



INNKR eDrive System

HUB MOTOR SYSTEM

Cycle S/ST



Ssst..
<50dBA

50 Nm
Max. torque

Smooth, lightweight and quiet, the Cycle ST is the perfect choice to get around the city or enjoy leisurely rides.

| | |
|-------------------|-----------------------|
| Application | eCity/eUrban |
| Rated Power | 250/350 W |
| Maximum Torque | 45/50 Nm |
| OLD | 142/148 mm |
| Weight | 1.9/2.0 kg |
| Torque Sensor | Optional |
| Waterproof Rating | IP65 |
| Certification | EN15194/RoHS/ISO13849 |

Panda



Compact
87.6*51.6*25.3mm

150g
With wiring harness

The versatile small controller integrates comprehensive eBike functions and reserves interfaces for future extended functions.

| | |
|-------------------|-----------------------|
| Rated Voltage | 36/48 V |
| Rated Power | 250/350/500 W |
| Maximum Current | 14/16/18 A |
| Communication | CAN |
| Waterproof Rating | IP65 |
| Certification | EN15194/RoHS/ISO13849 |

Functions

| | |
|---------------|---------|
| Walk Mode | 6 km/h |
| Light Control | Support |
| Turning Light | Support |
| E-Brake | Support |
| Throttle | Support |

| | |
|-----|---------|
| MMW | Support |
| IoT | Support |

TS12



Torque Sensor

| | |
|------------------------|-----------|
| Torque Measuring Range | 0.5~80 Nm |
| Cadence Signal Pulse | 36 r |
| Bottom Bracket Width | 68/73 mm |
| Waterproof Rating | IPX5 |

MID MOTOR SYSTEM



Oxygen Comfort



Ssst..
<50dBA

60 Nm
Max. torque

This agile, versatile, and quiet motor is ideal for commuting to work, leisurely outings, or long excursions. It provides responsive support at the right moment and makes riding a breeze.



Oxygen Pro



Individual
Riding modes

80 Nm
Max. torque

As the perfect choice for demanding MTB eBikers, especially with its smart functions, it delivers ultimate performance and efficiency with utmost control and agility.



Oxygen Plus



10ms
Direct start

110 Nm
Max. torque

The Oxygen Plus provides direct start and robust support for e-cargo bikes, with top speed adjustment 45km/h for S-Pedelec.

Oxygen

Comfort

Pro

Plus

| | | | |
|----------------------------|-----------------------|-----------|---------------|
| Application | eCity eTrekking | eMTB | eCargo |
| Dimension | 196*124.6*137.1 mm | | |
| Rated Voltage | 36/48 V | | |
| Speed Limit | 25/45 km/h | | |
| Maximum Torque | 60 Nm | 80 Nm | 110 Nm |
| Weight | 2.9 kg | 2.9 kg | 3.2 kg |
| Rated Power | 250 W | 250/350 W | 250/350/500 W |
| Maximum Power | 600 W | 600 W | 750 W |
| Maximum Power Assist Ratio | 600% | | |
| Max. Efficiency | >85% | | |
| Noise | <50 dBA | <50 dBA | <55 dBA |
| Shaft Standard | ISIS | | |
| Communication | CAN | | |
| Walk Mode | Support | | |
| Decoupling | Support | | |
| Light Voltage | 12 V | | |
| Chainwheel | 32~52 T | | |
| Waterproof Rating | IP65 | | |
| Certification | EN15194/RoHS/ISO13849 | | |

SS01



Speed Sensor

| | |
|-------------------|----------------------------|
| Output Signal | Digital signal (TTL level) |
| Sensing Distance | 2~8 mm |
| Voltage range | 0~5 V |
| Waterproof Rating | IPX7 |

DISPLAYS



DM07 DM02 BC202

| | | | |
|-------------------|--------------------------|-----------------------|-------------|
| Dimension | 77*53*44 mm | 64*48*15 mm | 80*36*27 mm |
| Rated Voltage | 36/48 V | | |
| Screen Type | 2.0" LCD | 2.0" LCD | 1.9" LCD |
| Communication | CAN | | |
| Mounting | Left, Φ22.2 mm | Middle, Φ25.4/31.8 mm | Top tube |
| Waterproof Rating | IP65 | IP65 | IP66 |
| Certification | EN15194/RoHS/CE/ISO13849 | | |

BATTERIES



IK520 IK780 Powermax

| | | | |
|-------------------|-------------------------|---------------|---------------|
| Dimension | 432*78*65 mm | 432*73*70 mm | 215*100*97 mm |
| Weight | 2.9 kg | 3.8 kg | 2.76 kg |
| Configuration | 13S 2P | 13S 2P | 13S 2P |
| Capacity | Max. 48V 11Ah | Max. 48V 16Ah | Max. 48V 10Ah |
| Power | 520 Wh | 780 Wh | 480 Wh |
| Type-C | - | - | DC 5V/1.5 A |
| LED Indicator | 5 LEDs with 2 colors | | |
| Dual Battery | Support | | |
| Communication | CAN | | |
| Waterproof Rating | IPX6 | IPX6 | IP65 |
| Certification | EN15194/EN50604/RoHS/CE | | |

INTELLIGENT CONNECT

Linokr App



Linokr APP establishes a direct connection between your eBike and the digital world with an IoT module. As the central control hub, it puts your eBike at your fingertips. You can keep your eBike up to date and enjoy riding with ever-growing features via over-the-air updates.

