



# Wildside Tow Charger kit

# STERLING POWER

Improve charging speed and increase effective battery capacity



## Full Tow Kit, Included in Kit

aux feed cable AWG10 x 1 meter 20A moulded fuse

Pos battery feed cable AWG8 x 1 meter  
60A moulded fuse

Neg battery feed cable AWG10 x 1 meter  
20A moulded fuse

1 x gold plated fuse  
holder with 80A fuse  
for vehicle battery

2 x 50A connectors to for  
trailer to car connection



## Free to travel

## Free to fish

## Wildside

## Tow Charger

Enjoy the freedom of the road and engage in [Wildside](#) camping. No need to stop off at caravan parks or use generators to recharge your batteries. Simply charge as you are going along. As little as 30 minutes drive can replace an average daily usage of the batteries.

There are simply so many applications for this product that we have had to pick 2 key markets and cover them:  
**Caravanning and Bass fishing**

Over the years the ability to generate large quantities of electrical power has certainly increased as has the increasing onboard energy demand due to the large quantity of modern electrical appliances. However, the ability to transfer this power from where it was generated to where it's needed has sadly not kept up. The end result is the towed vehicle's battery does not get the fast and effective charge which it needs. So with this [Wildside](#) we have revisited the power system.

### So what is wrong with the current power delivery system on a towed vehicle?

The main problem is thin copper cabling incurring large voltage drops when the power reaches the battery in the caravan, so, there is little ability to deliver it. The standard 7 or 13 pin socket gives a 1.5 mm<sup>2</sup> cable for the lights, a 2.5 mm<sup>2</sup> to charge the battery and a 2.5 mm<sup>2</sup> to run the fridge.

Also the vehicle's alternator is a fixed voltage device, where as for advanced/fast charging the alternator must be turned into a 4 step charger allowing for much faster and more complete battery charging.

### Sterling's solution to the problem

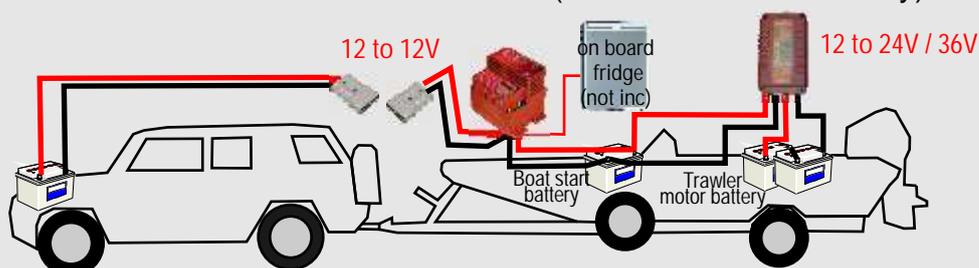
The new concept from Sterling is to allow a lot more power to be transmitted to the towed vehicle's battery(s), not only in the form of many more amperes but also increased voltage. The end result is a product which can charge up to 5 times faster and increases effective power by over 100-500%+ against conventional tow charging methods, we also supply a 10A auxiliary path to run other items such as a fridge or other 12V appliances on the towed vehicle.

### Increasing battery life

almost all caravan batteries that are replaced are replaced because they are sulphated and they are sulphated because they are never charged correctly. The [Wildside](#) ensures each battery type is charged according to its correct charging voltage requirements which, inturn, will extend the life of the battery.

### Bass fishing boat setup

same setup as caravan  
(minus the trawler battery)



Ideal for multiple combination use, example: 12-12V charging ( tow charge kit ) plus Sterling onboard 12-24V charging for trawler motor battery ( not included in this kit )

Visit the Sterling website for the latest products and news [www.sterling-power.com](http://www.sterling-power.com)

# Wildside Tow Charger kit



We commissioned tests to determine the advantages of using the **Wildside** tow charger over conventional charging systems under normal caravan towing conditions.

## Accessories used in tests

### The cables used

8m of cable from engine batt to vehicle battery.

