

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 thereby prolonging product service life in the enclosure. It is designed for installation in industry applications with a demand for long service life and minimum service.

The unit utilizes the thermoelectric technology and is designed for 48V DC supply. It meets IP55 regulations 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/outdoor cabinets.

FEATURES AND BENEFITS

Environment

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

Heat Management

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

Installation

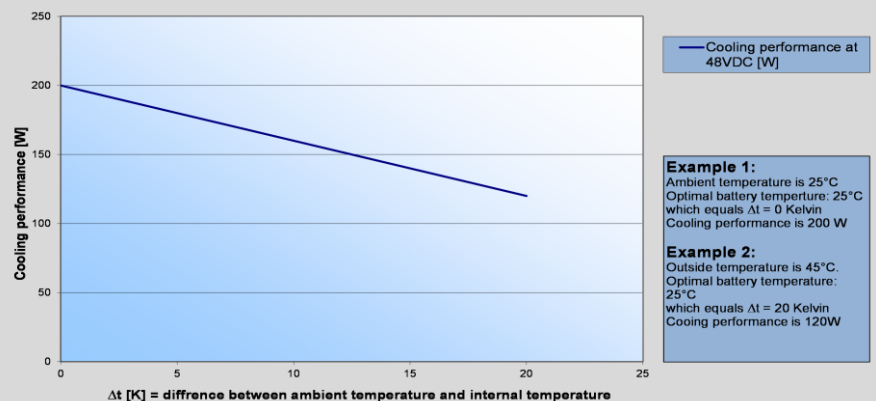
- Plug and play connection cables to ensure smooth installation – 3 pcs AMP/Tyco 50-84-1045 are needed.
- Thorough function, cooling performance and voltage testing from factory.

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
DANTHERM PELTIER TEC 200

Dimensions, weight & mounting		
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
Environmental protection & performance		
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 compliant		Yes
Cooling capacity & operational data		
Cooling capacity at 32°C internal and 32°C ambient	W	200
Internal airflow	m ³ /h	160
External airflow	m ³ /h	180
Power consumption at 32°C internal and 32°C ambient	W	450
Power, frequency & range		
Input voltage range	V DC	36 ~58
Electrical connection		
Fan and TEC cable terminal (female) mounted on unit	Molex	02-08-1001
Fan and TEC cable connector (male) needed for installation (not supplied)	Molex	50-84-2042

DIMENSIONS

