



PRODUCT CATALOGUE



SOLAR BIKE

A decorative graphic consisting of a series of orange dots of varying sizes, arranged in a pattern that suggests motion or a trail, extending from the top right towards the center of the page.

is an Australian business that designs and imports electric bicycles and electric bicycle conversion kits. We have the greatest range of conversion kits in Australia that use the most advanced lithium ion battery technology and electric hub and crank motors.

We have our own neat range of electric bicycles as well that we've designed to meet the needs of most riders. We have focussed on finding a balance of quality components, affordability and riding performance.

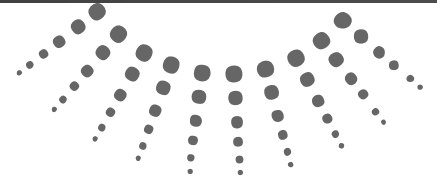
This catalogue shows our range of electric bicycles, conversion kits and just a few converted bicycles. Our website has additional information on hundreds of converted bicycles and videos of the conversion process.

- Pages 3 - 7** : Factory made electric bicycles
- Pages 8 - 26** : Electric bicycle conversion kits
- Pages 27 - 31** : Lithium ion batteries
- Pages 32 - 35** : Converted electric bicycle examples
- Pages 36 - 37** : Frequently Asked Questions

www.solarbike.com.au
Phone: 0404 695 106
Email: solbike@gmail.com

Zihni

Zihni is our folding bike model with 20" wheels. It is an elegant bicycle that has the battery hidden away within the frame. It has high spec parts that include disc brakes, a SAMSUNG lithium ion battery, SHIMANO gears, front and rear lights integrated that are powered with the main battery and operated from the LCD display on the handlebars. It is designed with performance, comfort and durability in mind and is fully operational with throttle only control or 9 levels of pedal assist control.



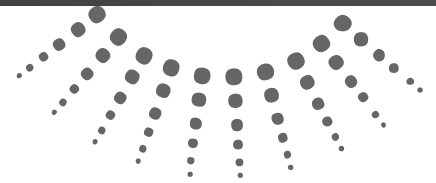
\$1790



- MODEL** : Zihni folding bike
- MOTOR** : Bafang 250W rear hub motor
- BATTERY** : 36V 10.5Ah Samsung
- OPERATION** : Throttle and pedal assist
- FORKS** : Rigid alloy
- BRAKES** : Tektro mechanical disc
- GEARS** : Shimano 7 speed
- TYRES** : Kenda 20"
- LIGHTS** : Integrated front and rear lights
- ACCESSORIES** : Mud guards and carrier rack
- INSTRUCTIONS** : solarbike.com.au/manuals

BUSH RANGER

The Bush Ranger is a high end electric mountain bike that is designed for people who want a great electric bike that can be used for trails as well as some road riding. It's a great integrated system that runs SUNTOUR XCT suspension forks, SHIMANO Alivio gears, hydraulic disc brakes and SCHWALBE tyres. The throttle and pedal assist control is great for tracks.

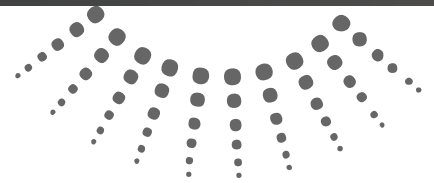


\$2490



- MODEL** : Bush Ranger mountain bike
- MOTOR** : Bafang 250W rear hub motor
- BATTERY** : 36V 14.5Ah Samsung
- OPERATION** : Throttle and pedal assist
- FORKS** : Suntour XCT
- BRAKES** : Tektro hydraulic disc
- GEARS** : Shimano Alivio 9 speed
- TYRES** : Schwalbe smart Sam
- LIGHTS** : Integrated front light
- ACCESSORIES** : Kick stand
- INSTRUCTIONS** : solarbike.com.au/manuals

The Olive is a thoroughly modern take on the classic step-through design featuring a comfortable riding experience for both men and ladies alike. Its balanced handling and upright position make it equally functional as an everyday commuter and as a recreational town bike. The BAFANG rear hub motor provides excellent assistance in all riding conditions with the integrated 36V lithium ion battery allowing for long distances between charges. Dependable hydraulic disc brakes, SHIMANO Alivio 9 speed gears and a full rack, integrated lights and fender system make this a fantastic, practical all-rounder sure to put a smile on the face of any rider.



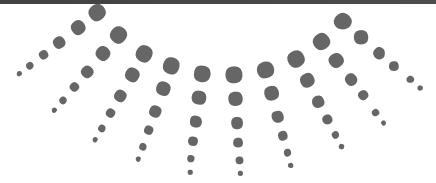
\$2490



- MODEL** : Olive step-through
- MOTOR** : Bafang 250W rear hub motor
- BATTERY** : 36V 14.5Ah Samsung
- OPERATION** : Throttle and pedal assist
- FORKS** : Suntour Nex
- BRAKES** : Tektro hydraulic disc
- GEARS** : Shimano Alivio 9 speed
- TYRES** : Schwalbe marathon
- LIGHTS** : Integrated front and rear lights
- ACCESSORIES** : Mud guards, carrier rack
- INSTRUCTIONS** : solarbike.com.au/manuals

ROADRUNNER

The Road Runner is hybrid bicycle designed to be a high-end commuting machine. It comes with integrated lights, mud guards, hydraulic disc brakes, SHIMANO Alivio 9 speed gears, suspension forks and a few other extras. This is the type of bike that people who are commuting long distances to work should consider as its upright sitting position, long range riding ability and smooth performance make it nearly unbeatable for the average commuter.



\$2490



- MODEL** : Road Runner hybrid
- MOTOR** : Bafang 250W rear hub motor
- BATTERY** : 36V 14.5Ah Samsung
- OPERATION** : Throttle and pedal assist
- FORKS** : Suntour Nex
- BRAKES** : Tektro hydraulic disc
- GEARS** : Shimano Alivio 9 speed
- TYRES** : Schwalbe marathon
- LIGHTS** : Integrated front and rear lights
- ACCESSORIES** : Mud guards, carrier rack
- INSTRUCTIONS** : solarbike.com.au/manuals

DREADNOUGHT

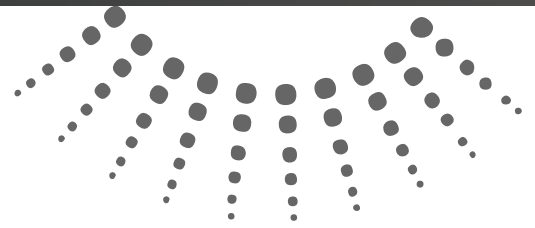
This is a high power beast of a bicycle that is designed to be ridden on sand, snow and trails. It's strictly for off-road use as it has an over the top 1000 Watt electric motor. It's the new BAFANG mid-drive Ultra torque sensing motor that is mounted within the crank. It has 4 inch tyres, suspension forks, hydraulic disc brakes, a long-range 48V 17Ah lithium ion battery and an internal 3 speed gear system. This is one of the most complete electric FAT BIKES available for high power long distance riding.

\$3490



- MODEL** : Dreadnought fat bike
- MOTOR** : Bafang 1000W Ultra mid-drive motor
- BATTERY** : 48V 17.5Ah LG lithium ion
- OPERATION** : Throttle and pedal assist
- FORKS** : Mozo suspension
- BRAKES** : Tektro hydraulic disc
- GEARS** : Shimano Alivio 9 speed
- TYRES** : Kenda 26" x 4"
- LIGHTS** : Integrated front light
- ACCESSORIES** : Kick stand
- INSTRUCTIONS** : solarbike.com.au/manuals

Conversion Kits



FRONT MINI-MOTOR HUB KIT



\$450

This is a basic front wheel mini motor kit compatible with power options ranging from 200 watts to 350 watts . The kit includes motor laced into an ALEX rim with 12G stainless steel spokes, motor, controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible and require a 36V battery.

Power options: 200 or 350 watts.

Rim sizes available: 20", 24", 26" or 700c.

Range and Speed: 28-32km/h. Range depends on battery used.

REAR MINI-MOTOR HUB KIT

This is a basic rear drive mini motor kit compatible with 36 volt batteries with power options ranging between 200Watts and 350Watts. The kit includes a motor laced into an ALEX rim with 12G stainless steel spokes, motor controller, twist grip throttle, thumb grip throttle, 8 speed cassette, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible and will work with any 36V battery.

Power options: 200 or 350 watts.

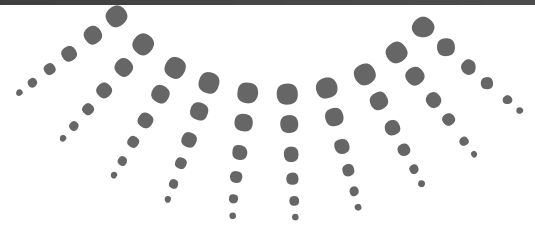
Rim sizes available: 20", 26", 650B or 700c.

Range and Speed: 28-32km/h. Range depends on battery used.

