

DA PowerCool Series, DA-045-12-02 Thermoelectric Assembly

Innovative **Technology** for a **Connected** World



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 thru 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 **V**ROHS

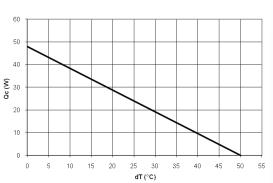
- Compact design
- Precise temperature control
- Reliable solid-state operation
- DC operation
- RoHS compliant

APPLICATIONS

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

Specifications	
Cooling Power Qcmax (W)	48
Running Current (A)	6.1
Startup Current (A)	7.0
Nominal Voltage (V)	12
Max Voltage (V)	15
Power Input (W)	73
Operating Temperature (°C)	-10 to 46
Weight (kg)	1.2
MTBF (fans – hrs)	50,000
Performance Tolerance	±10%

PERFORMANCE CURVE



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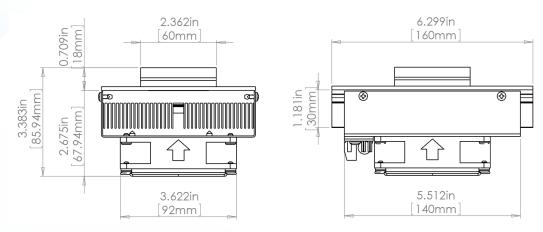
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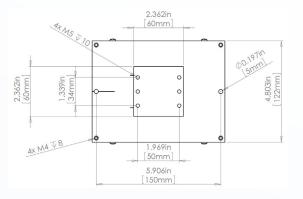
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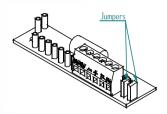
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ISOMETRIC DRAWINGS



MOUNTING HOLE LOCATION





NOTES

For indoor use only. Thermally Conductive Grease enclosed. Overheating Thermostat: $75^{\circ}C \pm 5^{\circ}C$ on hot side heat sink surface

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.

THR-DS-DA-045-12-02 0810

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