THERMO KING

Thermo King Solar Panels

Harness the power of the sun

POWER MANAGEMENT SOLUTIONS FOR TRUCK AND TRAILER TRANSPORT REFRIGERATION UNITS



TRANE TECHNOLOGIES

Solar panels

Harness the power of the sun



BENEFITS

Ample Charging Current:
- Maintains battery charge, even in low light or winter conditions

Exceptional Efficiency:
- Outperforms competitors in charging capacity

Low-Profile Design:
- Fits in tight spaces for easy installation

Quick Installation:
- Simple, 60-minute setup with all components included

Durability:
- Resists extreme weather, trailer washing, and chemical cleaning

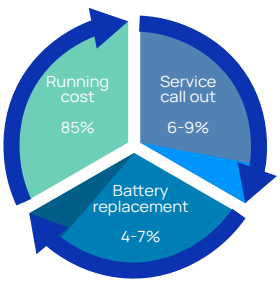
NEW MPPT CONTROLLER
Maximum Power Point Tracking Controller for Thermolite™ panels:
- Efficient battery charging, even at low voltage (6V)
- Increased output (10-20%) compared to PWM controllers

MORE UPTIME BY AVOIDING FLAT BATTERY CALLOUTS. LESS FUEL CONSUMPTION.

Thermo King solar panels provide sustainable power for truck and trailer refrigeration units, extending battery life, reducing fuel consumption, and lowering emissions.

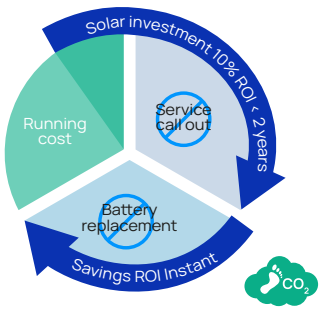
Tough, weatherproof panels capture solar energy, even in low light, to keep batteries charged. This reduces engine operation for battery charging, saving fuel and CO_2 emissions while promoting sustainability.

UNIT WITHOUT SOLAR PANEL



Overtime
EnergyOne® Platinum

UNIT WITH SOLAR PANEL



Fuel savings up to 23%*
*Please contact your local dealer for further information.

APPLICATIONS

Thermo King solar panels are particularly fit for these applications:

1 TO POWER YOUR REFRIGERATION UNIT (12V)

Stay connected. Extend your battery lifetime, save fuel and CO_2. Up to 110W.

2 TO POWER YOUR TRACTOR'S BATTERY - TRACTOR ROOF (24V)

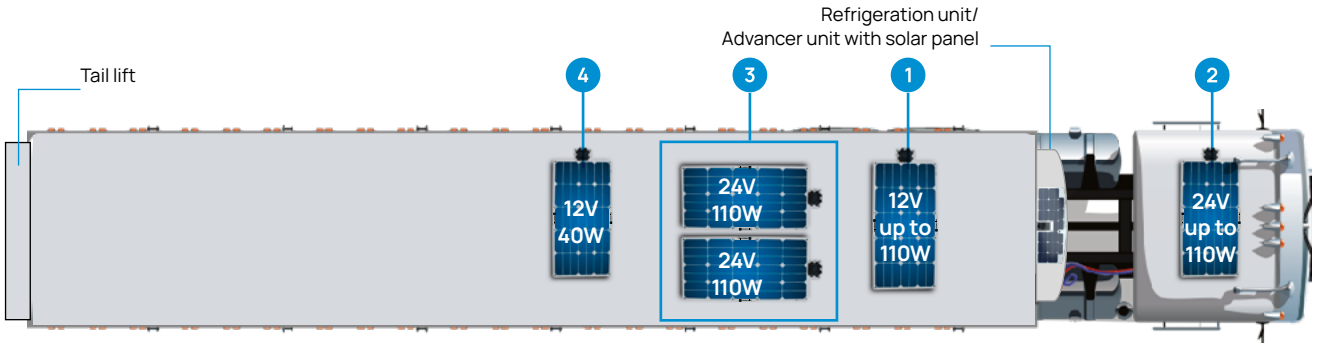
Extend your tractor's battery utilization and life and save on battery exchanges, breakdowns and fuel consumption. 80W(2 x 40W) to 220W (2 x 110W).