\$450



Conversion Kits



FRONT HIGH POWER HUB KIT



\$450

This basic conversion kit features a high power front drive motor and is compatible with both 36V and 48V batteries. The kit includes a motor laced into an ALEX rim with stainless steel spokes, motor, controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. 500W kits are disc compatible and require a 36V battery. 1000W kits require a 48V battery. 200W is the legal limit for riding on the road, these kits are for off-road fun. You should have strong steel forks to install this kit and you must install the torque bar or you will risk snapping the dropout, a rear kit is a better option if you have suspension or alloy forks.

Power options: 500 (36V) or 1000 (48V) watts.

Rim sizes available: 26" or 700c.

Range and Speed: 35-42 km/h. Range and speed depends on battery used.

REAR HIGH POWER HUB KIT

This basic conversion kit features a high power rear drive motor and is compatible with both 36V and 48V batteries. The kit includes a motor laced into an ALEX DH18 rim with 12G stainless steel spokes, 6 speed cluster, motor, controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. 500W kits are disc compatible and require a 36V battery. 1000W kits require a 48V battery. 200W is the legal limit for riding on the road, these kits are for off-road fun. The rear kit is a better option if you have suspension or alloy forks. You should always install the torque bar, even on the rear.

Power options: 500 (36V) or 1000 (48V) watts.

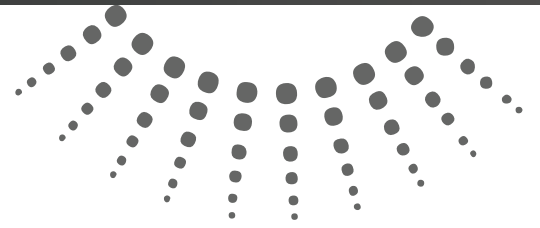
Rim sizes available: 26" or 700c.

Range and Speed: 35-42 km/h. Range and speed depends on battery used.

\$450



Conversion Kits



FRONT MINI-MOTOR HUB KIT WITH 36V 9AH PANASONIC TUBE BATTERY



\$990

This kit features a low profile mini motor capable of running between 200 - 350 watts of power paired with a PANASONIC 36V 9Ah tube battery. The front drive configuration greatly simplifies installation and maintenance whilst the centrally mounted battery affords excellent handling. This kit is ideal for use on a hybrid or flatbar road bike with rigid steel or aluminium forks. The kit includes a PANASONIC 36V 9Ah tube battery, 36V lithium ion battery charger, motor laced into an ALEX DH18 rim with 12G stainless steel spokes, motor controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible and require a 36V battery.

Power options: 200 or 350 watts.

Battery: 9Ah PANASONIC tube battery. See specifications here.

Rim sizes available: 20", 24", 26" or 700c.

Range and Speed: 28-32km/h. Range approximately 30-50km with light pedalling.

REAR MINI-MOTOR HUB KIT WITH 36V 9AH PANASONIC TUBE BATTERY

This kit features a low profile mini motor capable of running between 200 - 350 watts of power paired with a PANASONIC 36V 9Ah tube battery. The rear drive mini-motor keeps added weight to a minimum whilst the centrally mounted battery affords excellent handling. This kit is ideal for use on hybrid, flatbar road and mountain bikes with carbon or suspension forks. The kit includes a PANASONIC 36V 9Ah tube battery, 36V lithium ion battery charger, motor laced into an ALEX DH18 rim with 12G stainless steel spokes, 8 speed cassette, motor, controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible.

Power options: 200 or 350 watts.

Battery: 9Ah PANASONIC tube battery.

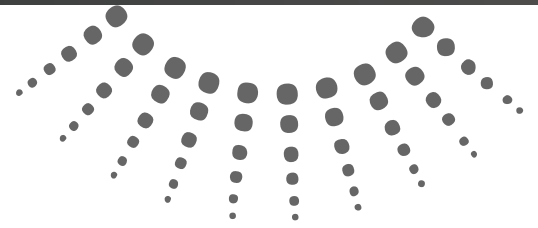
Rim sizes available: 20", 26", 27.5" or 700c.

Range and Speed: 28-32km/h. Range approximately 30-50km with light pedalling.

\$990



Conversion Kits



FRONT HIGH POWER MOTOR HUB KIT WITH 36V 9AH PANASONIC TUBE BATTERY



\$990

This kit features a high power front wheel motor paired with a PANASONIC 36V 9Ah tube battery. The high power makes this bike ideal for high speed commuting. The centrally mounted battery allows for excellent handling while the front wheel drive configuration greatly simplifies installation and maintenance. This kit is ideal for use on bikes with rigid steel forks. If you don't have solid steel forks then a rear wheel kit is a better option. The kit includes a PANASONIC 36V 9Ah tube battery, 36V lithium ion battery charger, motor laced into ALEX DH18 rim with stainless steel 12G spokes, motor, controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible and require a 36V battery. 200W is the legal limit for riding on the road.

Power options: 500 watts.

Battery: 36V 9Ah PANASONIC tube battery.

Rim sizes available: 26" or 700c.

Range and Speed: 35km/h. Range approximately 25km with light pedalling.

REAR HIGH POWER MOTOR HUB KIT WITH 36V 9AH PANASONIC TUBE BATTERY

This entry level kit features a high power rear drive motor paired with a PANASONIC 36V 9Ah tube battery. The high power makes this bike ideal for high speed commuting. The centrally mounted battery allows for excellent handling whilst the rear drive configuration makes this kit ideal for use on bikes with carbon or suspension forks. The kit includes a PANASONIC 36V 9Ah tube battery, 36V lithium ion battery charger, motor laced into an ALEX DH18 rim with stainless steel spokes, 6 speed cluster, motor, controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible and require a 36V battery.

Power options: 500 watts.

Battery: 36V 9Ah PANASONIC tube battery.

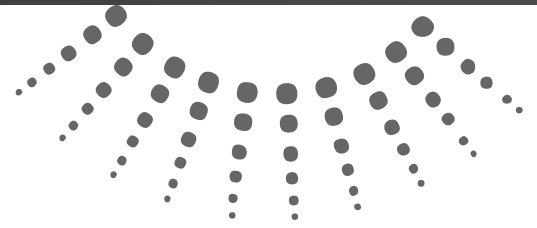
Rim sizes available: 26" or 700c.

Range and Speed: 35km/h. Range approximately 25km with light pedalling.

\$990



Conversion Kits



FRONT MINI-MOTOR HUB KIT WITH 36V 11.6AH PANASONIC TUBE BATTERY



\$1150

This kit features a low profile mini motor capable of running between 200 - 350 watts of power paired with a PANASONIC 36V 11.6Ah tube battery offering extended range in comparison to the 9Ah tube. The front drive configuration greatly simplifies installation and maintenance whilst the centrally mounted battery affords excellent handling. This kit is ideal for use on a hybrid or flatbar road bike with rigid steel or aluminium forks. The kit includes a PANASONIC 36V 11.6Ah tube battery, 36V lithium ion battery charger, motor laced into an ALEX DH18 rim with stainless steel spokes, motor controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible.

Power options: 200 or 350 watts.

Battery: 11.6Ah PANASONIC tube battery.

Rim sizes available: 20 , 24", 26 or 700c.

Range and Speed: 28-32km/h. Range approximately 35-55km with light pedalling.

REAR MINI-MOTOR HUB KIT WITH 36V 11.6AH PANASONIC TUBE BATTERY

This kit features a low profile mini motor capable of running between 200 - 350 watts of power paired with a Panasonic 36V 11.6Ah tube battery offering extended range in comparison to the 9Ah tube. The rear drive lightweight motor keeps added weight to a minimum whilst the centrally mounted battery affords excellent handling. This kit is ideal for use on hybrid, flatbar road and mountain bikes with carbon or suspension forks. The kit includes a PANASONIC 36V 11.6Ah tube battery, 36V lithium ion battery charger, motor laced into an ALEX DH18 rim with stainless steel spokes, 8 speed cassette, motor, controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible.

Power options: 200 or 350 watts.

Battery: 11.6Ah PANASONIC tube battery.

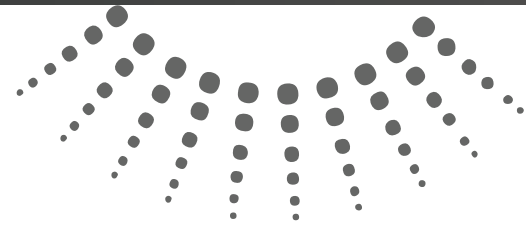
Rim sizes available: 20", 26", 27.5" or 700c.

Range and Speed: 28-32km/h. Range approximately 35-55km with light pedalling.

\$1150



Conversion Kits



FRONT HIGH POWER MOTOR HUB KIT WITH 36V 11.6AH PANASONIC TUBE BATTERY



\$1150

This kit features a front wheel high power motor mated to a PANASONIC 36V 11.6Ah tube type battery offering extended range in comparison to the 9Ah tube battery. The front drive configuration greatly simplifies installation and maintenance while the centrally mounted battery allows for superior handling. This kit is suitable for use on hybrid and mountain bikes with rigid steel forks. The kit includes a PANASONIC 36V 11.6Ah tube battery, 36V lithium ion battery charger, motor laced into an ALEX DH18 rim with 12G stainless steel spokes, motor controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible.