1.5 mm sq cable (neg and pos)

2.5 mm sq cables (neg and pos)

**Wildside** w/ 16 mm sq cable (neg and pos)

### Alternator

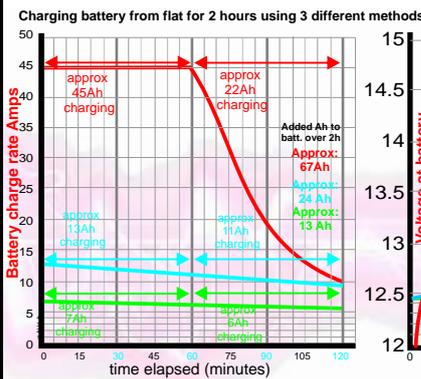
Bosch 90A-14.2V (typical alternator)

### Battery

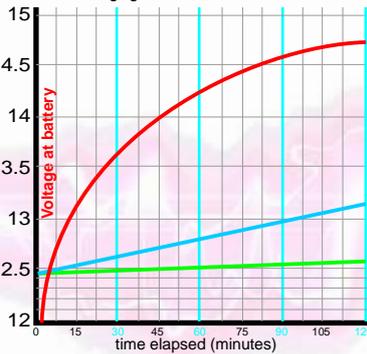
Alphaline "leisure" lead acid 12V / 115Ah at 20h rate. The battery ran through a few cycles first to take the 'new edge' (new batteries on first few cycles give greater performances).

## Test 1 - charging battery from flat - refer to key

**Test 1:** Demonstrates how well the **Wildside** charges against the 1.5mm and 2.5mm cable. This test assumes the worst case (a flat battery) and a 2 hour road journey to see how much faster and fuller the **Wildside** can charge your battery bank in that time frame.



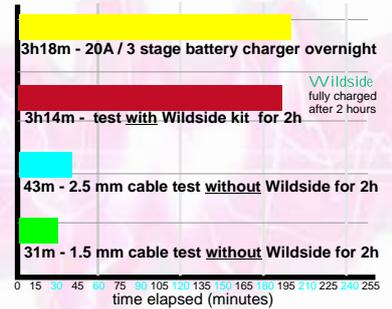
Battery voltage increase while charging with and without Wildside



Key:

Red = Wildside w/ 16mm sq charge cable  
Blue = single 2.5 mm sq charge cable  
Green = single 1.5 mm sq charge cable

Battery discharge time with fixed inverter 200 watt load after being charged with and without a Wildside for 2 hours from completely flat



Over 2 hours the tow kit will replace over 6 times more current than a 1.5 mm charge cable and about 3 times more than a standard 2.5 mm sq cable.

Higher charge voltage significantly increases power delivery into the battery. This is proved in graph 3

The battery lasted 3h14m when the **Wildside** had charged it. This is 4.5 times longer than the 2.5mm cable and 6.3 times longer than the 1.5mm cable.

**Test 2:** With the fully charged battery we put a load on the battery for 1 hour (3 lights plus a TV = approx 300W of power or about 25 Ah). With the fully charged battery **minus** the approx. 25Ah we then simulated a 1 hour drive to attempt to return the charge back. 3 complete runs were made: 1st with the 1.5mm cable, followed by the 2.5mm and finally the **Wildside** w/ 16mm cable.

## Test 2 - charging a battery which has been drained for 1h @ 300W



The **Wildside** tow kit has replaced approximately 36Ah of charge into the battery over the 60 minute period which is 4 times more than what was achieved by the 2.5mm sq cable.



Remote control (optional)

**Net conclusion:** The **Wildside** unit charges significantly faster and more fully than a standard tow charger kit. These figures would look even better if the Wildside was charging a larger battery bank (optimal = 300 - 450Ah).

Description	Part number
45A Full Tow kit Battery to Battery charger (inc 1 meter cables)	Tk1
Tow Kit Battery to Battery charger Remote Control (optional)	Tk1r
Extra 50A quick release 50A connectors set ( 2 units )	Qr50

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POWER**

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