3 FOR TAIL LIFT (24V)

Keeps your tail lift running and your batteries charged. Up to 220W (2 x 110W).

4 AS AN EXTENSION OF YOUR ADVANCER SOLAR PANEL ON THE ROOF OR ON THE SIDE PANEL

- Additional 40W solar panel available to boost power to 90W.
- Compatible with existing setup: integrates seamlessly with your Thermo King solar panel and charge controller.
- Recommended for vehicles with Advancer units and solar panels positioned 5cm or more below the trailer roof.
- Increases fuel savings by reducing "null run" time in Cycle-Sentry.



CHOOSING THE PART THAT FITS YOUR NEEDS

INVESTING IN THE BEST

As a Thermo King owner, you have invested in the best. Your priorities include reliability, performance and sustainability at a competitive total cost of ownership.

THERMOLITE™ SOLAR PANELS

At Thermo King, every part goes through an exhaustive validation process covering material, design, manufacture, and accelerated life testing. It is only when that part meets the same high standards we apply to our manufacturing that we approve it for use as a replacement part, giving you a guarantee of performance.

Thermolite™ Solar Panels come with the new **Maximum Power Point Tracking (MPPT) controller as a standard**. This technology allows batteries charging at higher levels of discharge (down to 6V), and **boosts the efficiency up to 20%** compared to PWM controllers.

THERMO KING SELECT PARTS

Thermo King solar panels are also available in the Thermo King SELECT Parts range. These parts are sourced to provide reliability under extreme conditions conditions and are offered at a lower price point than the Original Equipment (OE) used in production.

Thermo King Select kit comes with a **reliable PWM controller** that is **EMC/R10 certified** and approved by OEMs.

TO FIND THE RIGHT SOLUTION, ASK YOUR DEALER ABOUT THE SOLAR SAVINGS CALCULATOR TOOL.

RANGE OVERVIEW

KIT 12V			
LINE		**POWER**	
THERMOLITE™ truck / trailer refrigeration	W	110	40
TK SELECT trailer refrigeration	W	100	35
THERMOLITE™ Advancer 12V	W	110	50
THERMOLITE™ Advancer Solar Ready	W	110	50
KIT 24V			
LINE		**POWER**	
THERMOLITE™ truck / trailer refrigeration	W	110	40
12V/24V SOLAR PANEL EXTENSION			
FOR UNITS ALREADY EQUIPPED WITH SOLAR PANEL		**EXTRA POWER**	
THERMOLITE™ Extension 12V/24V Advancer	W	+ 110	
TK SELECT Extension 12V	W	+ 100	
THERMOLITE™ Extension 12V/24V	W	+ 40	
TK SELECT Extension 12V	W	+ 35	

SPECIFICATIONS

THERMOLITE™ SOLAR PANELS		110 W	40 W
Open circuit voltage	V	17.6	19.04
Maximum current	Amp	6.5	2.1
Certificates	-	CE and ROHS compliant	
IP ratings	-	IP 68 controller, IP 65 Delphi weatherpack connectors	
Efficiency	%	› 20 *	
Time needed to install kit	Mins	60	
Warranty	Years	2	
Dimensions **length x width x height	mm	1149 x 560 x 17.5	740 x 330 x 17.5
Weight ***	kg	~ 2.5	~ 1
TK SELECT PARTS SOLAR PANELS		**100 W**	**35 W**
Open circuit voltage	V	17.6	19.04
Maximum current	Amp	6	1.8
Certificates		CE and ROHS compliant	
IP ratings	-	IP 68 (1.5 M, 72 H)	
Efficiency	%	› 18 *	
Time needed to install kit	Mins	60	
Warranty	Years	1°	
Dimensions **length x width x height	mm	1125 x 540 x 17.5	750 x 290 x 17.5

* Efficiency of similar competitor panels are 10-12%.
** Thermo King solar panels have an ultra low profile, avoiding tree branches.
*** Thermo King solar panels are ultra light-weight.

° Depending on your needs you can opt for Thermo King Genuine Parts or Thermo King select Parts. Talk to your dealer to make the decision best suited to your situation.

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