Power options: 500 watts.

Battery: 36V 11.6Ah PANASONIC tube battery. See specifications here:

Rim sizes available: 26" or 700c.

Range and Speed: 35km/h. Range approximately 30km with light pedalling.

REAR HIGH POWER MOTOR HUB KIT WITH 36V 11.6AH PANASONIC TUBE BATTERY

This kit features a rear wheel high power motor mated to a PANASONIC 36V 11.6Ah tube type battery offering extended range in comparison to the 9Ah tube battery. The rear drive configuration and centrally mounted battery allows for balanced handling and make this kit suitable for use on nearly all bicycles; including hybrid and mountain bikes with carbon or suspension forks. The kit includes a PANASONIC 36V 11.6Ah tube battery, 36V lithium ion battery charger, motor laced into an ALEX DH18 rim with stainless steel spokes, 6 speed cluster, motor controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible.

Power options: 500 watts.

Battery: 36V 11.6Ah PANASONIC tube battery. See specifications here:

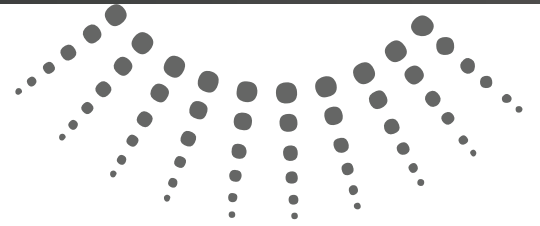
Rim sizes available: 26" or 700c.

Range and Speed: 35km/h. Range approximately 30km with light pedalling.

\$1150



Conversion Kits



FRONT MINI-MOTOR HUB KIT WITH 36V 14AH PANASONIC TIGER SHARK BATTERY



\$1320

This kit features a low profile mini motor capable of running between 200 - 350 watts of power paired to a long range 36V 14Ah PANASONIC battery. The smaller motor limits the additional weight whilst the centrally mounted battery allows for excellent weight balance. This kit is ideal for use on bicycles with rigid steel or aluminium forks. The kit includes a PANASONIC 36V 14Ah frame mount battery, 36V lithium ion battery charger, motor laced into an ALEX DH18 rim with stainless steel spokes, motor controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible.

Power options: 200 or 350 watts.

Battery: 36V 14Ah Tiger Shark PANASONIC battery. See specifications here.

Rim sizes available: 20", 24", 26" or 700c.

Range and Speed: 28-32km/h. Range approximately 40-60km with light pedalling.

REAR MINI-MOTOR HUB KIT WITH 36V 14AH PANASONIC TIGER SHARK BATTERY

This kit features a low profile mini motor capable of running between 200-350 watts of power paired to a long range PANASONIC 36V 14Ah Tiger Shark battery. The small rear drive motor makes for minimal additional weight whilst the centrally mounted battery affords excellent weight balance. This kit is ideal for hybrid and flatbar road bikes with lightweight forks or hardtail mountain bikes with suspension forks. The kit includes a 36V 14Ah Tiger Shark PANASONIC battery, 36V lithium ion battery charger, motor laced into ALEX DH18 rim with stainless steel spokes, 8 speed cassette, motor controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible.

Power options: 200 or 350 watts.

Battery: 36V 14Ah Tiger Shark PANASONIC battery. See specifications here.

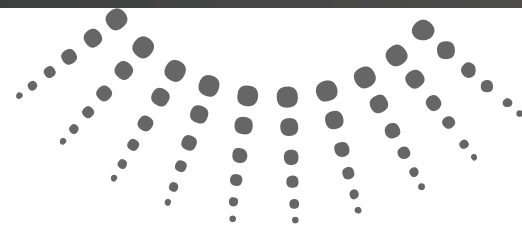
Rim sizes available: 20", 26", 27.5" or 700c.

Range and Speed: 28-32km/h. Range approximately 40-60km with light pedalling.

\$1320



Conversion Kits



FRONT HIGH POWER MOTOR HUB KIT WITH 36V 14AH PANASONIC TIGER SHARK BATTERY



\$1320

This kit features a 36V 14Ah PANASONIC Tiger Shark battery paired to a high power front drive motor, making it ideal for high speed commuting or use with heavy duty bicycles. The front drive configuration coupled to a centrally mounted battery allows for excellent weight balance. This kit is ideal for those looking for a long range high speed system for use on a bike with rigid steel forks. The kit includes a 14Ah PANASONIC Tiger Shark battery, 36V lithium ion battery charger, motor laced into ALEX DH18 rim with stainless steel spokes, motor controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible.

Power options: 500 watts.

Battery: 36V 14Ah PANASONIC Tiger Shark battery. See specifications here.

Rim sizes available: 26" or 700c.

Range and Speed: 35km/h. Range approximately 40km with light pedalling.

REAR HIGH POWER MOTOR HUB KIT WITH 36V 14AH TIGER SHARK BATTERY

This kit features a 36V 14Ah PANASONIC Tiger Shark battery paired to a high power rear drive motor making it ideal for high speed commuting or use with heavy duty bicycles. The rear drive configuration coupled to a centrally mounted battery allows for predictable handling and excellent weight balance. This kit is ideal for those looking for a long range high speed system for use on a bike with carbon or suspension forks. The kit includes a 36V 14Ah PANASONIC Tiger Shark battery, 36V lithium ion battery charger, motor laced into an ALEX DH18 rim with stainless steel spokes, 6 speed cluster, motor controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible and require a 36V battery. 200W is the legal limit for riding on the road.

Power options: 500 watts.

Battery: 36V 14Ah PANASONIC Tiger Shark battery. See specifications here.

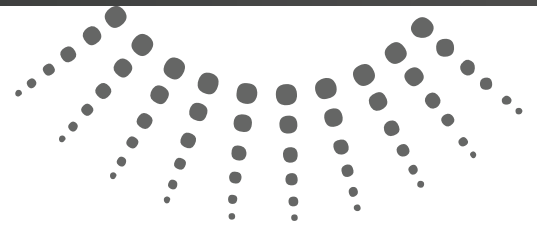
Rim sizes available: 26" or 700c.

Range and Speed: 35km/h. Range approximately 40km with light pedalling.

\$1320



Conversion Kits



FRONT MINI-MOTOR HUB KIT WITH 36V 21AH TIGER SHARK BATTERY



\$1590

This kit features a low profile mini motor capable of running between 200-350 Watts of power paired to a huge 36V 21Ah PANASONIC battery. The smaller motor limits the additional weight whilst the centrally mounted battery allows for excellent weight balance. This kit is ideal for use on bicycles with rigid steel or aluminium forks. The large battery is the special feature of this kit, the huge 21Ah capacity will allow an amazing range of beyond 80km! The kit includes a PANASONIC 36V 21Ah frame mount battery, 36V lithium ion battery charger, motor laced into ALEX DH18 rim with stainless steel spokes, motor controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible.

Power options: 200 or 350 watts.

Battery: 36V 21Ah Tiger Shark PANASONIC battery.

Rim sizes available: 20", 24", 26" or 700c.

Range and Speed: 28-32km/h. Range approximately 80km with light pedalling.

REAR MINI-MOTOR HUB KIT WITH 36V 21AH PANASONIC TIGER SHARK BATTERY

This kit features a low profile mini motor capable of running between 200-350 Watts of power paired to an extremely large capacity 36V 21Ah PANASONIC lithium ion battery. The small rear drive motor makes for minimal additional weight whilst the centrally mounted battery affords excellent weight balance. This kit is ideal for hybrid and flatbar road bikes with lightweight forks or hardtail mountain bikes with suspension forks. The kit includes a 36V 21Ah Tiger Shark PANASONIC battery that will allow up to 80km of heavily powered riding, 36V lithium ion battery charger, motor laced into ALEX DH18 rim with stainless steel spokes, 8 speed cassette, motor controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible.

Power options: 200 or 350 watts.

Battery: 36V 21Ah Tiger Shark PANASONIC battery.

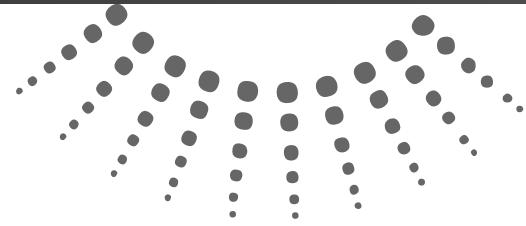
Rim sizes available: 20", 26", 27.5" or 700c.

Range and Speed: 28-32km/h. Range approximately 70-80km with light pedalling.

\$1590



Conversion Kits



FRONT HIGH POWER MOTOR HUB KIT WITH 36V 21AH TIGER SHARK BATTERY



\$1590

This kit features a 36V 21Ah PANASONIC Tiger Shark battery paired to a high power front drive motor making it ideal for high speed commuting. The front drive configuration coupled to a centrally mounted battery allows for excellent weight balance. This kit is ideal for those looking for a long range high speed system for use on a bike with rigid steel forks. The large capacity 21Ah battery is the key feature of this kit, allowing for an amazing range under high power. The kit includes a 21Ah PANASONIC Tiger Shark battery, 36V lithium ion battery charger, motor laced into an ALEX DH18 rim with stainless steel spokes, motor controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible and require a 36V battery. 200W is the legal limit for riding on the road.

