

## PELTIER TEC 200 FOR ELECTRONICS



Dantherm Peltier TEC 200 is a compact cooling system designed to remove excess heat from electronic equipment such as batteries in small enclosures and thereby prolonging product lifetime in the enclosure. It is designed for installation in industry applications with a demand for long lifetime and minimum service.

The unit utilizes the thermoelectric technology and is designed for 48V DC supply. It meets IP55 and is therefore reliable for installation in both indoor and outdoor enclosures.

Dantherm Peltier TEC is widely used in Battery compartment cooling in shelters or cabinets, small enclosure cooling, and indoor and outdoor cabinets.

## FEATURES AND BENEFITS

### Environment

- Compact, solid and oxidation resistant construction – outdoor casing manufactured from thin sheet anodized aluminum: 5052H32
- External fan with humidity protection and weather protected – ensures long lifetime of the system.
- The only moving parts are the fans, which are high quality fans that require minimum maintenance and ensure long lifetime of the system.

### Heat Management

- Compact thermo electric cooling utilizing Peltier elements.
- Two circuits (internal and external) – utilizing electric transfer of heat from inside to outside

### Installation

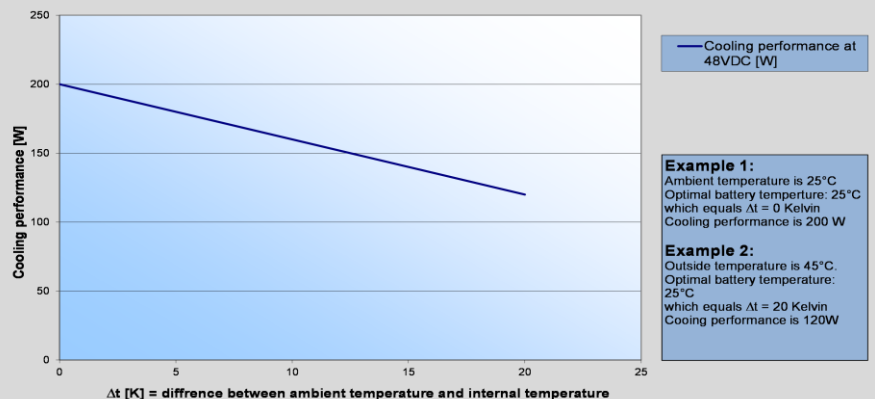
- Plug and play connection cables to ensure smooth installation – 3 pcs AMP/Tyco 50-84-1045 are needed.
- Thorough function, cooling performance and voltage testing at production facility.

### Cooling performance

- As a function of temperature difference between internal return air temperature and ambient air.

#### Dantherm Peltier TEC 200 - Cooling Performance

- as a function of temperature difference between internal return air temperature and ambient air

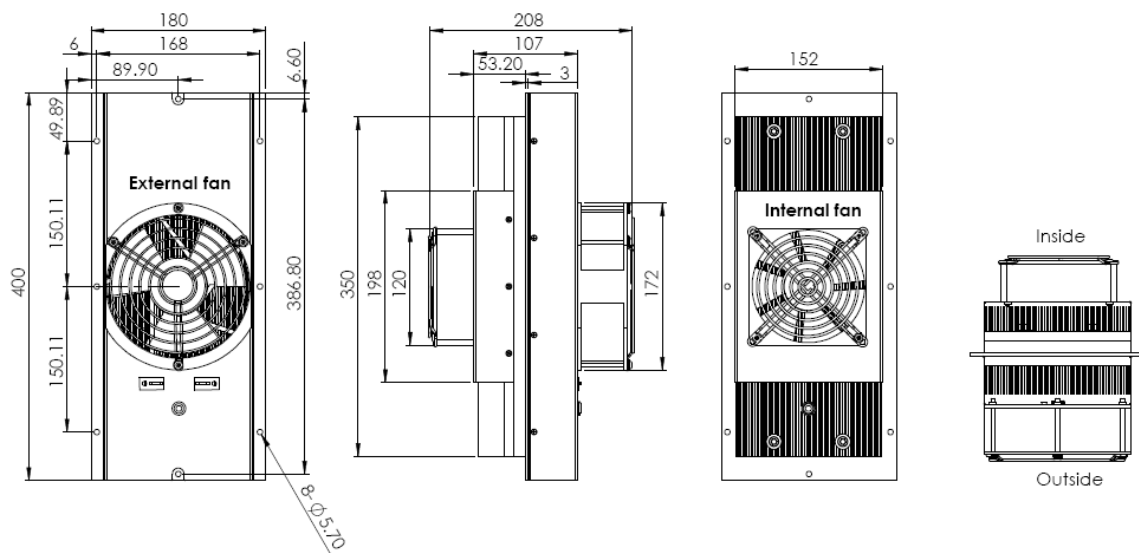


## TECHNICAL DATA

### PELTIER TEC 200

<b>Dimensions, weight &amp; mounting</b>		
Unit dimensions (height×width×depth)	mm	400 x 180 x 208
Single packing dimensions (height×width×depth) (carton)	mm	580 x 380 x 285
Multi packing dimensions (height x width x depth) (12 units in 1 pallet)	mm	1200 x 800 x 1065
Net weight	kg	8
Single package weight incl. unit (multi package, ask Dantherm)	Kg	10
Mounting method		Through door/wall of cabinet
<b>Environmental protection &amp; performance</b>		
Operational temperature range	°C	-20 ~ +50
Noise level, outside 2m distance at 35°C internal and 35°C ambient	dB(A)	62
Protection from dust, water and wind driven rain according to EN 60529	IP Class 2	55
CE, RoHS, UL, c UL and WEEE compliant		Yes
<b>Cooling capacity &amp; operational data</b>		
Cooling capacity at 32°C internal and 32°C ambient	W	200
Internal airflow	m³/h	160
External airflow	m³/h	180
Power consumption at 32°C internal and 32°C ambient	W	450
<b>Power, frequency &amp; range</b>		
Input voltage range	V DC	36 ~58
<b>Electrical connection</b>		
Fan and TEC cable terminal (female) mounted on unit	Molex	02-08-1001
Fan and TEC cable connector (female) needed for installation (not supplied)	Molex	50-84-2042

## DIMENSIONS



Subject to change without notice