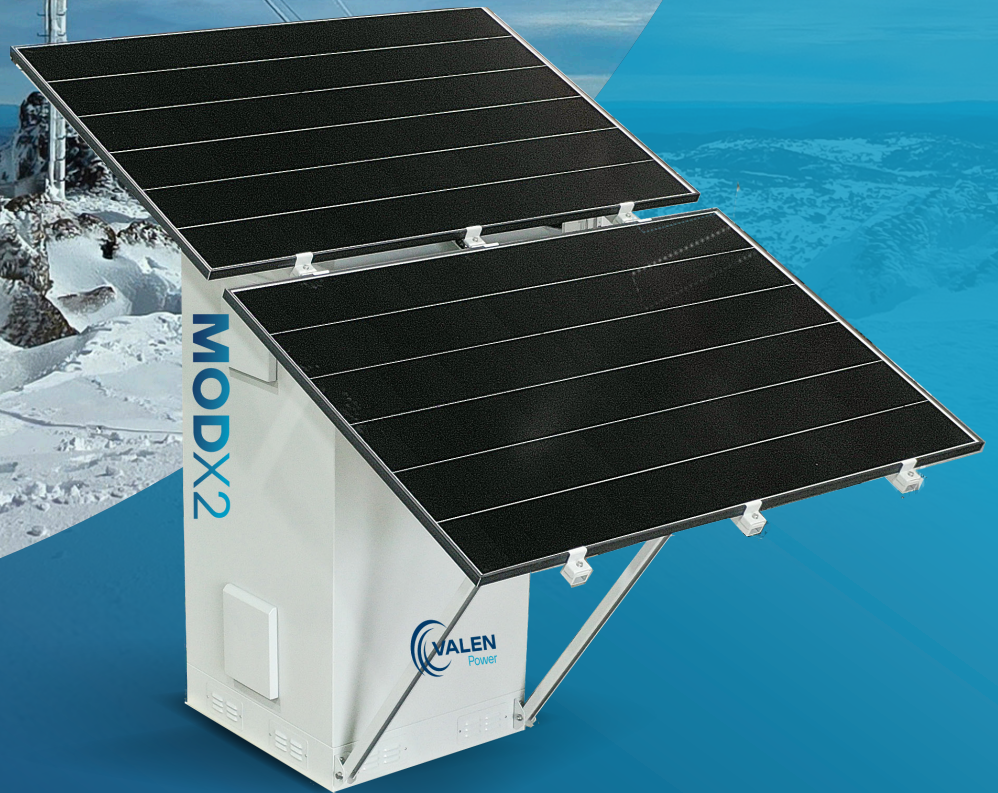


SYSTEMS



Valen ModX2

Fixed Frame Engineered
Solar Power System



AUSTRALIA

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Powering Potential

Valen ModX2

The Valen ModX2 is a fully integrated, pre-engineered solar energy storage solution manufactured by Valen Power. This turnkey system combines solar generation, lithium battery storage, power conversion, and intelligent energy management in a single weatherproof outdoor enclosure.

Every element has been factory-integrated, pre-wired, tested, and certified before leaving our facility in Lawson, Australia. This plug-and-play approach eliminates field integration challenges, reduces installation time by up to 70%, and ensures optimal component compatibility and system performance from day one.

As automation, digital infrastructure, and AI-driven technologies continue to advance, stable and reliable power in isolated regions is becoming more essential than ever. The ModX2 is engineered to meet that demand.

- ▶ Fully Certified
- ▶ Rapid Deployment
- ▶ Supported as a System



+ Additional Solar Arrays can be added to suit your site and increase solar footprint.



Fully Certified

The Modx2 arrives fully pre-wired, pre-tested, and structurally certified to AS 1170.2 Wind Region C, Importance Level 2 – before it leaves our facility in NSW, Australia. Full structural engineering documentation is included as standard, eliminating the need for separate certification and the weeks of project time it typically consumes. For regulated infrastructure operators where compliance is non-negotiable, this sets the Modx2 apart from day one.



