



POLARIS
eBikes

POWERED BY
VANTAGE
THE FREEDOM OF POWER

2014 MODEL V2/V2 ST :PUSHING THE TECH FORWARD_



Model: EV506PH-BLK



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The Polaris® eBike motor system is comprised of:

1. BioSync™ Motor/Controller
2. ProRide™ Lithium Battery System
3. Information Center Dashboard 2.0
4. Ergonomic Custom Throttle
5. ARC Regenerative Braking

BioSync™ Motor Technology

The BioSync Motor System utilizes a proprietary smart controller and advanced sensing technology that works to mimic the natural riding motion of a cyclist. The result is a smooth and battery efficient ride. The variable wattage output ranges from 60W to 1000W peak to give the rider ideal power for the terrain. Whether it be max power for hill climb, or battery management for long range, BioSync provides the most advanced power management in the industry.

Choose Your Assistance Level, Range and Speed

The Bio Sync motor offers 6 different modes. Press the Assist Button (A) until the desired assistance level is reached.

LEVEL	ASSISTANCE PROFILE
-2	High wattage battery regeneration and trainer mode
-1	Capturing excess energy for battery regeneration
0	No pedal assistance / throttle enabled
1	Eco-mode to maximize battery efficiency and range / throttle enabled
2	Utility riding mode for all-around pedal assistance / throttle enabled
3	High-speed pedal assistance / throttle enabled

Pedal Assistance Distance Range/Speed

- Attainable pedal assisted range is up to 50 miles (Mode 1)
- Throttle enables pedal-free riding up to 20 MPH

► OUR COMPONENT PARTNERS



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► EV MOTORS TECHNICAL FEATURES

BioSync™ Motor Unit:

- Rear hub 1000W peak motor
- EVantage Smart Controller
- Pedal Assistance motor support up to 20 MPH
- Throttle power control up to 20 MPH
- Motor:
 - + Rated 60W–750W nominal, Peak 1000W
 - + Torque: 40nm nominal / 50nm peak
- Sensors:
 - + Current output
 - + Pedal speed
- BioSync™ Motor Weight: <11.46 lbs
- BioSync™ Motor is replaceable
- Thumb throttle usage up to 20 MPH

ProRide™ Battery Pack

- 44V 6Ah Lithium ProRide™ Battery (UL Listed)
- 1 Battery version: Inframe
- Size of Inframe battery:
 - + (H) <15.03" x (L) <3.85" x (W) <4.72"
- The standard battery version is available in black
- On/off button; State of charge is shown directly on the battery pack via 3 color LED
- Up to 1000 recharge cycle life
- Battery weight: 9.7 lbs
- Battery comes with key to lock onto bike



► INFORMATION CENTER DISPLAY

- Assistance levels (A): Eco (maximum range), Utility (standard), High-speed (maximum assistance)
- Info display (i): Odometer, Trip distance: miles or kilometers
- Battery status level
- Size: (W) 3.81" x (H) 1.88" x (D) 1.37"
- Weight: <.33 lb
- The Information Center Display is replaceable

Automatic Smart Charger:

- Charge the battery by plugging the battery charger cord into the AC outlet
- Supply voltage: 110V - 120V (AC)
- Charging time: max. 4-6h
 - + Size: (L) 5.9" x (W) 3.2" x (H) 1.87"
 - + Weight: <2.2 lbs
- On/off automatic maintenance mode

Valid for all EV eBike System components:

- Comply with UL battery safety norms
- Operating temperature: 23°F...104°F
- Storage temperature, determined by extreme battery charge range: 14°F...122°F

IC Dashboard 2.0

IC Dashboard 2.0 provides the rider with vital statistics about their ride and the eBike. Ride information (Speed, Battery Level, Regen Power, Assistance Level, Trip Distance, and Odometer), and on board diagnostics (Fault codes to easily determine any customer service needs) are available on all models.



► WARRANTY:

- Frame: *Lifetime*
- Electrical components: *1 year*

Aftermarket service: Overnight replacement parts available for motor, display and battery.

All components outlined are built with quick disconnect plugs for easy parts replacement and are compliant with international electrical standards.



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