Power options: 500 watts.

Battery: 36V 21Ah PANASONIC Tiger Shark battery.

Rim sizes available: 26" or 700c.

Range and Speed: 35km/h. Range approximately 60km with light pedalling.

REAR HIGH POWER MOTOR HUB KIT WITH 36V 21AH TIGER SHARK BATTERY

This kit features a 36V 21Ah PANASONIC Tiger Shark battery paired to a high power rear drive motor; making it ideal for high speed commuting. The rear drive configuration coupled to a centrally mounted battery allows for predictable handling and excellent weight balance. This kit is ideal for those looking for a long range high speed system on a bicycle with suspension or carbon forks. The kit includes a huge 36V 21Ah PANASONIC Tiger Shark battery, 36V lithium ion battery charger, motor laced into ALEX DH18 rim with stainless steel spokes, 6 speed cluster, motor controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible and require a 36V battery. 200W is the legal limit for riding on the road.

Power options: 500 watts.

Battery: 36V 21Ah PANASONIC Tiger Shark battery.

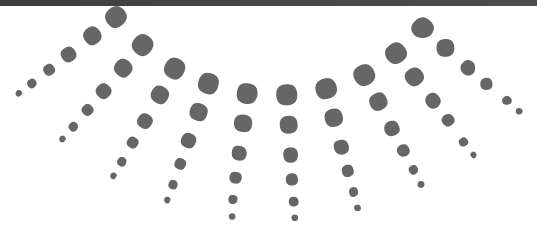
Rim sizes available: 26" or 700c.

Range and Speed: 35km/h. Range approximately 60km with light pedalling.

\$1590



Conversion Kits



FRONT MINI-MOTOR HUB KIT WITH 36V 11.6AH PANASONIC RACK BATTERY



\$1100

This Kit features a Panasonic 36V 11.6Ah rear rack mounted battery mated to a low profile mini motor optimized to run the street legal 200 watts. The mini motor allows for minimal weight intrusion whilst the front drive configuration greatly simplifies installation and maintenance. This is an ideal conversion kit for flatbar road or hybrid bikes with rigid steel or aluminium forks. The Kit includes a PANASONIC 36V 11.6Ah rack battery, 36V lithium ion battery charger, motor laced into an ALEX DH18 rim with stainless steel spokes, 8 speed cassette, motor controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible and require a 36V battery. 200W is the legal limit for riding on the road.

Power options: 200 or 350 watts.

Battery: 11.6Ah PANASONIC rack battery

Rim sizes available: 20", 24", 26" or 700c.

Range and Speed: 28-32km/h. Range approximately 35-50km with light pedalling.

REAR MINI-MOTOR HUB KIT WITH 36V 11.6AH PANASONIC RACK BATTERY

This Kit features a PANASONIC 36V 11.6Ah rear rack mounted battery mated to a low profile mini motor optimized to run the street legal 200 watts. The mini motor allows for minimal weight intrusion whilst the rear drive configuration allows for stable handling in all conditions. This is an ideal conversion kit for hybrid bikes with carbon or suspension forks. The Kit includes PANASONIC 36V 11.6Ah rack battery, 36V lithium ion battery charger, motor laced into ALEX DH18 rim with stainless steel spokes, 8 speed cassette, motor, controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible and require a 36V battery. 200W is the legal limit for riding on the road.

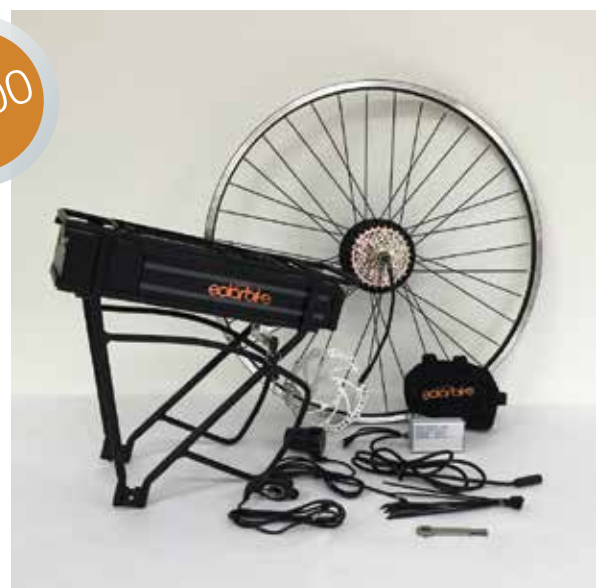
Power options: 200 or 350 watts.

Battery: 11.6Ah PANASONIC rack battery.

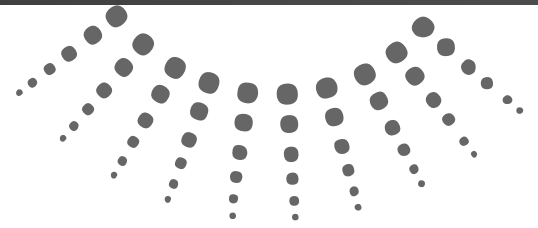
Rim sizes available: 20", 26", 27.5" or 700c.

Range and Speed: 28-32km/h. Range approximately 35-50km with light pedalling.

\$1100



Conversion Kits



FRONT HIGH POWER MOTOR HUB KIT WITH 36V 11.6AH PANASONIC RACK BATTERY



\$1100

This kit features a PANASONIC 36V 11.6Ah rear rack battery mated to a high power 500W front drive motor giving it ample power and torque for high speed commuting or heavy duty applications. The front wheel drive configuration greatly simplifies installation and maintenance and makes it a good fit for robust bikes with rigid steel forks. This kit includes a PANASONIC 36V 11.6Ah rack battery, 36V lithium ion battery charger, motor laced into an ALEX DH18 rim with stainless steel spokes, motor controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible and require a 36V battery. 200W is the legal limit for riding on the road.

Power options: 500 watts.

Battery: 36V 11.6Ah PANASONIC rack battery.
Installation video: [Click here](#).

Rim sizes available: 26" or 700c.

Range and Speed: 35km/h. Range approximately 30km with light pedalling.

REAR HIGH POWER MOTOR HUB KIT WITH 36V 11.6AH PANASONIC RACK BATTERY

This kit has a features a PANASONIC 36V 11.6Ah rear rack battery mated to a high power rear drive motor giving it ample power and torque for high speed commuting or high power applications. The rear wheel drive configuration gives it stable handling and makes it a good fit for bikes with suspension or carbon forks. This kit includes a PANASONIC 36V 11.6Ah rack battery, 36V lithium ion battery charger, motor laced into ALEX DH18 rim with stainless steel spokes, 6 speed cluster, motor controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible and require a 36V battery. 200W is the legal limit for riding on the road.

Power options: 500 watts.

Battery: 36V 11.6Ah PANASONIC rack battery.

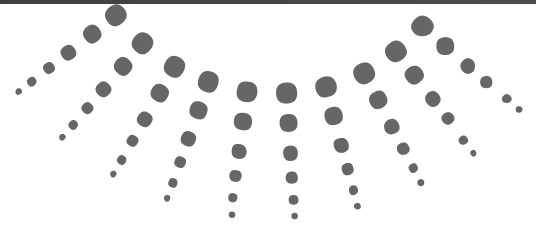
Rim sizes available: 26" or 700c.

Range and Speed: 35km/h. Range approximately 30km with light pedalling.

\$1100



Conversion Kits



FRONT MINI-MOTOR HUB KIT WITH 36V 17.5AH PANASONIC RACK BATTERY



\$1320

This is a low-profile front wheel drive conversion kit featuring a 36V 17.5 Ah PANASONIC rear rack battery allowing for a great range. The front drive mini motor keeps overall weight to a minimum whilst still providing good torque assistance for long distance commuting. Furthermore, the front wheel drive configuration allows for minimal intrusion on the drivetrain so greatly simplifies maintenance. This kit is ideal for flatbar road and hybrid bikes that feature rigid steel or aluminium forks capable of handling the additional torque. This kit includes a PANASONIC 36V 17.5Ah rack battery, 36V lithium ion battery charger, motor laced into ALEX DH18 rim with stainless steel spokes, motor, controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible and require a 36V battery. 200W is the legal limit for riding on the road.

Power options: 200 or 350 watts.

Battery: 17.5Ah PANASONIC rack battery.

Rim sizes available: 20", 24", 26" or 700c.

Range and Speed: 28-32km/h. Range approximately 50-70km with light pedalling.

REAR MINI-MOTOR HUB KIT WITH 36V 17.5AH PANASONIC RACK BATTERY

This is a low-profile rear wheel drive conversion kit featuring a 36V 17.5 Ah PANASONIC rear rack battery allowing for a very long riding range. The rear drive mini motor keeps overall weight to a minimum whilst still providing good torque assistance for long distance commuting. This kit is ideal for flatbar road and hybrid bikes that feature lightweight carbon or aluminium forks that are unsuitable for the additional torque. This kit includes a PANASONIC 36V 17.5Ah rack battery, 36V lithium ion battery charger, motor laced into an ALEX DH18 rim with stainless steel spokes, 8 speed cassette, motor controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible.

