

ESSENTIALS TRAILER PRODUCT DATASHEET



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

Standalone Power Supply

The Essentials Trailer functions as a standalone power supply unit, eliminating the need for external power sources and enabling seamless deployment in off-grid locations.

Remote Monitoring

Remote monitoring capabilities allow real-time tracking of power system health, with alerts sent via email or other communication channels to ensure proactive maintenance and troubleshooting.

Fixed Solar Panel Array

The trailer features a fixed solar panel array that requires no setup, ensuring continuous power supply and rapid deployment.

Additional Features

- Jack up legs on all four corners for stability and easy leveling.
- Windcube Lidar can travel on A-Frame for zero manual handling deployments.
- Windcube Lidar is deployed on trailer A-Frame for added security.
- Trailer storage for extra equipment

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Feature	Description
Essentials Trailer Specifications (typical)	
System voltage	24V or 12V DC PSU
Battery capacity	820 Ah Gel batteries
Battery autonomy	3-4 days
Battery design life	16 years at 25°C
Installed power array	2 x 580W mono-facial 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 1050kg (ATM 1500kg)
Water Capacity	55L water tank
Trailer dimensions	8x5 heavy duty box trailer
Trailer brakes	Mechanical
Other features included	Spare tyre, fire extinguisher, star picket driver, earth stake



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