



Thermoelectric assembly Air-to Air

TA-AA-200-48-N+1 COPMAX



Features

- Low current consumption.
- low noise pressure.
- Compact design.
- Small weight.
- Precise temperature control.
- Cooling and heating in the same unit
- Ease of installation and connection.
- DC operation of 48V or 54V voltage.
- Various positioning in space.
- Environmentally friendly solid state heat exchange operation with no CFC refrigerants.

Applications

- Photonics laser systems.
- Outdoor telecom cabinets
- Thermostat of biological assays.
- Medical diagnostics.
- Battery cabinets
- Industrial measuring instrument.
- Thermostabilization of electronic cabinets
- Analytical devices.
- Outdoor kiosks and displays
- Food and beverage cooling
- Others.



Performance Q[ΔT]

Type	TA-AA-200-24-N+1 COPMAX
Voltage (nominal /maximal)	48/54 VDC
Amperage ±10% (nominal/starting)	4.3A/6.0A (at 48VDC)
Max ripple	5%
Cooling capacity at ΔT = 0°C and nominal voltage . ¹	200W
Heating ²	210W
Cooling capacity in Free cooling mode (Eco mode)	5W/C°
Power consumption in mode Free cooling (Eco mode)	11W
Operating temperature of the heatsinks on the inner and outer side, not more than ³	85°C
Temperature range (external /internal)	-40°C to +60°C/-20°C to +60°C
Fans lifetime (at temperatures not higher than +40°C) and nominal voltage	≥60,000 hours
Sound pressure level (distance 1m.)	42dB(A)
Mode of operation	long-term
Protection of heatsinks	Anodizing film thickness of 10-20 microns
Degree of protection of fans out side ⁴	IP55
Overheat protection	by demand the customer (Additional option)
Type of connector	Dust and waterproof 6- pin female shoes
Weight ±3%	6.5kg

1- Cooling capacity is rated at ambient temperature +35°C.

Heating capacity is rated at external temperature of -40°C, nominal voltage, and ΔT = -45°C.

3- Possibility of increase to 150°C - Additional option.

4- IP68 - Additional option.

NOTE! A method of transferring heat - forced convection.

Not recommended to reduce airflow external and internal side.



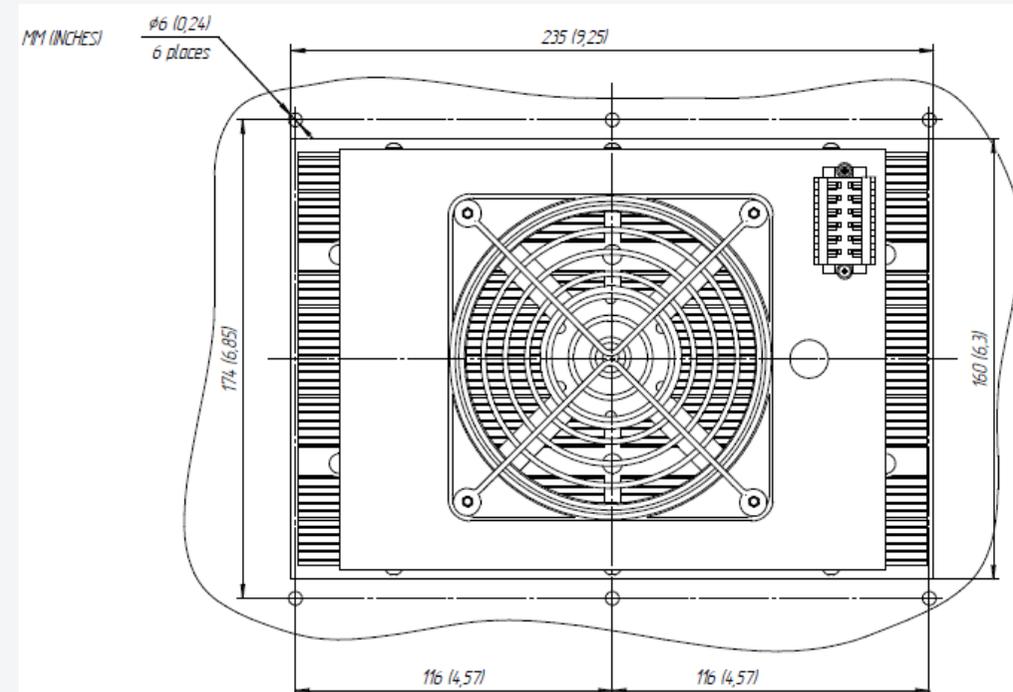
ΔT

$\Delta T^{\circ}C = T_{\text{ambient}} - T_{\text{internal}}$

Q - cooling capacity, W.

for ambient temperature +35 °C and rated voltage

MOUNTING SCHEME



Contact us for more information
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Dimensions of the assembly

MM (INCHES)

