Expedition vehicle MD71hv MB Zetros 6x6
Chassis

- Mercedes-Benz Zetros 2733 6x6
- Extended cab
- Wheel base 4745 mm + 1450 mm (186.8” + 57.1”)
- Engine performance 240 kW / 326 hp, Euro 5
- Allison 6-speed automatic transmission
- Transfer case with off-road gear reduction
- All wheel drive with central differential lock
- Differential lock in front and rear axle
- Parabolic leaf springs
- Drum brakes with ABS
- Tires 14.00 R 20 tubeless
- Separable aluminum rims
- Extended frame overhang
- Foldaway underride guard
- 2 chamber fuel tanks, capacity 850 liters (224.5 US gallons)
- Fuel prefilter with water separator and preheating
- Connector for compressed air
- Central tire inflation system CTIS
- Engine block heater
- Insulated and heated battery case
- Canister mount for 2 x 20 liters (5.3 US gallons) canisters under the cab
- 22 liters (5.8 US gallons) water tank with tap under the cab
- Skid plates under tanks and transfer case
- Roof rack
- 4 additional Xenon lights on roof rack
- 4 LED working lights sideways
- Light guards
- Radiator guard
- Additional safety locks for drivers cab
- 2 air suspended seats, heated + ventilated
- Cooling box in the rear of the cab, capacity: 18 liters (4.8 US gallons)
- Insulating door for access to cabin
- Integrated air conditioning
- Auxiliary heater
- Back eye camera
- Electronic immobilizer
- ETA automatic cutouts
- Radio with MP3 / USB / iPod connection and voice control
- Satellite navigation (GPS)
- CB Radio
- 230V, 24V outlets and USB charging outlets in the cab
Body

Outer dimensions of the cabin
- Length 7130 mm (280.7”), width 2480 mm (97.6”), height 2155 mm (84.8”)

Inner dimension of the cabin
- Length 7010 mm (276.0”), width 2360 mm (92.9”), height 1973 mm (77.7”)

Frame assembly
- 4-point kinematic attachment with main and flex mounts for stress-free body coupling to the torsion elastic chassis frame

Body unit construction
- Self supporting UNICAT sandwich plate panels of fiberglass composite
- Panel connections made by adhesive bond to custom extrusions eliminates metallic heat conduction paths
- Matched thermal coefficients of expansion prevent distortion with changes in temperature
- Wall thickness 60 mm (2.36”) with polyurethane foam insulation, 3 mm (0.12”) FRP outer surface, 2 mm (0.08”) FRP inner surface
- Insulation rating 0.44 W/sqm K (0.078 btu/ft h degF)
- Bottom panel with integrated welded steel frame and FRP surfaces
- Additional bottom insulation
- Slope at rear to improve slope angle
- Slanted front of body for better aerodynamics and appearance

Access to drivers cab
- Highly flexible waterproof bellows coupling
- Access closable

Entrance door and storage compartment doors
- Entrance door and storage compartment door constructed of fiberglass composite panels and frames
- Thickness of doors 60 mm (2.36”)
- Double sealed doors with heavy duty locks with seal compression
- Stainless steel hinges throughout
- Additional retractable bolts at top and bottom of entrance door
- Safety cylinder locks all keyed alike
- Mosquito net for entrance door
Windows
- Burglarproof, scratchproof top-hinged windows with fiberglass frames
- Double insulated thermal window glass
- Double seals with heavy duty lock
- Stainless steel hinges throughout
- Stainless steel lifting and locking device
- Aluminum-frame black-out and mosquito blinds
- Fixed windows in the front

Skylights
- Burglarproof skylight with aluminum frame
- 12 mm acrylic glass
- Heavy duty lock

- Full size UNICAT-skylights above the bed and above the seating area, constructed of fiberglass composite panels and frames
- Double seals
- Aluminum-frame black-out and mosquito blinds

Stairs
- Integrated 3 step staircase
- 2 step stairway, electrically motorized
Interior layout

Seating area
- Seating area for 4-6 persons, with swiveling, foldable table on pedestal in the front of the cabin
- Seat bench usable as single bed
- Seating unit converts to double bed 1400 mm x 2000 mm (55.1” x 78.1”)

Bed
- Double bed with suspension, ventilation, heating and comfortable mattress in the rear on pedestal
- Size: 1800 mm x 2000 mm (70.9” x 78.1”)
- Sliding door to separate from main room

Sanitary room
- Large combined shower and toilet room with door to isolate from living area
- Cupboard with VARICOR countertop and integrated wash basin
- Wall cupboard with mirror above the basin
- Also usable as dry storage due to its own radiator
- Folding seat bench above toilet

