

PMP



Marmot-EV

Prairie Machine & Parts | A World Leader in Supplying Underground Mining Equipment

Marmot-EV[®] - The Game Changer

Easy to Adopt electric drive technology

The MARMOT-EV[®] is a robust electric 4 wheel drive truck that is built for demanding underground applications



Open Air Crew Cab Configuration Shown

Standard Features

- Mine Duty to operate in hard mining environments
- Designed specifically for ramp access, hard rock mining
- Handles 20% grade @ full payload for a 2.5-km vertical rise
- Recharge to 65% in an hour, fully charged in two hours
- Regenerative Braking
- 4-Wheel Drive
- Regular and Crew cab configurations - Open or Closed Cab
- Heating and air conditioning*

Safety Features

- Manufactured to Quality Assurance Standard ISO 9001:2008
- Zero emissions
- Certified ROPS
- Certified FOPS*
- SAHR (Spring Applied Hydraulic Released Brake)*
- Bright LED Lighting
- Back-up Camera*

Service / Maintenance Features

- Patented modular drive system provides low cost operation
- Regenerative braking reduces brake wear and maintenance
- Rapid Charge* on crew change and lunch breaks for 24/7 operation
- Proven Reduction on maintenance & operation costs (compared to diesel equivalent)
- Vehicle Diagnostics Tools*

* Optional Feature

Zero Emissions. Zero Compromises.



CLEAN AND QUIET

- REGENERATIVE BRAKING reduces brake wear and maintenance
- Use waste ENERGY to CHARGE the batteries
- QUIET electric motors
- ZERO Emissions
- SAHR (Spring Applied Hydraulically Released) Brake (Optional)
- ONBOARD CHARGING (600v and more)
- CUSTOMIZED PLUGS (customer selected)

SAFE AND DEPENDABLE

- 4-WHEEL Drive ½ Ton vehicle
- CLEAN AIR
- REGULAR & CREW CAB configurations
- SAFE LiFePo Batteries
- ROPS (Roll Over Protection)
- FOPS (Fall Protection - Optional)
- ZERO Fuel Costs

BUILT TO LAST

- HARD ROCK READY
- HEATING & AIR CONDITIONING (Optional with Enclosed Cab Version)
- FULLY LOADED - Climb 2.5km vertical elevation at 20% grade
- MODULAR CONTROL SYSTEM (Patented) provides:
 - LOW Maintenance
 - INCREASED availability

