

DA PowerCool Series DA-160-24-02

Thermoelectric Assembly



Americas: +1.919.597.7300 Europe: +46.31.420530 Asia: +86.755.2714.1166 ets.sales@lairdtech.com www.lairdtech.com 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

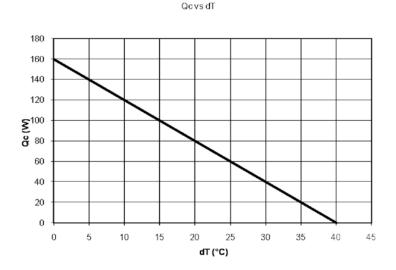
- Compact design
- Precise temperature control
- Reliable solid-state operation
- DC operation
- RoHS compliant

APPLICATIONS

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

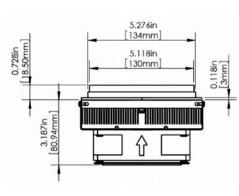
SPECIFICATIONS		
Cooling Power Qcmax (W)	160	
Running Current (A)	7.4	
Startup Current (A)	9.0	
Nominal Voltage (V)	24	
Max Voltage (V)	30	
Power Input (W)	178	
Operating Temperature (°C)	-10 to 46	
Weight (kg)	3.5	
MTBF (fans – hrs)	50,000	
Performance Tolerance	±10%	

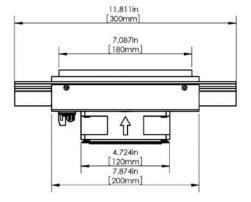
PERFORMANCE CURVE



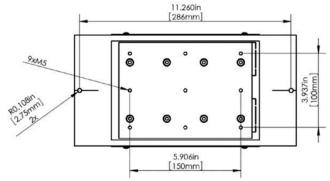


ISOMETRIC DRAWINGS

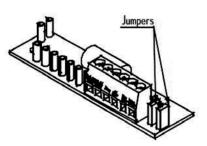




MOUNTING HOLE LOCATION



WIRING SCHEMATIC



Electrica	al connections:
"+": "-": "F+": "F-":	+TEM – TEM +Fan(s) – Fan(s)
the pin pairs	pers and rotate 90° to short-cut
	ingle supply not applicable in de 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

LAIRD-ETS-DA-160-24-02-DATA-SHEET-100616

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