DATA SHEET

Remote Deployment Unit RDU-S30

The RDU-S30 is a rapidly deployable skid, capable of supplying autonomous power for communication systems in harsh and remote locations.

Equipped with an integrated communications shelter and a 30-metre guy wire mast, which will ensure reliable equipment mounting and optimal signal coverage. Remote monitoring capabilities enable real-time tracking and alerts, allowing for proactive maintenance and system oversight.

An integrated DC air conditioning system regulates battery temperature, ensuring long-term performance and extended lifespan. The unit has sealed access doors protecting critical components with optional pressurisation to prevent dust ingress, maintaining system reliability in challenging conditions.

Additional features include solar panels mounted on pivoting arms with gas struts for efficient energy capture, diesel generator integration for continuous power supply and optional security and fire protection systems. Reinforced concrete ballast blocks with outriggers provide mast stability, making the RDU-S Skid 30 m a durable and dependable solution for remote communication infrastructure.

FEATURES

- The integrated 4.0 m x 2.9 m shelter includes two full height comms racks and battery racks.
- 30 m Guyed mast with outriggers and reinforced concrete ballast blocks.
- 18 x solar panels on pivoting arms.
- Diesel generator integration for continuous power.
- Sealed access doors, with optional positive pressurisation.
- Optional security and fire systems.

AUSTRALIAN MADE

Technical specifications

FEATURE	DESCRIPTION
Dimensions (skid | shelter)	H:3400 mm W:3950 mm L:6950 mm | H:3100 mm W:2900 mm L:4050 mm
Weight	Transport: 17,000 kg approx. | Deployed: 24,000kg approx. (include ballasts)
Wall construction material	Coolroom panel or HDG steel framed wall cladded with Lysaght Panelrib® XRW
External & internal finish	Surfmist
Flooring	Solid concrete with Class R9 minimum, heavy duty vinyl floor covering (AS 4586)
Roof	Skillion type with Colorbond® flashing and rain canopy
Air conditioning	48 VDC split system air-con
Access door	1 x personal access entry door with stainless steel door hardware
Communication rack	2 x 42 RU 600 x 800 mm Rittal TS-IT cabinet
Battery rack	2 x 42 RU 600 x 800 mm Rittal TS-IT cabinet
Installed solar array | angle	18 x 450 W bifacial solar panels | Fixed (20-45 degrees)
Solar regulator	2 x Victron MPPT 250/70
Battery | equipment voltage	51.2 V DC | 12 V, 24 V, 48 V (regulated)
Battery capacity	Up to 32 x 78Ah Lithium Ferro Phosphate (LiFeP04)
Battery autonomy	Typically, 3-5 days depending on average load
Battery design life	10 years
Remote communication	Victron VRM
Fire detection & protection	Basic: 2 x photo-optical detectors integrated with Victron Cerbo GX Advanced: Notifier AFP-3030 or FS-1600 Fire suppression available on request
Compliance standards	AS3084, AS3000, AS3008, AS3015, AS1170, AS3600, AS4100, AS/CA S009

About us

ART designs, manufactures, installs, and maintains turnkey infrastructure solutions for wind resource assessments, as well as for the broader renewables, resources and communications industries.

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