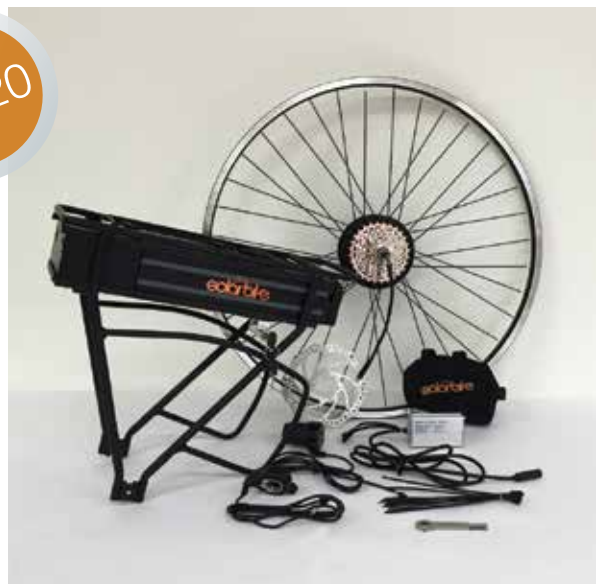
Power options: 200 or 350 watts.

Battery: 17.5Ah PANASONIC rack battery.

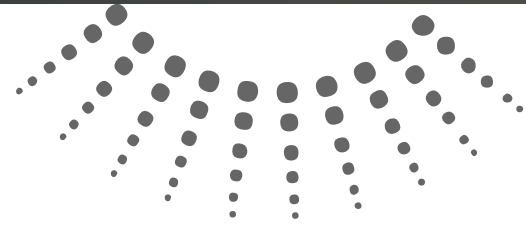
Rim sizes available: 20", 26", 27.5" or 700c.

Range and Speed: 28-32km/h. Range approximately 40-70km with light pedalling.

\$1320



Conversion Kits



FRONT WHEEL HIGH POWER KIT WITH 36V 17.5AH PANASONIC RACK BATTERY



\$1320

This is a high power 500 Watt front wheel conversion kit using a PANASONIC 36V 17.5Ah battery that mounts in a custom rear carrier rack. It delivers the highest power available in a 36V system with its front drive configuration making it ideal for bikes equipped with rigid steel forks. The kit includes a PANASONIC 36V 17.5Ah rack battery, 36V lithium ion battery charger, motor laced into an ALEX DH18 rim with stainless steel spokes, motor controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible and require a 36V battery. 200W is the legal limit for riding on the road.

Power options: 500 watts.

Battery: 17.5Ah PANASONIC rack battery.

Rim sizes available: 26" or 700c.

Range and Speed: 35km/h. Range approximately 45km with light pedalling.

REAR WHEEL HIGH POWER KIT WITH 36V 17.5AH PANASONIC RACK BATTERY

This is a high power 500 Watt rear wheel conversion kit using a long range 36V 17.5Ah PANASONIC battery that mounts in a rear carrier rack. It delivers the highest power available for a 36V system and its rear drive configuration makes it ideal for bikes with forks incapable of handling the additional torque. The kit includes a PANASONIC 36V 17.5Ah rack battery, 36V lithium ion battery charger, motor laced into an ALEX DH18 rim with stainless steel spokes, 6 speed cluster, motor controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible and require a 36V battery. 200W is the legal limit for riding on the road.

Power options: 500 watts.

Battery: 17.5Ah PANASONIC rack battery.

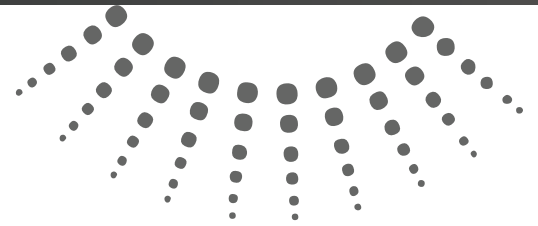
Rim sizes available: 26" or 700c.

Range and Speed: 35km/h. Range approximately 45km with light pedalling.

\$1320



Conversion Kits



FRONT 1000 WATT KIT WITH 48V 10.5AH TIGER SHARK BATTERY



\$1290

This is a High Power 1000 Watt front wheel conversion kit that uses a 48V 10.5Ah battery that mounts within the frame of the bicycle for optimum weight balance. It delivers the highest power available in our range and is ideal for high speed commuting. This kit includes a PANASONIC 48V 10.5Ah Tiger Shark battery, 48V lithium ion battery charger, motor laced into ALEX DH18 rim with stainless steel spokes, motor controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible. 200W is the legal limit for riding on the road.

Power options: 1000 watts.

Battery: 48V 10.5Ah PANASONIC Tiger Shark Battery.

Rim sizes available: 26" or 700c.

Range and Speed: 42km/h. Range approximately 20-25km with light pedalling.

REAR 1000 WATT KIT WITH 48V 10.5AH TIGER SHARK BATTERY

This is a rear wheel high power 1000 watt electric bike kit that includes a battery that mounts within the frame of a bicycle. It's one of the most popular 1000W kits on the market due to its simple design, robustness and practicality. The kit includes a PANASONIC 48V 10.5Ah Tiger Shark battery, 48V lithium ion battery charger, motor laced into ALEX DH18 rim with stainless steel spokes, 6 speed cluster, motor controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible. 200W is the legal limit for riding on the road.

Power options: 1000 watts.

Battery: 48V 10.5Ah PANASONIC Tiger Shark Battery.

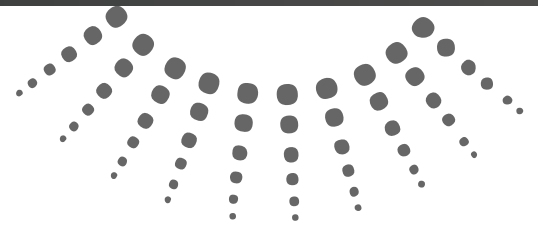
Rim sizes available: 26" or 700c.

Range and Speed: 42km/h. Range approximately 20-25km with light pedalling.

\$1290



Conversion Kits



FRONT 1000 WATT KIT WITH 48V 17.5AH TIGER SHARK BATTERY



\$1590

This is a high power 1000W front wheel kit that uses the highest capacity and longest range 48V battery that mounts within the frame of the bicycle. It delivers power, speed and range to the highest ability of all kits available and with the new Tiger Shark mould the handling is greater than having a rack mounted battery. This kit can only be used with rigid front forks. If you have suspension or carbon forks then you should use a rear wheel powered kit. This kit includes a PANASONIC 48V 17.5Ah tiger shark battery, 48V lithium ion battery charger, motor laced into an ALEX DH18 rim with stainless steel spokes, motor, controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible. 200W is the legal limit for riding on the road.

Power options: 1000 watts.

Battery: 48V 17.5Ah PANASONIC Tiger Shark Battery.

Rim sizes available: 26" or 700c.

Range and Speed: 42km/h. Range approximately 37km with light pedalling.

REAR 1000 WATT KIT WITH 48V 17.5AH TIGER SHARK BATTERY

This is a rear wheel high power 1000 watt electric bike kit that includes a battery that mounts within the frame of a bicycle. It comes with a crazy huge battery capacity of 17.5Ah, running at 48 volts. This is only possible recently with advances in PANASONIC lithium ion cells. These cells currently have the highest power to weight ratio and high 3C discharge capability. This will allow you to run a high power kit for long durations with no problems. The new design Tiger Shark mould is neat, tough and allows quick removal. The complete kit includes a PANASONIC 48V 17.5Ah Tiger Shark battery, 48V lithium ion battery charger, motor laced into an ALEX DH18 rim with stainless steel spokes, 6 speed cluster, motor controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible. 200W is the legal limit for riding on the road.

Power options: 1000 watts.

Battery: 48V 17.5Ah PANASONIC Tiger Shark Battery.

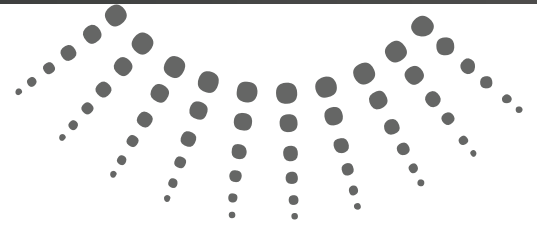
Rim sizes available: 26" or 700c.

Range and Speed: 42km/h. Range approximately 36km with light pedalling.



\$1590

Conversion Kits



FRONT 1000 WATT KIT WITH 48V 14AH PANASONIC RACK BATTERY



\$1430

This high power 1000W kit uses a front wheel direct drive motor and a rack battery. It has high discharge PANASONIC lithium ion cells to allow the high power draw of the motor and controller. It's a great kit for a balance of high speed and range. You shouldn't use this kit with suspension or carbon fibre forks, they're not strong enough to safely withstand the motor torque, using a rear wheel kit is better in this situation. The kit includes a PANASONIC 48V 14Ah rack battery, 48V lithium ion battery charger, motor laced into an ALEX DH18 rim with stainless steel spokes, motor controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible and require a 48V battery. 200W is the legal limit for riding on the road.

