



Clean, Free Power Right From Your Roof!

400W Kenworth T680 Top Fairing Solar Kit

Power Your Truck Smarter

Our 400W Top Fairing Solar Kit is custom-designed for the Kenworth T680, seamlessly integrating into the truck's aerodynamics while providing dependable power day after day.

Whether you're parked or on the road, this system keeps your batteries charged, reduces strain on your alternator, and saves fuel — all while extending the life of your electrical components.

Key Benefits

Reduce Alternator Load — Save Fuel

Solar offsets electrical demand, easing alternator strain and improving fuel efficiency.

Lightweight & Aerodynamic

Purpose-built for the T680 top fairing, maintaining smooth airflow and minimal drag.

Longer Battery Life

Keeps batteries topped up and healthy, preventing deep discharges and early replacement.

No More Boosting Batteries

Start confidently every time — even after extended downtime or cold weather.

Reliable, Maintenance-Free Power

Durable, weatherproof solar panels engineered for the road.



Harness the sun to power your systems, protect your equipment, and reduce operating costs. All with a sleek, low-profile solar kit that looks as good as it performs

Order Today!

Contact us to protect your batteries and save on costs

📞 1-403-713-0164

🌐 www.kingssolar.ca

✉ info@kingsolar.ca



Save Money



No Dead Batteries



**Drive Farther
Idle Less
Save More**

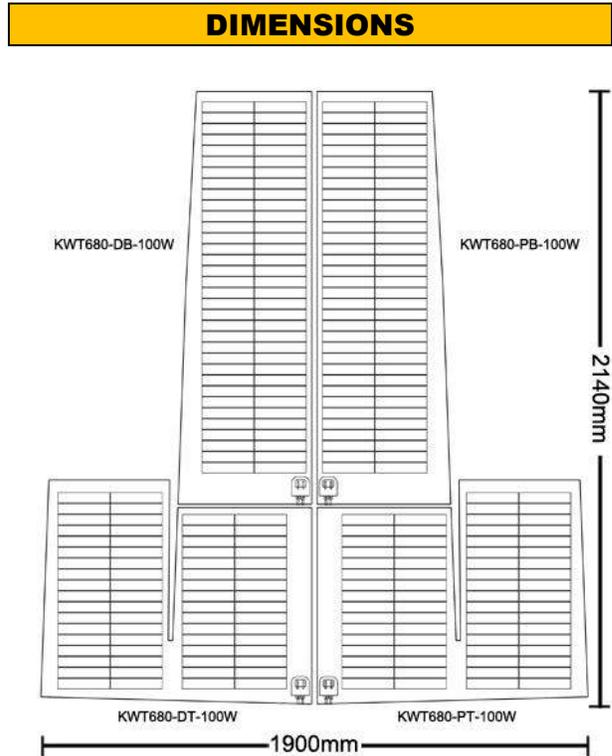
DATASHEET

Model: KWT680-TF-KIT-400W

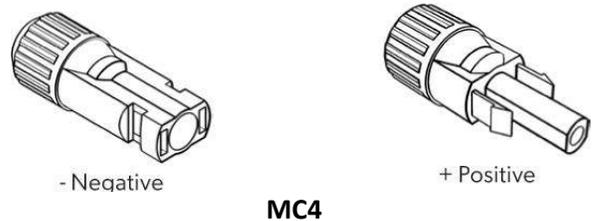
SPECIFICATIONS	
KWT680-DB-100W, KWT680-PB-100W	
KWT680-DT-100W, KWT680-PT-100W	
Peak Power (Wp)	100±2%
Power Tolerance Range (%)	±5
Open Circuit Voltage (Voc)	46.9±2%
Maximum Power Voltage (Vmp)	40.1±2%
Short Circuit Current (Isc)	2.7±2%
Maximum Power Current (Imp)	2.53±2%
Minimum Bending Radius (mm)	450
Maximum System Voltage (VDC)	1000
Efficiency	23-25%
KWT680-DB-100W, KWT680-PB-100W	
Wire Length (mm)	900
KWT680-DT-100W, KWT680-PT-100W	
Wire Length (mm)	450

Above specifications at standard test conditions (STC):

- 1000 W/m²
- Air Mass 1.5
- Cell temperature 25°C



SOLAR CONNECTORS (SC)



Specifications subject to local environmental conditions.

