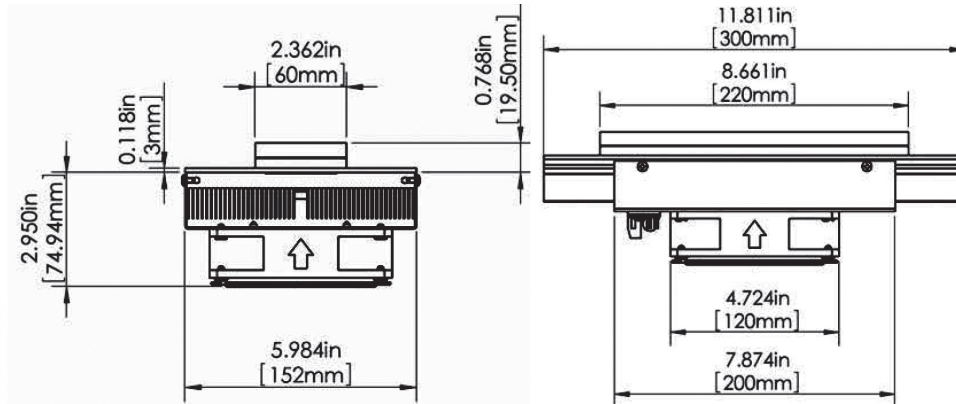
CLV-customerservice@lairdtech.com

[www.lairdtech.com/thermal](http://www.lairdtech.com/thermal)

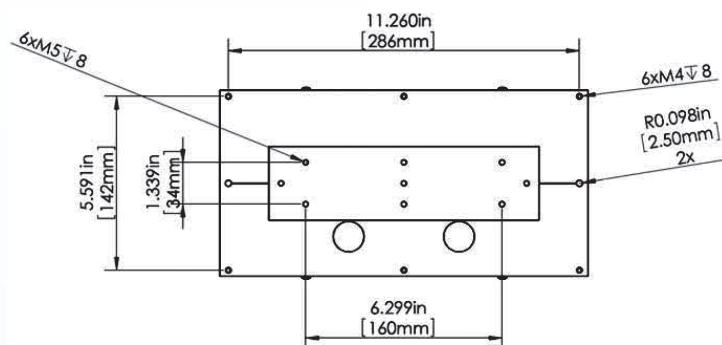
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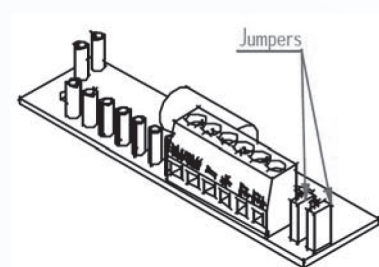
### ISOMETRIC DRAWINGS



### MOUNTING HOLE LOCATION



### WIRING SCHEMATIC



#### Electrical connections:

"+" : +TEM  
 "-" : -TEM  
 "F+" : +Fan(s)  
 "F-" : - Fan(s)

To use single supply:  
 Lift the jumpers and rotate 90° to short-cut  
 the pin pairs.  
 Connect the unit to "+" & "-".

**Warning:** Single supply not applicable in  
 heating mode or with PWM-regulation.

### NOTES

For indoor use only  
 Thermally Conductive Grease enclosed  
 Overheating Thermostat: 75°C ± 5°C on hot side heat sink surface

THR-DS-DA-115-24-02 0510

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Components Supply Platform

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