EVOKE MOTORCYCLES

2022 URBAN SERIES

EVOKE MOTORCYCLES

BATTERY

- **High density, air-cooled 10.0 kWh battery pack**
  - Nominal real world capacity
  - 100v system, charging station compatible
- **Automotive grade pack stability**
  - Extra long life and capacity
  - Dual terminal fusing protection
- **2000+ cycles**
  - Bi-weekly charging, 10+ years
- **IP67 Waterproof connectors**
  - High voltage quick disconnect for safety
- **Laser welding; secure and exceptional reliability**

RANGE

- **Up to 250 km in the city**
  - At 35 wh/km
- **Up to 175 km mixed riding (Highway and City)**
  - At 45 – 57 kw/km

*At 25 degrees C, no elevation, 75kg rider

CELL SAFETY

Automotive grade quality

- Super high density, high power discharge
- 2714897 prismatic lithium cells

Double terminal fusing

- Double the safety
- Vibration and shock resistant

BMS, SMART SYSTEM

Evoke ECU v2.0 connected

100+ sensors onboard

Overcurrent protection

Over charge protection

Over discharge protection

Temp protection

Short circuit and wire protection

Auto balancing

BMS restart function

Contactor protection

Audible alarm function

EVOKE MOTORCYCLES

POWER

- **20 kW peak power output**
  - <11 kW continuous
  - A1 license
- **200+ Nm of off-the-line torque, more than 600cc**
- **0 – 60 km/h, <2.5s**

FAST CHARGING, ANY OUTLET AND PLUG

- Plug & play: smart integration with car chargers or home sockets **(110v – 240v)**
- Auto voltage detection
- Selectable charging speeds
- Sub zero temp mode charging
- 90 mins (30 – 80%) + autobalancing (Classic)

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MOTOR

- **Brushless DC, 3 phase, air-cooled 120v, 17” hub motor**
  - Peak 200+ Nm of torque
  - Co-developed 6” wide profile
  - Maintenance-free, noise-free, Direct-drive
  - 87%+ efficiency
  - 25kw power handling

INVERTER

- **FOC 120v Sine wave AC inverter, 800A phase amps**
- **CANbus connected with Hall positioning sensor**
- **Force air-cooled**
- **Ride-by-wire control system**
- **Extremely power dense, 10 kw/kg**
- **In-house developed**

EVOKE
MOTORCYCLES
365 RIDING;
ANYWHERE WITH ANYONE
Robust operating range, -20° to 55°C
Comfortable pillion seat and foot pegs
Carry weight 200 kg
WHEELS & TIRES, BRAKES
Dual Compound Tires
o Front & Rear
Dual 300mm front brakes
180 rear tire
o Ultra wide profile; maximum grip
Combined Braking System (CBS)
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REGEN

- Adds 10 – 15% more range
- Adds additional stopping power
  - Adaptive braking for road conditions

EASY HANDLING

- Simple to learn
- Wide lean angles
- Low center of gravity

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ECU

- Independent power
  - 8 hour battery backup
- Full power & safety control algorithms
- Charging system control
  - Sub-zero charging protection
  - Adaptive charging algorithms
- Lean angle + 100 other sensors onboard
- Onboard data-logging
- BT & Wi-Fi connectivity

CAN 2.0B

- Automotive standard communication
- Fully automated, fully integrated with every component

RIDER MODES WITH REVERSE

- City, Pro
- Reverse for parking convenience

12V BATTERY SYSTEM

- Low voltage fully Isolated
- Backup battery for diagnostics

SUSTAINABILITY

- Synthetic leather seats
- Battery recycling program, 2nd life

EVOKE MOTORCYCLES

URBAN S
AVAILABLE COLOURS

- WINE RED
- MIDNIGHT BLACK

URBAN CLASSIC
AVAILABLE COLOURS

- ROGUE RED
- OCEANIC BLUE
- GALAXY BLACK

PERFORMANCE

TOP SPEED	87 mph (140 km/h)
ACCELERATION	0 to 60km/h in 2.5 seconds
RATED POWER	11 kW / 20kW Peak
MAX TORQUE	86 lb-ft
MOTOR TYPE	Direct-drive high-efficiency, zero-maintenance hub motor
CONTROLLER	High-efficiency, 800A sine wave controller with regenerative braking
GEARING	Maintenance free direct drive

RANGE & BATTERY

CITY RANGE	250 km (156 miles)
MIXED RANGE	175 km (109 miles)
BATTERY TYPE	Lithium NMC
CAPACITY	10.04 kWh
BATTERY LIFE	Over 400,000 km (220,000 miles)
CHARGING	Classic: 90 min (30-80%) S: 180 min (30-80%)

STORAGE, WEIGHT & DIMENSIONS

CURB WEIGHT	179 kg (394 lbs)
CARRYING CAPACITY	200 kg (441 lbs)
WHEELBASE	1360 mm (54.4 inches)
LENGTH	2030 mm (81.2 inches)
WIDTH	710 mm (28.4 inches)
SEAT HEIGHT	780 mm (31.2 inches)
GROUND CLEARANCE	130 mm (5.2 inches)

CHASSIS, BRAKES & SUSPENSION

FRONT BRAKES	Dual disc, 4 piston hydraulic 300 x 5 mm
REAR BRAKES	Single disc, 2 piston hydraulic 220 x 4 mm
FRONT SUSPENSION	48 mm inverted fork, dual shock
BACK SUSPENSION	Rear monoshock
FRONT WHEEL	3.5 x 17 cast aluminium
REAR WHEEL	6.0 x 17 Built-in hub motor w/ cast aluminium wheel
FRONT TIRE	110/70-17
REAR TIRE	180/55-17