FC1:X

FC1·X REPRESENTS THE FUTURE OF RALLYCROSS

A GROUND-BREAKING NEW CAR WITH EXTRAORDINARY PERFORMANCE ABILITIES THAT WILL PROPEL THE VEHICLE FROM 0-60MPH IN 1.5 SECS

A FUTURISTIC-LOOKING BODY WITH AGGRESSIVE STYLING AND AERODYNAMICS, COMPATIBLE WITH INDIVIDUAL OEM SUV BODY SHAPES

1000 + PEAK BHP, ALL-WHEEL-DRIVE ELECTRIC SUV - THE MOST POWERFUL AROUND FOR RALLYCROSS

UP TO 3G ACCELERATION MAKES THIS ONE OF THE FASTEST AND MOST SPECTACULAR RACE CARS ON EARTH

DEVELOPED AND ENGINEERED BY FIRST CORNER. BUILT READY TO RACE BY YOUR TEAM. OPERATED BY YOU!

FC1·X VEHICLE SPECIFICATION

- TUBULAR CHASSIS MADE FROM HIGH-GRADE MATERIAL
- STEEL ROLLCAGE MADE FROM HIGH-GRADE MATERIAL
- CARBON COMPOSITE CHASSIS TUB
- CARBON COMPOSITE EXTRA SIDE PROTECTION FOR DRIVER AND BATTERY
- KEVLAR COMPOSITE WHEEL ARCH
- KEVLAR COMPOSITE FLOOR PROTECTION
- KEVLAR COMPOSITE MOTOR/TRANSMISSON BOXES FOR PROTECTION
- ALUMINIUM AND KEVLAR COMPOSITE FRONT/REAR SAFTEY CRASH STRUCTURE
- SPECIAL FITTING POINTS FOR OEM-STYLE BODY

DIMENSIONS

- LENGTH 4300MM
- WIDTH 2000MM
- HEIGHT 1500MM
- GROUND CLEARANCE 150MM
- WHEELBASE 2700MM

WEIGHT

- 1450-1550 KG DEPENDING ON SPECIFICATION

SPECIFIC BODY / AERO

- OEM-SPECIFIC BODY/TBD • FRONT AERO/TBD
- REAR AERO/TBD
- REAR DIFFUSER/TBD

FC1·X VEHICLE SPECIFICATION

MOTORS - MAGELEC

VOLTAGE [VDC] 600 ~ 800

4XPEAK TORQUE [NM] 225 /900 NM

4XPEAK POWER [KW] 187/ 748KW (1017 HP)

WEIGHT [KG] 23.5 / EACH

HIGH EFFICIENCY THROUGHOUT THE OPERATING RANGE (>96%)

IP67/IP6K9K ENCLOSURE

CLASS TO MAXIMISE RELIABILITY

COOLANT FLOW RATE [L/MIN] 8L COOLING LIQUID TEMPERATURE RANGE [°C] -30 ~ +80

MAX SPEED [RPM] 12,500

INVERTERS

DC VOLTAGE – OPERATING 100—800 VDC

DC OVERVOLTAGE TRIP 840 VDC MOTOR CURRENT PEAK 400 ARMS 208X244X92MM / 4.6L

WEIGHT 5,5 KG

OPERATING TEMPERATURE RANGE COOLANT WATER - 40 .. +80, (OPERATE TO ZERO 80..100) °C

POWERTRAIN COOLING

CFD-OPTIMISED COOLING SYSTEM OEM-SPECIFIC HEAT REJECTION

FC1·X VEHICLE SPECIFICATION

COCKPIT

FIA 8862-2009 CORBEAU CARBON SEAT / SEATS W. 6PT SAFTEY HARNESS

HEIGHT-ADJUSTABLE STEERING WHEEL WITH 4-INCH COLOUR SCREEN AND CONTROL BUTTONS

PEDAL BOX ADJUSTABLE FOR DIFFERENT DRIVER HEIGHT

MANAGEMENT AND INFOTAINMENT - MOTEC

CARBON COMPOSITE DASHBOARD AND MIDDLE PANELS

12 INCH COLOUR SCREEN WITH DRIVER AND CO-DRIVER INFORMATION

STEERING WHEEL WITH INTEGRATED 4-INCH DISPLAY

FC1·X VEHICLE SPECIFICATION

BRAKING SYSTEM - ALCON

STANDING PEDAL BOX WITH FRONT/REAR MASTER CYLINDERS
HYDRAULIC HANDBRAKE UNIT

FRONT
4-PISTON CALIPERS WITH 355MM X 32MM STEEL BRAKE DISCS

REAR
4-PISTON CALIPERS WITH 355MM X 32MM STEEL BRAKE DISCS

STEERING SYSTEM - DC ELECTRONICS

48V ELECTRIC POWER-ASSISTED STEERING

DAMPERS - R53 SUSPENSION

FRONT AND REAR DOUBLE WISHBONE MADE IN HIGH-GRADE STEEL WITH ADJUSTABLE CAMBER/CASTER, 300MM WHEEL TRAVEL

ADJUSTABLE FRONT AND REAR ANTI-ROLL BARS

RIMS - ROTIFORM

9 X 11 INCH SPECIFIC RIMS

280-705 R19 SPECIFIC RALLYCROSS TYRES

CHARGING - KEMPOWER

EMPOWER T-SERIES MOVABLE DC CHARGERS

FC1·X VEHICLE SPECIFICATION

BATTERIES

CELLS ESTIMATED MASS: 308 KG

MAXIMUM VOLTAGE: 865 V

ENERGY STORED: 51 KWH

MAX ALLOWED DISCHARGE POWER: 750KW

MAX ALLOWED CHARGE POWER: 100 KW

CHARGING INTERFACE: CCS-2

LIQUID COOLED

SAFETY FEATURES: FUSES, CONTACTORS, HVIL, HUMIDITY SENSOR, THERMAL EVENT DETECTION, VENTING VALVES

CERTIFICACIONS: UN38.3, FIA REGULATIONS CRASH TEST

FC1·X CONTACT

info@firstcorner.se

YOUTUBE

@fc1xofficial

DROPBOX

First Corner LLC
155 Jenny Dr
Salisbury, NC USA, NC 28146
United States

First Corner
c/o Olsbergs MSE AB
Bäckvägen 1
149 45 Nynäshamn, Sweden

FC1·X PARTNERS

FIRST CORNER

MSE

GPV TECHNOLOGIES

R53 ENGINEERING

MAGELEC PROPULSION

MoTeC

NEWATTEK

SADEV RACING TRANSMISSION

alcon

rotiform

KEMPOWER