Power options: 1000 watts.

Battery: 48V 14Ah PANASONIC Rack Battery.

Rim sizes available: 26" or 700c.

Range and Speed: 42km/h. Range approximately 25-30km with light pedalling.

REAR 1000 WATT KIT WITH 48V 14AH PANASONIC RACK BATTERY

This is a rear wheel high power kit that uses a double layered rack battery that holds a 48V rack battery. It uses a direct drive high power motor that mounts on the rear wheel. The motor comes laced in either a 26" or 700c rim. It's better to use a rear wheel kit if you have suspension or carbon forks. The kit includes a PANASONIC 48V 14Ah rack battery, 48V lithium ion battery charger, motor laced into an ALEX DH18 rim with stainless steel spokes, 6 speed cluster, motor controller, twist grip throttle, thumb grip throttle, torque bar, cable ties, disc, inner tube and instruction manual. All kits are disc compatible and require a 48V battery. 200W is the legal limit for riding on the road.

Power options: 1000 watts.

Battery: 48V 14Ah PANASONIC Rack Battery.

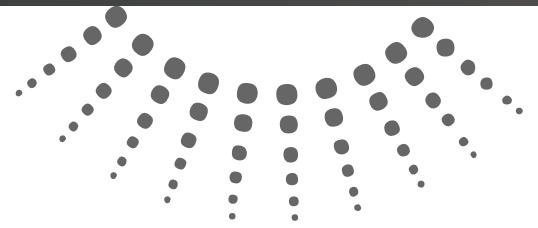
Rim sizes available: 26" or 700c.

Range and Speed: 42km/h. Range approximately 25-30km with light pedalling.

\$1430



Conversion Kits



1500 WATT HIGH POWER FAT BIKE KITS



We have some fat bike kits available for the rear wheel for 26" rims. They are very high power kits with a big motor. They run at 1500W and can reach up to 50km/h on the flat road, slower of course on the beach. Electric fat bikes are not really that good to ride on the road, they are magic on the sand though. It is really a lot of fun riding on the beach or gravel fire trails and you can have a lot of fun with them. For other fat bike electric motor options, we can lace our other motors into pre-existing rims as long as you have 36 spokes on your current rim. You need a very high quality 48V battery to run these kits.

Power options: 1500 watts.

Battery options: Any of our 48 volt battery options.

Rim sizes available: 26" rear wheel.

Range and Speed: 50km/h. Range between 20-30km depending on battery option.

1000 WATT BAFANG MID-DRIVE KIT

The 8FUN BBS03 Crank Drive Kit is their new high power performance mid drive kit. It is run at 1000W nominal power. You require a very high quality 48V battery to run this kit. The kit will fit onto regular 68-73mm cranks, though wider bottom bracket kits are stocked and available upon request. This kit provides a massive 160 N.m of torque. It's extremely powerful and unsurpassed in the market for high power mid drive kits. You can choose any of the battery options below to run this kit. It comes with both throttle and pedal assist using an integrated speed sensor. It's probably quite excessive for your needs. It will chew up your gears and require you to change chain, brake pads and rear cluster every 3-5 months. You need good brakes and lots of common sense if you're to put this on your bike. This is an off-road kit only, 200W is the legal limit for riding on the roads in Australia.

Motor type: BAFANG BBS03/BBSHD

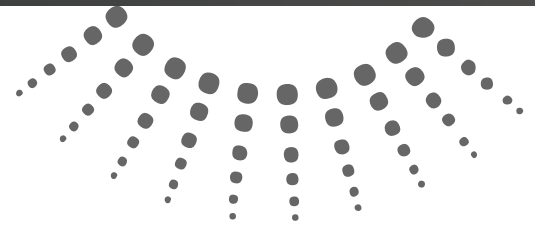
Power options: 1000 watts.

48 volt battery options: 10.5Ah & 17.5Ah tiger shark moulds and 14Ah & 17Ah racks.

Speed and range: 40-60km/h depending on bike gearing and 25-50km range depending on battery



Conversion Kits



750 WATT BAFANG MID-DRIVE KIT



\$690

The 8FUN BBS02 Crank Drive Kit can be run at a power of 750 Watts. This kit requires a 48V battery. The kit mounts in the crank, you remove your existing bottom bracket and replace it with the 4.3 kg motor. It comes with both throttle and pedal assist control using an integrated speed sensor. This kit is compatible with standard bikes with a 68-73mm bottom bracket. It has a maximum torque of 80 N.m. This is a superb option if you are looking for a high power kit. It's extremely well tested by multiple users all over the world and with the 48V battery options you can customise your own electric bike nicely. Running this kit will require a little more maintenance on the chain and rear gears of your bicycle due to the high power output. It's worth it though if you want that extra juice! You should have a good set of brakes if you are mounting this kit to your bicycle. It's pushing the limits.

Motor type: BAFANG BBS02

Power options: 750 watts.

48 volt battery options: 10.5Ah & 17.5Ah tiger shark moulds and 14Ah & 17Ah racks.

Speed and range: 40-50km/h depending on bike gearing and 25-50km range depending on battery

250 AND 350 WATT SOLAR BIKE MID-DRIVE KITS

Our own branded up mid-drive motor can be run at powers of 250 and 350 watts and use any of our 36V battery options. This kit mounts in the crank and is one of only a few mid-drive conversion kits that have torque sensing. The kit can sense the pressure you apply on the pedals and this results in a smoother ride than using traditional cadence sensing. You remove your existing bottom bracket and replace it with the 3.7 kg motor. It comes with both throttle and pedal assist using an integrated speed sensor. This kit is compatible with standard bikes with a 68-73mm bottom bracket. It's a great kit to use and it enables you to run with all of your rear gears. It took a long time to find a reliable torque sensing mid-drive kit but we're happy to be able to provide this one to the market.

Motor type: SOLAR BIKE

Power options: 250 or 350 watts.

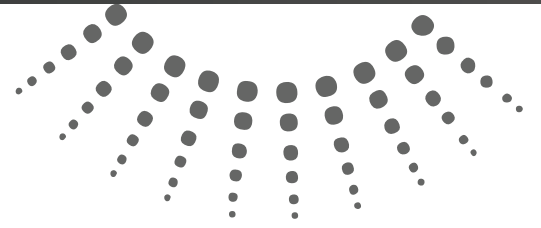
36 volt battery options for 250 and 350W motors: 9Ah & 11.6Ah tubes, 14Ah & 21Ah tiger shark mould, 11Ah and 17Ah rack style.

Speed and range: 30 – 40km/h depending on bike gearing and 25-100km range depending on battery

\$690



Batteries



36V 9AH FROG BATTERY



This battery is designed to attach to the seat pole of a bicycle. It is useful for folding bikes and tricycles but can be used on many other bicycles too if you like the style. The controller sits in the box underneath the battery. You need approximately 15cm of seat tube free to allow space for the battery. It is easily removed with a key lock.

- Voltage:** 36V
- Capacity:** 9Ah, 324 Wh
- Size (cm):** 22 (l) x 8 (h) x 15 (w)
- Weight:** 2.5 kg
- Cells:** PANASONIC 2200mAh
- Configuration:** 40 cells, 4P10S
- Battery:** \$450
- Charger:** \$100

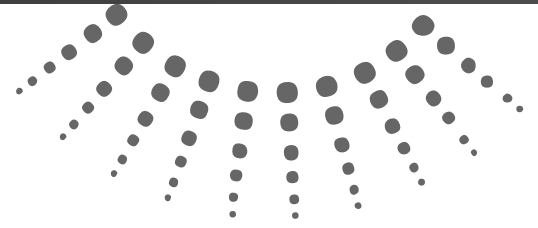
36V 9AH TUBE BATTERY

This neat tubular battery from PANASONIC comes with a lockable holder to secure the battery to the bike frame and cable to run to motor controller. It is one of the most popular batteries due to its ability to run high power motors up to 600W and its ease of installation. It provides a range of approximately 30-50km with the 200W mini-motor kit.

- Voltage:** 36V
- Capacity:** 9Ah, 324 Wh
- Size (cm):** 32 (l) x 9 (d)
- Weight:** 2.4 kg
- Cells:** PANASONIC 2200mAh
- Configuration:** 40 cells, 4P10S
- Battery:** \$450
- Charger:** \$100



Batteries



36V 11.6AH TUBE BATTERY



\$600

This tubular lithium ion battery from PANASONIC has the slightly higher capacity in the tubular battery range. It has a capacity of 11.6Ah, this will allow you a greater riding range. The battery comes with lockable holder to secure the battery to the bike frame and cable to run to motor controller. It's an extremely versatile battery that fits within the frame of the bicycle. It's neat and very light weight, using one of the most advanced lithium ion cells on the market.