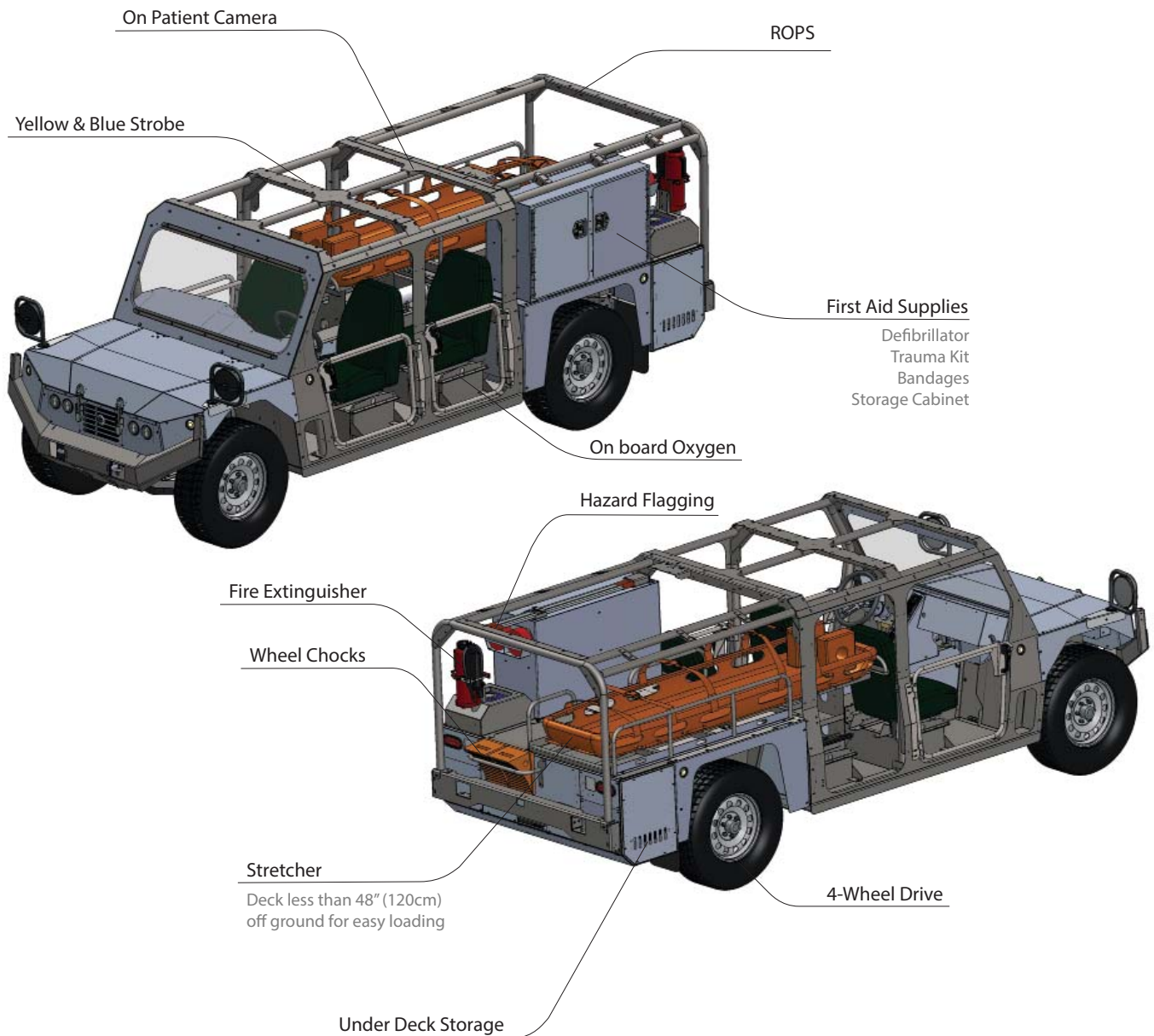


Tailored for your needs

Customized for each application

Our electric vehicle designs provide a full spectrum of platforms that can meet the majority of your underground transportation needs. We offer a full product line of electric vehicles; 4 passenger electric transport, 4x4 electric trucks, 4x4 electric transport vehicles, and many more configurations.

For example: 4x4 Mine Rescue Ambulance configuration.



Mine Rescue Configuration

Modular Vehicle Control System



Standard Features

- Mine Duty to operate in hard mining environments
- Designed specifically for ramp access, hard rock mining
- Handles 20% grade @ full payload for a 2.5-km vertical rise
- Regenerative Braking

Rugged Construction

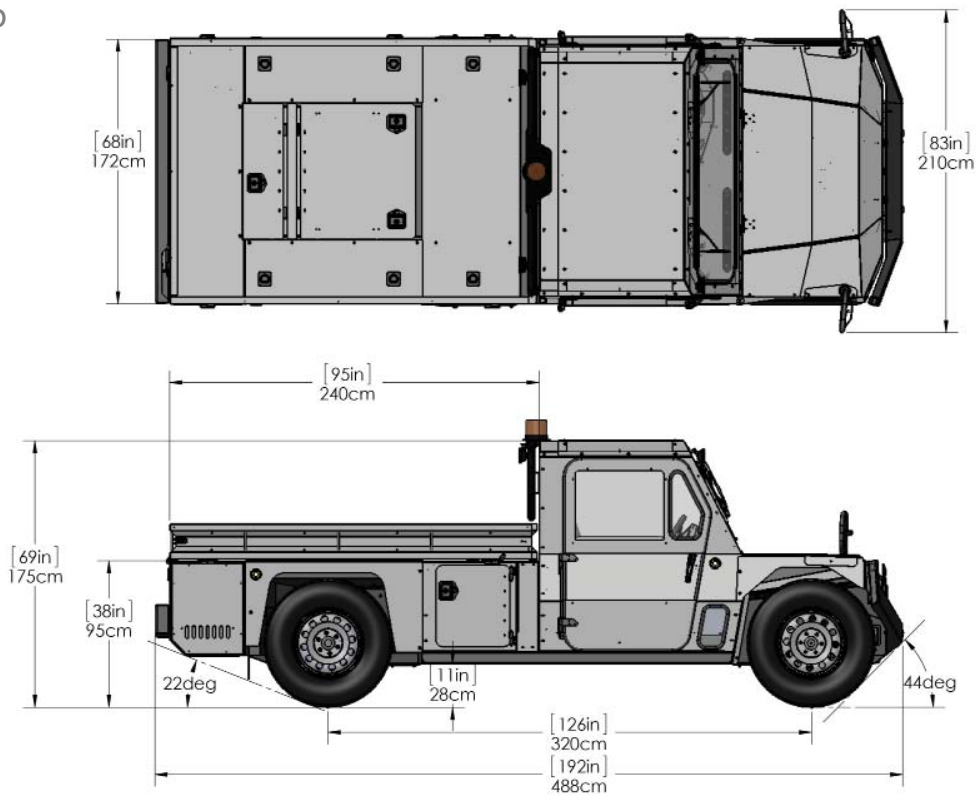
- 4-Wheel Drive ½ Ton vehicle
- Manufactured to Quality Assurance Standard ISO 9001:2008
- Regular & Crew Cab configurations
- ROPS (Roll Over Protection)
- FOPS (Fall Protection - Optional)