Rapid Deployment

The Modx2 is held in stock, with standard systems ready to dispatch within one week of order placement. Every unit has been factory-tested and fully documented before entering stock, so what arrives on site is a certified, commission-ready system – not components that still need work. For projects where timing matters, the Modx2 is ready when you are.



Supported as a System

Because every component is integrated and tested by Valen Power at our Australian facility, the entire system carries a single warranty and a single support contact. Remote diagnostics via the Victron Remote Monitoring portal means most issues can be identified and resolved without a site visit, and spare parts are stocked locally for same-day dispatch. You have the backing of a manufacturer invested in the long-term performance of your system.



Specifications

Key Features	Pre-Engineered & Pre-Wired
Solar Capacity	990Wp
Solar Charge Controller	Victron BlueSmart MPPT 100/20 (98% peak efficiency)
Panel Angle	25° Fixed Tilt
Enclosure	Stainless Steel
Enclosure Locking	3-point Padlockable Locking
Cooling	Fan Cooled
Battery Technology	LiFePO ₄ (Lithium Iron Phosphate)
Battery Capacity Options	5.12 kWh / 10.24 kWh / 15.36 kWh
Battery Cycles	>6,000 cycles (80% DoD)
Battery Charger	48V 13A
Battery Controlled Charging	Yes
Discharge Temperature	-20°C to +60°C
Charge Temperature	-10°C to +55°C
Nominal Voltage	51.2V DC
DC-DC Converter	48/24-12A
Dimensions (HxWxD)	2183 x 850mm x 811mm
Designated Available Equipment Space	4RU+
Structural Certification	Wind Region C IL2 standard; Wind Region D IL1 available on request
Monitoring Options	Victron VRM portal (Modbus TCP/IP, Ethernet, mobile app)
Certifications	Structurally certified to AS1170.2 Wind Region C, Importance Level 2



Remote Power Made Simple



Designing a reliable auxiliary power system for remote sites can appear straightforward, but in practice it brings significant complexity. From evaluating component compatibility to engineering a compliant enclosure, coordinating multiple suppliers, and managing long lead times, a “simple” build can quickly stretch into weeks. Add wiring, mounting hardware, and on-site installation, and the total cost of a bespoke system often exceeds that of a purpose-built solution.

The ModX2 removes this complexity entirely – arriving as a complete, tested, certified, ready-to-deploy package.

Applications



Communications

- LoRaWAN Gateways and End-Nodes
- Radio and Microwave Communications
- Wireless Hot Spots, Wi-Fi, Private LTE, and C



Obstruction Lighting

- Broadcast and Communication Towers
- High Tension Power Lines
- Wind Turbines



Transportation

- Rail Car Tracking
- Traffic Management
- Traffic Monitoring



Oil and Gas/Pipeline/Water/Wastewater

- Block Valve Actuation
- Cathodic Protection
- Flow Metering
- Pipeline Custody Transfer
- PLC and RTU Systems
- Wellhead Controls



Environmental

- Air Quality Monitoring
- Cathodic Protection
- Flow Metering
- Seismic Monitoring
- Structural Integrity Monitoring
- Weather Monitoring



Security

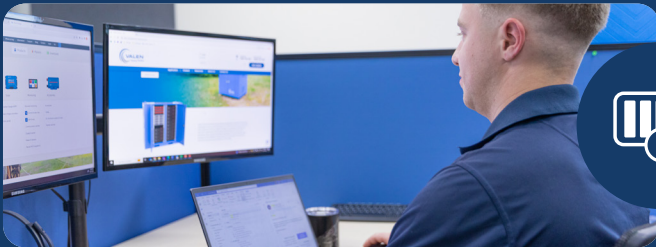
- Emergency Alert Boxes
- Gate Access
- Mustering Stations
- Perimeter Monitoring
- Security Cameras

The Valen Advantage



Discover

We work to understand your needs, challenges and opportunities.



Design

We provide solutions backed by 25 years of technical experience.



Deliver

We strive for excellence in procurement, dispatch and delivery.



Support

We support you for the life of your system.



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National Coverage

With warehouses located strategically, Valen offers fast and efficient delivery as well as superior service our clients have come to know and depend on.