Kitchen
- Varicor countertop with integrated stainless steel sink
- 2-plate induction cooker
- Oven with microwave and grill
- 160 liters (42.3 US gallons) fridge with freezer rated 3 stars
- 52 liters (13.7 US gallons) fridge/freezer box
- Kitchen cabinet with drawers on ball bearings
- Shock-proof separation for tableware, cookware and kitchen appliances
- Overhead cupboards above kitchen
- Folding kitchen countertop

Storage
- 2 wardrobes with clothes rail
- Several cupboards with shelves or drawers
- Storage drawers
- Cupboards, overhead cupboards and storage boxes in bed area
- Storage boxes in seating area
- Storage boxes under entrance steps
- Pull-out cupboard
- Outside storage compartment under the bed pedestal

**Workmanship**
- All furniture is built to the highest cabinet making standard, made of wood core plywood using heavy duty locks and hinges
- White surfaces and teak edges

**Lay out**
- Teak floor
- Walls and ceiling are painted with multiple coats
- Wall lining in the seating area made of Alcantara
- Wall and ceiling lining in the bedroom made of Alcantara
- Upholstery made of Alcantara
**Technical equipment**

**Electrical equipment**
- Control panel for power management and monitoring of liquid levels
- Battery main switch, fault current breaker, safety cut out
- DC power supplied by AGM battery bank
- Battery capacity: 24 V – 630 Ah
- Charged by vehicle’s alternator with charge distributor
- Alternator with automatic I-U regulator, charge rate: 28 V – 110 A
- AC-DC chargers: 28 V – 60 A
- Inverter / Chargers 230 V AC, continuous output 6 kW, peak output 12 kW, charge rate 140 A
- International shore power connectors 90 -260 V AC (45 Hz-65 Hz)
- Power plugs for 12V, 24V DC and 230V AC
- Solar power system 400 W

**Remote monitoring**
- Outside temperature, inside temperature, temperatures technic
- Fresh water temperature, waste water temperature
- Body batteries: Voltage, battery power, battery capacity , battery temperature, history
- Chassis batteries: Voltage battery power, battery capacity , battery temperature, history
- Generator batteries: Voltage battery power, battery capacity , battery temperature, history
- Solar power system: Solar voltage, solar yield
- Barometric pressure measurement
- Radiation measurement

**Remote control**
- Heating system on/off
- Antifreeze protection

**Generator**
- Water-cooled Fischer-Panda diesel generator with 2-cylinder diesel engine
- Performance: 6.1 kW / 7.2 kVA
- Radiator for hot climates, with automatic post-cooling
- Pressurized cabinet, to protect against water entering, while fording
Music system/ TV / Video

- Stereo music system with MP3 / iPod connection and voice control in the seating area
- Stereo music system with MP3 / iPod connection and voice control in the bedroom
- Speakers in the seating area
- Satellite TV system with automatic satellite acquisition
- 27” iMac with DVD Player
- DVB-S satellite tuner

Lighting

- LED ceiling lights above the table, kitchen, bed, corridor and bath
- Reading lights in bed and seating area
- Lights for outside storage compartments
- 4 LED working lights at the rear
Water supply
- 600 liters (159 US gallons) freeze-proof drinking water tanks
- 60 liters (15.9 US gallons) hot water heat-exchanger with auxiliary electric heater
- All plumbing is insulated to prevent freezing
- Waste water tank, capacity 150 liters (39.6 US gallons), freeze-proof, with drain pump
- City water connector
- Outside shower
- Winterisation

Toilet
- Cassette toilet
- Removable rollable sewage cassette tank, capacity 19 liters (5 US gallons)

Heating system
- Diesel powered warm water central heating (9kW) (30,700 btu)
- Connection of heating system with the engine cooling system through a heat exchanger, to heat the body and hot water tank from engine’s waste heat
- High radiant heat share due to radiators in living area and sanitary room
- Towel dryer type radiator, mounted in the shower
- Additional heater in bed area
- Antifrost system
- Preheating for Generator, diesel fuel tanks and chassis batteries

Others
- Integrated split-type air conditioner, performance 3.2 kW (11,000 btu), powered by the generator, batteries or shore power
- Quad garage
- Awning 4500 mm x 2000 mm (177.6” x 78.7”)
- Lashing points for awning on side wall
- Spare wheel rack with lift on rear wall
- Mounting for 4 sand ladders
- Satellite-tracking-system
General information

Weight and measures
- GVWR: 20,000 kg (44,092 lbs)
- Dimensions: L 11,130 mm (438.2"), W 2,500 mm (98.4"), H 3,680 mm (144.9")