

PREMIUM TRAILER PRODUCT DATASHEET



The Premium Trailer is a remote power solution, providing an autonomous power supply for modern Lidars.

Standalone Power Supply

The Premium Trailer operates independently, enabling off-grid deployment.

Remote Monitoring

Remote monitoring capabilities provide real-time tracking and alerts for proactive maintenance.

Fixed Solar Panel Array

Unit features a fixed solar panel array that facilitates rapid deployment.

Storage

The POD also houses tools, batteries, jack legs, water tank, and control equipment.

Dual Axis Design

The dual-axis design is suitable for rough terrain.

Water Tank

An optional 70L water tank with level meter and alerts.

Additional Features

- Jack up legs on all four corners for stability and easy leveling.
- LiDAR flight case travels and is stored within the POD.
- LiDAR can travel on an A-frame for zero manual handling deployments.
- Sealed POD doors open on three sides for easy access.
- Control panel and batteries in a sandwich panel enclosure.

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Feature	Description
Premium Trailer Specifications (typical)	
System voltage	24V or 12VDC PSU
Battery capacity	1230 Ah Gel batteries
Battery autonomy	5-7 days
Battery design life	16 years at 25°C
Installed power array	2 x 570W bifacial solar modules
PV array angle	15 degrees
Solar regulator	Victron MPPT 100/50 with cloud monitoring
Remote monitoring	4G – Satellite optional (BGAN or Starlink)
Weight	Tare circa 1950kg (ATM 3250kg)
Water Capacity	Option for fixed 70L water tank with tank level monitoring and alerts
POD material	Insulated sandwich panel (Panelex)
Trailer brakes	Mechanical
Trailer Jack legs	Heavy Duty
Fitted Jerry Cans	Two as standard, or three if the 70L water tank option is taken
Other features included	Spare tyre, fire extinguisher, star picket driver, earth stake