Specifications are subject to change.



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ROVER 20A/30A/40A MPPT CHARGE CONTROLLER



RENOGY **ROVER 20A/30A/40A MPPT CHARGE CONTROLLER**

The Renogy Rover MPPT Charge Controller is an intelligent negative ground controller. Built with protections against reverse polarity, short-circuiting, overheating, and more, this MPPT controller is also capable of self-diagnosing itself in the event of an error. Its durable shell protects against general wear and tear, and aluminum heat sink allows for heat dissipation. The Rover can automatically detect 12V/24V systems and can handle various battery options such as GEL and Lithium. Pair this charge controller with the Renogy BT-1 and unlock monitoring features on the Renogy BT-1 APP or view your system's performance in real time via the Renogy DC Home App.

KEY FEATURES

- Automatically detects 12V/24V DC system voltages; Deep Cycle Sealed, Gel, Flooded, and Lithium option ready.
- Innovative MPPT technology with high tracking efficiency up to 99% and peak conversion efficiency of 98%.
- Electronic protection against reverse polarity, overcharging, over-discharging, overload, short-circuiting, and reverse current.
- LCD screen with multiple LED indicators for displaying system operation information, customizable parameters, and error codes.
- Features diverse load control; also capable of charging over-discharged lithium batteries.
- Unlock Monitoring features through the new Renogy BT-1 Bluetooth module

PARAMETERS

	RVR20	RVR30	RVR40
Nominal System Voltage	12/24V	12/24V	12/24V
Rated Load Current	20A	20A	20A
Max Solar Input Voltage	100V DC	100V DC	100V DC
Max Solar Input Power	12V/260W, 24V/520W	12V/400W, 24V/800W	12V/520W, 24V/1040W
Self Consumption		≤ 100mA/12V, ≤ 58mA/24V	
Charge Circuit Voltage Drop		≤ 0.26V	
Discharge Circuit Drop		≤ 0.15V	
Temperature Compensation		-3mV/°C/2V	
Dimensions	210 x 151 x 59.5mm, 8.27 x 5.94 x 2.34in	238 x 173 x 72.5mm, 9.37 x 6.81 x 2.85in	238 x 173 x 72.5mm, 9.37 x 6.81 x 2.85in
Mounting Oval		7.66 x 4.70mm / 0.30 x 0.18in	
Max Terminal Size	10mm ² 8AWG	10mm ² 8AWG	10mm ² 8AWG
Net Weight	1.4kg / 3.08 lb	1.4kg / 3.08 lb	2.0kg / 4.41 lb
Operating Temperature		-35°C to +45°C, -31°F to 113°F	
Storage Temperature		-35°C to +75°C, -31°F to 167°F	
Humidity Range		≤ 95% (NC)	
Enclosure		IP32	
Altitude		< 3000m	
Communication		RS232	
Certification		FCC Part 15 Class B; CE, RoHS;	

BATTERY CHARGING PARAMETERS

Battery	CEL	SEALED	FLOODED	LI (LFP)	USER
Over-voltage Warning	16V	16V	16V	16V	9-17V
Equalization Voltage	—	14.6V	14.8V	—	9-17V
Boost Voltage	14.2V	14.4V	14.6V	14.4V	9-17V
Float Voltage	13.8V	13.8V	13.8V	—	9-17V
Boost Return Voltage	13.2V	13.2V	13.2V	13.2V	9-17V
Under Voltage Warning	12V	12V	12V	12V	9-17V
Under Voltage Recover	12.2V	12.2V	12.2V	12.2V	9-17V
Low Voltage Disconnect	11V	11V	11V	11V	9-17V
Low Voltage Reconnect	12.6V	12.6V	12.6V	12.6V	9-17V
Equalization Duration	—	2 Hours	2 Hours	—	0-10 Hours
Boost Duration	2 Hours	2 Hours	2 Hours	—	1-10 Hours

*Battery charging parameters in USER mode can be programmed using the Renogy BT App.

**Default charging parameters in LI mode are programmed for 12.8V LFP battery. Before using Rover to charge other types of lithium batteries, set the parameters according to the suggestions from battery manufacturer.

***Parameters are multiplied by 2 for 24V systems.