Modular Vehicle Control System

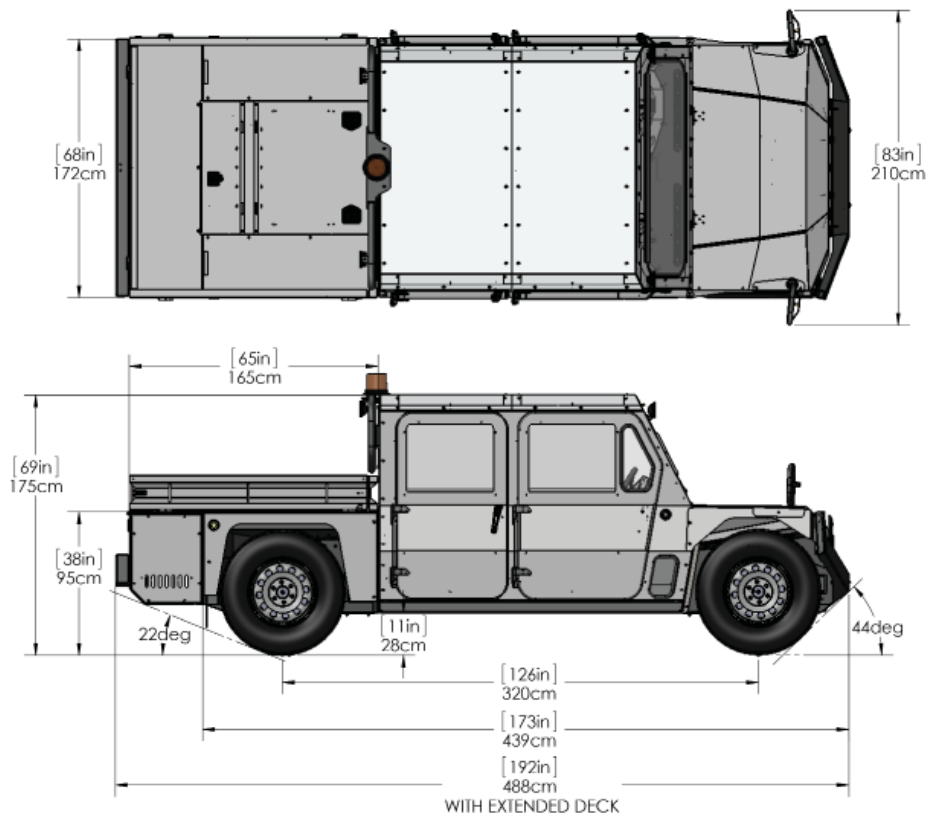
- Low cost operation
- Less downtime for repairs
- Keyed connections - simple Installation
- Vehicle diagnostic tools available
- Module Swap Program
- ZERO Fuel Costs

Marmot-EV

Regular Cab



Crew Cab



Specifications

Specifications

Product Dimensions		Drive	
Passengers	2 (Reg Cab) 4 (Crew Cab)	Drive	4WD
Wheelbase	126 in (320 cm)	Drive train	Fixed gear ratio - Direct Drive Electric
Length	173 in (440 cm)	Max Speed	37 MPH (60 km/h)
Width	68 in (172 cm)	Max Range (Unloaded)	80 miles (130 km)
Height	69 in (175 cm)	Max Range (Payload)	52 miles (84 km)
Ground Clearance	11 in (28 cm)	Max Payload	2400 lbs (1090 kg)
Turning radius	20 ft (6.10 m)	Max Towing	7725 lbs (3500 kg) with trailer brakes 2000 lbs (907 kg) without trailer brakes
Weight	5000 lbs (2268 kg)	Power	128 hp (95 kW)
GVWR	7400 lb (3356 kg)	Torque	540 lb ft (732 Nm)
Tires	P265/70R17	Brakes	4-wheel - regenerative - hydraulic disc
Electrical			
On-Board charger	110V - 240V single phase 600V 3 phase option		
Charging (Rapid)	65% in 1 hour Full charge in 2 hours		

Grade Performance & Energy Consumption Costs

Grade(%)	0	2	4	6	8	10	12.5	14	16	18	20	25
Max unloaded speed (km/h)	60	60	60	60	60	56	49	45	41	37	34	28
Max unloaded range (km)	130	78	56	44	36	30	26	24	22	20	18	14
Energy Cost Per km (unloaded)*	0.02	0.04	0.05	0.06	0.08	0.09	0.11	0.12	0.13	0.15	0.16	0.19
Max loaded speed (km/h)	60	60	60	55	47	41	35	32	29	26	24	20
Max loaded range (km)	84	52	38	30	24	22	18	16	14	14	12	10
Energy Cost Per km (loaded)*	0.03	0.05	0.07	0.09	0.11	0.13	0.16	0.17	0.19	0.21	0.23	0.27

* Assumes 0.10 per kWh electricity cost

For more information contact your PM&P representative at 1.888.933.4812

ISO | **9001:2008**
CERTIFIED

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Prairie Machine & Parts Mfg. Partnership

3311 Millar Avenue

Saskatoon, SK S7K 5Y5 Canada

888.933.4812

pmparts.com