

6 ft. 7.5 in. (2.02m) 7 ft. 4.5 in. (2.25m) 17 ft. 5.5 in (5.33m) 2 (Regular Cab)

(2.2m)



# **KT300e** Mine Utility Vehicle

# AUTOMATION AND TECHNOLOGY

Wireless telemetry capability to transfer carrier and BEV Data	Yes
Collision Avoidance Compatible	Yes
Camera System	Optional

## TRACTION MOTOR(S) & POWER CONVERSION SYSTEM

Motor Type (induction, brushless DC, etc...) Brushless permanent magnet

Number of Motors, Arrangement	Single motor, transfer case / drop box
Motor Rated Voltage	750V
Motor Rated Amps	270A max
Motor Rated Power (Continuous / Peak)	140kW / 250 kW
Motor Cooling Method	liquid
Power Conversion System Type	3 phase HV inverter / IGBT
Power Conversion System Input Voltage Range	750VDC
Power Conversion System Output Voltage Range	750V
Power Conversion System Maximum Current	425
Capable of regenerative braking?	Yes
Braking Resistor (Make / Model / Size)	60kW
Power Conversion System Cooling Method	Liquid

## SPEEDS (LOADED)

0% Grade (flat)	35 km/h (electronically limited)
5% Grade	35 km/h (electronically limited)
10% Grade	35 km/h (electronically limited)
15% Grade	35 km/h (electronically limited)
20% Grade	35 km/h (electronically limited)

RANGE (LOADED)	
On +20% Grade	21 km
On +15% Grade	32 km
On +10% Grade	40 km
On +5% Grade	51 km
On 0% Grade (flat)	80 km
On -5% Grade	indefinite - regen / braking resistor
On -10% Grade	indefinite - regen / braking resistor
On -15% Grade	indefinite - regen / braking resistor
On -20% Grade	indefinite - regen / braking resistor

240 Fielding Road, Lively, Ontario, Canada, P3Y 1L6 Tel. (705) 523-1621 Fax. (705) 523-0565 www.kovatera.com

# **GENERAL SPECIFICATIONS**

Height *
Width *
Length *
Seating Capacity (Including Operator) *

	5 (Crew Cab)
Inner Turning Radius *	14 ft. 8 in. (4.48m)
Outer Turning Radius *	24 ft. 11 in. (7.59m)
Gross Vehicle Mass (GVM) *	13000 lbs (5897 kg)
Deck Carrying Capacity *	2600 lbs (1200 kg)
Rear Deck Size *	Width = 6 ft 2 in. (1.9m) Length = 7 ft. 2.5 in. (2.2
Ground Clearance*	11.8 in. (301mm)
Wheel Base*	10 ft. 4 in. (3.32m)
Maximum Recommended Operating Grade*	20%
Noise Level (@ Operator's Seat)*	65 dBa
Operator's Compartment (Open Cab / ROPS / FOPS / Environmental Cab)*	ROPS / FOPS
Air Conditioning System	Optional
Maximum Ambient Operating Temperature	122 deg. F (50 deg. C)

\* Based on machine configuration

#### DRIVETRAIN

Front Axles
Rear Axles
Front Axle rating , Dynamic
Rear Axle rating, Dynamic
Front Differential Type
Rear Differential Type
Transmission (If Equipped)

Dana Dana 5000 kg. 5500 kg. Open/Limited Slip / No Spin Open/Limited Slip / No Spin Dana 360 drop box

# 

BRAKES	
Service Brakes	Full enclosed (Wet Disc) / Piston actuated
Secondary (Emergency) Brake	Fully enclosed, spring applied / hydraulic release ( SAHR ) wet disk brakes
Park Brake (D/Line or inter, wet or dry)	Fully enclosed, spring applied / hydraulic release ( SAHR ) wet disk brakes
CAN/CSA-M424.3-90 Certified	Yes

SA-M424.3-90 Certified

TIRES	
Tire Size	275/80R20
Radial or Bias Ply	Radial
Tire Rating (Number of Ply/ Star Rating)	22 Ply
Thread Type (Smooth or Lug)	Lug





KT300e Mine Utility Vehicle

#### BATTERY

Cells Chemistry	Lithium Nickel Manganese Cobalt oxide
Cells Rating	126Ah (Energy cells) to 108Ah (Power cells) optional
Pack voltage	650V nominal
Pack energy capacity - total	77kWh (Energy) to 67kWh (Power) optional
Pack energy capacity - useable	61.6 kWh to 53.8 kWh
Pack safety systems	Over/undervoltage, over/under temperature, overcurrent, welded contactor check, over-discharge
Cell cooling method (liquid or air)	Liquid
Operating temperature limits (ambient)	-20C to 50C
Battery Pack Weight	620kg
Battery Pack Dimensions	330mm x 840mm x 2300mm
Battery Pack Dimensions EXPECTED LIFE	330mm x 840mm x 2300mm DEPTH OF DISCHARGE (%) / CYCLE LIFE (no.)
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,	DEPTH OF DISCHARGE (%) / CYCLE LIFE (no.) 100% DOD: 3000 (Energy) – 4000 (Power)
EXPECTED LIFE	DEPTH OF DISCHARGE (%) / CYCLE LIFE (no.) 100% DOD: 3000 (Energy) – 4000 (Power) 80% DOD: 4000 (Energy) -10000 (Power)
EXPECTED LIFE Charging Current (A), Voltage (V)	DEPTH OF DISCHARGE (%) / CYCLE LIFE (no.)           100% DOD: 3000 (Energy) – 4000 (Power)           80% DOD: 4000 (Energy) -10000 (Power)           140A / 700V (energy) to 420A / 700V (power)
EXPECTED LIFE Charging Current (A), Voltage (V) Maximum Charging Rate (kW)	DEPTH OF DISCHARGE (%) / CYCLE LIFE (no.)           100% DOD: 3000 (Energy) – 4000 (Power)           80% DOD: 4000 (Energy) -10000 (Power)           140A / 700V (energy) to 420A / 700V (power)           100kW (energy) to 275kW (power)
EXPECTED LIFE Charging Current (A), Voltage (V) Maximum Charging Rate (kW) Charge Rate (i.e. C2)	DEPTH OF DISCHARGE (%) / CYCLE LIFE (no.)           100% DOD: 3000 (Energy) – 4000 (Power)           80% DOD: 4000 (Energy) -10000 (Power)           140A / 700V (energy) to 420A / 700V (power)           100kW (energy) to 275kW (power)           1C (energy) to 2C (power)

#### CHARGER

Equipped with Onboard Charger Onboard Charger: Rating

Onboard Charger: Input Voltage/ Phases Onboard Charger: Connector Type

Equipped with Offboard Charging Capability

### Yes

25 kW onboard standard (optional 50kW onboard)

400-600-1000 VAC, 3ph, 50-60Hz

Meltric, optional SMS 8340 Series Uni-Lock Lever-Action, other options available, J1772 level 2

Yes - optional, CCS Type 1 / Type 2