Diag Box



| | |
|------------------------|--------------------|
| Power Supply | DC 5V USB Type B |
| Communication Protocol | CAN/UART INNKR |
| Compatibility | INNKR Smart Device |

PRODUCT BROCHURE

INNKR eDrive System Introduction



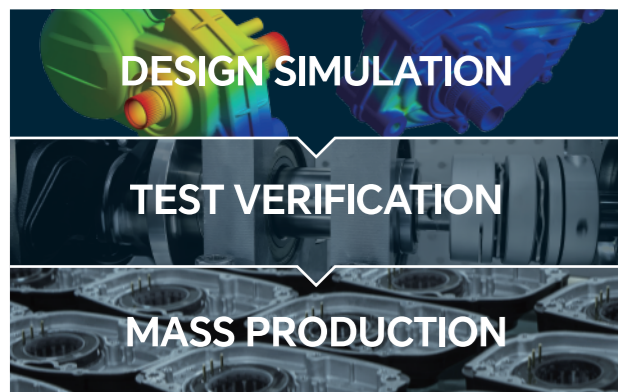


ABOUT INNKR TECHNOLOGY

INNKR Technology is a **full smart eDrive system provider for eBikes**, whether eCity, eTrekking, eMTB or eCargo.

With an R&D center & factory in Suzhou, INNKR Technology offers an **highly integrated, highly compatible, modular and smart eDrive solutions** for global eBike brands with innovative products and digital services, including mid motor, hub motor, controller, sensors, displays, batteries, IoT module, Linnkr app and B2B portal.

QUALITY, ALWAYS THE TOP PRIORITY



INNKR develops the eDrive systems with Automotive-Grade V Model Product R&D Process and insists on Lean production, ensuring high-quality reliable eDrive solutions for eBike brands.

What can the INNKR eDrive System empower you with?

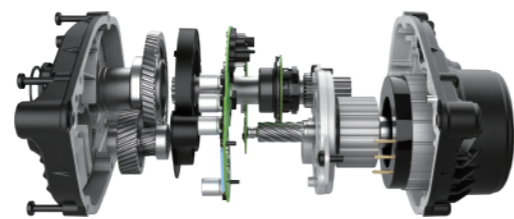


INNKR eDrive systems offer both hub motors and mid motors for various bike types. The deep integration of all components in hardware and software ensures a superior riding experience. Additionally, all common parts of the INNKR eDrive systems are interchangeable, enhancing compatibility and flexibility. All INNKR eDrive Systems support IoT connection. By simply adding an IoT module with sensors, you can transform your eBike into a fully connected system, enjoying ever-growing digital features that can be updated over the air via the Linnkr app.



INNKR eDrive System is able to ensure a quiet and peaceful riding experience through optimized design of the motor and gears, coupled with finely tuned software.

NATURAL RIDING PERFORMANCE



INNKR eDrive System can deliver superior natural riding performance thanks to a specially designed algorithm that relies on parameterized and visualized input and output from both the rider and the drive system via devices, rather than on unquantified riding feelings.

SMART MODE

With INNKR Smart Mode, the eDrive system automatically adjusts the assist ratio based on road conditions and rider input, without the need to manually switch riding modes.



IMPROVE RANGE BY 15%

INNKR optimized algorithms and deeply self-defined system software bring less power consumption, higher efficiency, thereby achieving a 15% improvement in range with the same battery capacity.

SMART CHARGING



Charging Indication

The display will turn on automatically while charging and indicate the charging status, remaining charge level, remaining charging time, and estimated range.

Battery Cycle Life

Notably, thanks to INNKR intelligently designed algorithm, the battery's cycle life remains unaffected by fast charging.

GEAR RIGHT ENJOY SMOOTH JOURNEY

enviolo AUTOMATIC INNKR eDrive system integrate enviolo eShift system seamlessly, automating your trasmission for smoother, simpler riding, you can set your desired cadence or gear via the display.

Automatic shift



Simply set your cadence on the display and the gears will automatically adjust, maintaining the proper gear ratio at all times.

Manual shift



Experience the joy of direct gear control, allows manual adjustment of its 9-speed gears whenever needed.

SMART EBIKING

Equipped with the IoT module, the eBike will be fully connected with enhanced riding experience. Riders can enjoy the ever-growing digital features updated via Linnkr app.

- eBike Tracking
- eBike Lock/Unlock
- Remotely Control
- Activity tracking
- eBike Info
- Charging reminder
- Firmware Updating
- ...



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INNKR拓氮科技



www.innkr.com



INNKR eBike Drive System