Voltage: 36V

Capacity: 11.6Ah, 417 Wh

Size (cm): 32 (l) x 9 (d)

Weight: 2.6 kg

Cells: PANASONIC 2900mAh

Configuration: 40 cells, 4P10S

Battery: \$600

Charger: \$100

36V 14AH TIGER SHARK BATTERY

This 36V battery is an elegant solution for people who want a balance between great range and a slim pack that mounts on the down tube within the frame of the bicycle. We've filled this nice mould with PANASONIC 3500mAh cells to create a small battery that is packed with power. These cells have the highest power to weight ratio on the market and a high 3C level of discharge so this battery is well equipped to run even up to 1000W motors. With over 500Wh of power stored in this battery you can be ensured of a long commuting range and with the battery within the frame the handling will be as good as you can get with an electric bicycle.

Voltage: 36V

Capacity: 14Ah, 504 Wh

Size (cm): 34 l x 9.5 h x 7.5 w

Weight: 3.4 kg

Cells: PANASONIC 3500mAh

Configuration: 40 cells, 4P10S

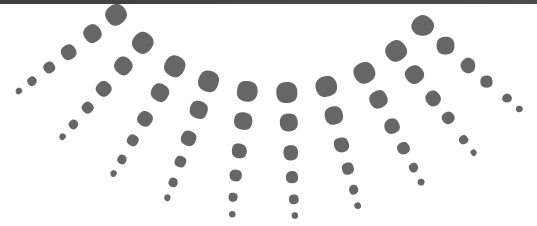
Battery: \$770

Charger: \$100

\$770



Batteries



36V 21AH TIGER SHARK BATTERY



This is a crazily high capacity battery that sits in the frame of a bicycle. It mounts on the down tube and only with new mould design and high capacity and high discharge 3500mAh cells from PANASONIC has it been possible to create such a battery. This battery likely far exceeds any riders needs for commuting distance but if you are someone who wants to push travelling range up to around the 100km mark then this may be your ideal choice.

- Voltage: 36V
- Capacity: 21Ah, 756 Wh
- Size (mm): 34 l x 13 h x 7.5 w
- Weight: 4.6 kg
- Cells: PANASONIC 3500mAh
- Configuration: 60 cells, 6P10S
- Battery: \$1040
- Charger: \$100

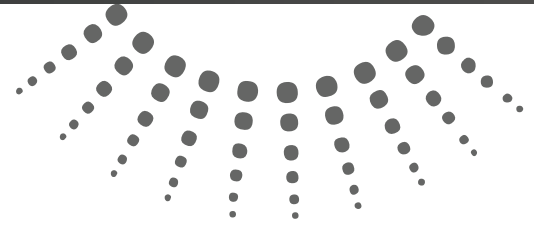
36V 11.6AH RACK BATTERY

This is a 36V 11.6Ah rack battery that uses PANASONIC cells. It has a very nice design, it's sleek and flat and on the front there is a controller box so that the controller can be neatly hidden away. It also has an integrated rear tail light. This battery is a great option for step through bicycles. Its light and sturdy and PANASONIC are the best in the business when it comes to making high discharge lithium ion cells for electric bicycles.

- Voltage: 36V
- Capacity: 11.6Ah
- Size (cm): 34 x 16 x 4.5cm
- Weight: 3kg
- Cells: PANASONIC 2900mAh
- Configuration: 52 cells, 4P10S
- Price: \$550
- Charger: \$100



Batteries



36V 17.5AH RACK BATTERY



This is a long range 36 volt rack battery that has a huge 17.5Ah capacity. It's suited for people with very long commutes. It has a very nice design, it's sleek and flat and on the front there is a controller box so that the controller can be neatly hidden away. The battery comes with a custom double layered rack. It also has an integrated rear tail light. This battery is a great option for step through bicycles. Its light and sturdy and PANASONIC are the best in the business when it comes to making high discharge lithium ion cells for electric bicycles.

Voltage: 36V

Capacity: 17.5Ah

Size (cm): 34 x 16 x 4.5cm

Weight: 3.6kg

Cells: PANASONIC 3500mAh

Configuration: 52 cells, 5P10S

Charger: \$100

48V 10.5AH TIGER SHARK BATTERY

This is a neat battery that fits within the frame of the bicycle and is used for high power 48V electric bicycle applications. It is coupled often with our 1000W hub or mid-drive motor kits. It allows a range of approximately 25km. It uses the latest high discharge 3500mAh cells from PANASONIC. These have a 3C rating so can run high power applications. The battery comes with a holder that mounts to a bicycle's down tube. It is easily removed and is lockable. It's a great battery that is very common for running 1000W hub motors. It's lovely small size fits within the vast majority of bicycle frames.

Voltage: 48V

Capacity: 10.5Ah, 504 Wh

Size (cm): 34 l x 9.5 h x 7.5 w

Weight: 3.6 kg

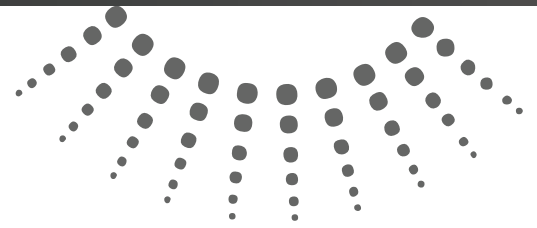
Cells: PANASONIC 3500mAh high discharge 3C rating.

Configuration: 40 cells, 3P13S

Charger: \$100



Batteries



48V 17.5AH TIGER SHARK BATTERY



\$1040

This is the highest capacity battery available on the market currently that runs at 48V and mounts within the frame of the bicycle. It has a huge 17.5Ah of storage capacity. No expense is spared on this battery, it uses the latest 3500mAh high discharge cells from PANASONIC and we've tested it with 2000W motors with great results. If you want power and range and want to mount a battery within the frame of your bicycle then this is likely the best lithium ion battery you'll be able to find.

Voltage: 48V

Capacity: 17.5Ah, 840 Wh

Size (cm): 34 l x 13 h x 7.5 w

Weight: 4.8 kg

Cells: PANASONIC 3500mAh high discharge 3C rating.

Configuration: 65 cells, 5P13S

Charger: \$100

48V 14AH RACK BATTERY

This is a rack battery that is used for high power electric bike applications. It uses the newest 3500mAh PANASONIC cells with a high 3C discharge ability. It's a neat rear rack option for people using electric conversion kits upwards of 1000W. It comes with an integrated rear light, a custom double layered carrier rack with lock and a controller box that mounts at the front of the rack to neatly hold the motor controller.

Voltage: 48V

Capacity: 14Ah, 672 Wh

Size (cm): 34 x 16 x 4.5cm

Weight: 4 kg

Cells: PANASONIC 3500mAh high discharge 3C rating.

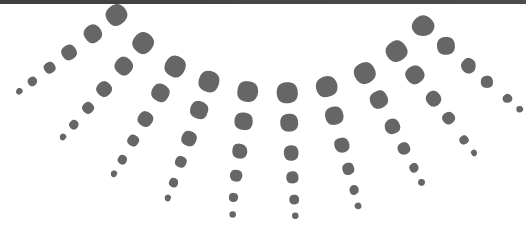
Configuration: 52 cells, 4P13S

Charger: \$100



\$380

ELECTRIC BIKES



ELECTRIC ORBEA CARPE 30



\$2200

The CARPE 30 from ORBEA is one of the sweetest flat bar road bikes around. It's lovely and simple with a single front chain ring and deep V rims. The colour options are very stylish, available in green/red and beige/blue. ORBEA's bikes are all made in Spain and the frame geometry is exquisite.

Motor: 200W - upgradeable

Battery: 36V 9Ah tube - upgradeable

Speed: 30km/h

Range: Approximately 40km but depends on how much you pedal

Gears: SHIMANO Internal 7 speed front chain ring

ELECTRIC 1500 WATT FATBIKE

The Cracker from PROGEAR is our pick of the fat bikes on the market. This Cracker is very well priced and it works fantastically with our high power Fat Bike kits. We have a special 1500W motor that goes on the rear and we use a top of the range PANASONIC 48V 17.5Ah Tiger Shark battery that mounts within the frame.

Motor: 1500W

Battery: 48V 17.5Ah

Speed: 50km/h

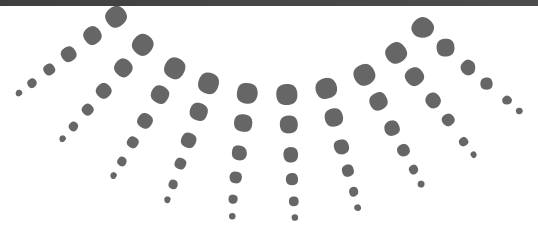
Range: Approximately 25km but depends on how much you pedal and how deep or hard the sand is

Gears: SHIMANO 7 speed

\$1690



SOLAR BIKE RANGE



ELECTRIC 1000W BEACH CRUISER



\$2250

This is the Skull & Crossbones beach cruiser that we've chosen to electrify with our high power 1000W kit – it can also be done with other powered kits. It's a very comfortable cruiser bike runs very well with the electric conversion. It suits people with tattoos and limited teeth.

Motor: 1000W

Battery: 48V 14Ah or 17Ah

Speed: 42km/h

Range: Approximately 30km but depends on how much you pedal

Gears: SHIMANO Internal 3 speed Nexus

ELECTRIC AVANTI DISCOVERY

AVANTI have got it just right for us with making a bicycle suitable for conversion for a great number of people. This hybrid bicycle is extremely comfortable, the suspension forks and suspension seat pole combined with the upright riding position make even the longest commute pain free. The electric conversion kits suit this bicycle well and either a front or rear mini-motor with any of the batteries that can be mounted within the frame allow us to adjust personal preferences with riding range. This bicycle is also available in a ladies' style.

Motor: 200W - upgradeable

Battery: 36V 9Ah tube - upgradeable

Speed: 30km/h

Range: Approximately 40km -100 km depending on battery

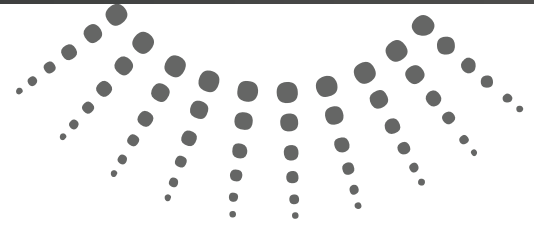
Gears: SHIMANO 21 speed

Sizes: s/m/l/xl

\$1690



SOLAR BIKE RANGE



ELECTRIC LEKKER JORDAAN



The LEKKER Jordaan is a superbly comfortable ladies' bicycle that has that nice Dutch style to it. The bicycle can easily be converted to electric with our conversion kits and it gets transformed into a very elegant electric commuting machine. It's worth taking one of these bicycles for a test ride, the comfort over other similar models is quite striking.

- Recommended motor:** front mini-motor
- Recommended battery:** 36V 11Ah or 17Ah rack battery
- Colours:** Pastel green, pastel blue, black and candy red
- Gears:** Internal 7 speed
- Frame:** Aluminium
- Sizes:** Medium (155cm – 175cm) and Large (175cm – 195cm)

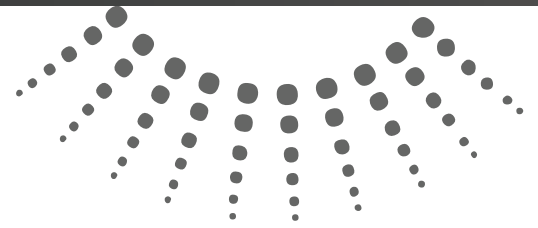
ELECTRIC LEKKER MEN'S SPORTIEF

Lekker made a nice range of Dutch bicycles. This is the men's Sportief model. It is an extremely comfortable bike to ride and is common with riders who want style and comfort. The three speed internal hub gear is ample for all needs when combined with the motor.

- Motor:** Front mini-motor
- Battery:** 36V 9Ah or 36V 11.6Ah tube battery
- Colours:** Olive green, deep blue, black or silver
- Sizes:** S/M – 155 – 175cm or M/L – 170 – 190cm
- Gears:** 3 speed SHIMANO nexus internal hub



SOLAR BIKE RANGE



GOMIER TRICYCLE



Our tricycles are made using the Solar Bike conversion kits and the gomier tricycles. The tricycles are available in blue, red and black and in single speed, 3 speed internal hub (recommended) and 6 speed. They are available with 20", 24" and 26" rims. 24" is probably the most common size that fits people but if you're quite small or very large then you can select either the 20" or 26" model. There is also a single speed industrial trike for carrying heavy loads.

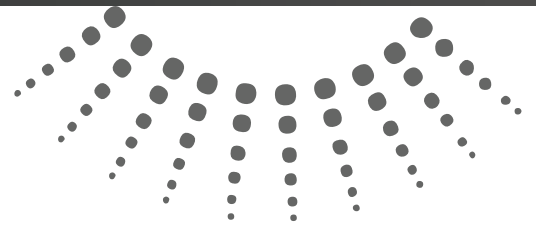
Battery: Panasonic 9Ah 36V (upgradeable)

Tricycle: Gomier 20", 24" or 26". Red, blue or black.

Gears: single speed, three speed internal hub or 6 speed

Motor: SOLAR BIKE mini-motor

Frequently Asked Questions



How far and how fast can I go?

Approximately 30 - 40km with light pedalling at a speed of approximately 30km/h using the 200W motor and 9Ah battery. You can get around 80-100km range if using the 21Ah battery. You can pedal faster and further than this of course - but not with electric power. Higher powered kits will go faster but will have a decreased range. A larger capacity battery will increase your range.

Can I ride the bicycle without any motor power?

Yes, the motor free-wheels. However, you add 6-8kg with an electric kit so it is heavier and harder to pedal. An electric bicycle performs best when both pedal power and motor power are used.

I don't want to pedal much and live in a hilly area, how much will the motor help?

You will be amazed! There is no mountain too high.

Does the battery have a memory effect? how often should I charge?

The batteries do not have a memory effect but you will damage it if you flatten it regularly - just like a car battery. Aim to not drop below 20% capacity on a regular basis. You should re-charge the battery if you ride over 5-10km. You should remove the battery from the bicycle and charge the battery once every 2 months if not in use. Always turn the switch off as a little amount of power will drain into the motor controller otherwise.

Does the battery charger turn off once the battery is fully charged?

Yes. You will see the charger light turn from orange to green when fully charged. It's ok to leave it connected but it's better to disconnect the charger and turn the power off at the mains.

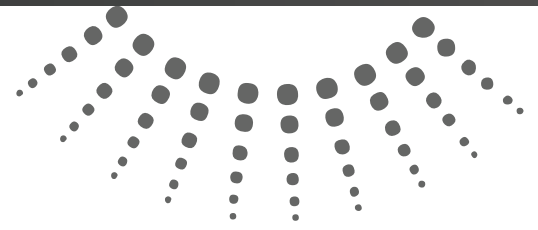
Can you pedal to recharge the battery?

The simple answer is no, not with our kits. The long answer is yes it's possible but it's not practical. The maximum power you can gain from pedalling is straight to the wheel. If you pedal to charge the battery then use the battery to power the motor you will lose about 20-40% of your pedalling energy; it's far more efficient to pedal straight to the wheel. It's possible to regenerate some lost energy through braking. Regenerative braking works by reversing the current flow by applying a load to the motor to recharge your battery when you are going downhill or when you are braking. It works best with a large mass slowing from high speeds to low speeds (eg. from 200 km/hr to 20 km/hr) so it can be effective in cars and often stated to be able to provide about 10% more travelling distance. It is not so useful with bicycles due to lower speeds and weight and from our testing we've only ever seen up to 1.5% over a 30km ride (about 0.5km). The requirement to have extra cables, gauges, the abnormal feel of electric braking, the inability for a regular lithium ion battery to re-charge at the rates produced by the motor and the instability of regenerative controllers far outweigh the 500m benefit that's rarely attained.

Are the electric components water-proof?

Yes. Riding in storms is no problem. It's not good to leave them out in the rain though.

Frequently Asked Questions



[Are electric bicycle legal and do I need a license?](#)

Laws are susceptible to change and certain states may implement their own restrictions or allowances on certain roads. Individuals should contact their state authority if unsure but as of December 2011 the law more or less states:

“An electric bicycle that does not exceed 200W maximum power output is exempt from registration and compulsory third party insurance. Electric bicycle riders are required to adhere to the same road rules as bicycles and have the same rights and responsibilities. You can ride an electric bicycle on all roads and paths, except where bicycles are specifically excluded. You do not need a driver's licence to ride an electric bicycle.”

[What size rim do I need on my electric conversion kit?](#)

Most mountain bikes have rims with a diameter of 26" or 27.5" and most road or hybrid bikes have rims of size 700c. The best way to check is to look carefully on the tyre, the size should be printed on there.

[How do I know how much battery life I have left, do you have battery gauges?](#)

There are gauges on the batteries but it is difficult to accurately measure the state of charge of a battery. There are basic gauges that measure battery voltage and can give you a rough estimate but these work best with sealed lead acid batteries and only give a rough guide with our batteries. Lithium ion batteries discharge quite evenly from full to empty so power will not change much throughout your ride and voltage drops are minimal. Generally speaking (with a 2A charger), it takes 5 hours to fully recharge a 10Ah battery from flat so monitor the recharge time and estimate how flat your battery has become. It's good practice to try not to let the battery drop below about 20% capacity and definitely don't let it go to dead flat repetitively. If you ride the battery until flat you will not likely feel a drastic change in power output, power will cut out when you're nearly empty. If this happens get off your bike and turn off the switch to avoid it discharging further and risking battery damage. A couple of rides home with no power and you will figure out your range pretty quickly.

The best gauge we've been able to find is called the Cycle Analyst (Stand Alone Model, CA-SA). This gauge measures the power that flows between the battery and controller, it measures many things such as W, A, Wh, Ah, etc... Read through their site for more information. They cost about \$150 and come from GRIN TECHNOLOGIES in Canada.

[What is the warranty?](#)

There is a 1 year warranty on all electric components. Any fault that could occur will most likely appear within the first week. After this there are rarely any problems and no maintenance needs to be performed.