

SYSTEMS



Valen ModX2

Fixed Frame Engineered
Solar Power System



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Powering Potential

Valen ModX2

Valen ModX2 Pre-Engineered Modular Auxiliary Power System is the result of many years of experience supporting clients with their remote off-grid and mission-critical power requirements. 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 Valen ModX2 auxiliary power system is engineered using a proven suite of Valen and industry-leading components, ensuring the entire system operates in complete synchronisation.

Valen's stainless steel industrial enclosures, high-efficiency solar panels, Victron control and monitoring hardware, and integrated AC charging all come standard, with additional options available to customise the system to specific project needs.

- ▶ Quick and Easy Installation
- ▶ Prewired Cabinet with Plug-and-Play Solar Panel Connection
- ▶ Fully integrated and remotely monitored system



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



Quick and Easy Installation

Valen's ModX2 is designed for quick and easy installation, ensuring minimal downtime and reduced labor requirements. With all components weighing under 80kg, transportation and handling are simplified, allowing for effortless site deployment. The unit is securely fastened to the ground using dynabolts, streamlining the installation process. Additionally, the solar panels can be installed at ground level, eliminating the need for elevated work platforms or extensive WHS equipment, further enhancing safety and efficiency on-site.



Prewired Cabinet with Plug-and-Play Solar Panel Connection

Valen ModX2 system comes prewired which deskills the deployment of these cabinets. No longer are qualified technicians required to understand all the components in the system and how they work, Valen has done the heavy lifting. All that's required is connecting the batteries up and plugging in the solar.



Fully Integrated and Remotely Monitored System

Valen's ModX2 system utilizes Victron Energy components which all speak to each other and work seamlessly together. No longer is there a need to check compatibility of components, how they'll install into the cabinet etc. All components communicate with each other and the Cerbo has the ability to connect remotely to Victron Remote Monitoring cloud platform.





Specifications

Key Features	Pre-engineered and pre-wired
Solar Capacity	990Wp
Solar Charge Controller	20A
Panel Angle	25°
Enclosure	Stainless Steel
Enclosure Locking	Twin door 3pt Padlockable locking
Cooling	Active
Battery Technology	WeCo LiFePO4
Battery Capacity	10.6kWh
Battery Cycles	7000 (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	51.2VDC
DC-DC Converter	48/24-12A
Dimensions	2500mm(L) x 2300mm(W) x 1800mm(H)
Designated Available Equipment Space	4RU+
Monitoring Options	MODBUS TCP/IP (Victron VRM)
Foundations	Pre-engineered foundations upon request.

Applications

Communications

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

Oil and Gas/Pipeline/Water/Wastewater

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

Obstruction Lighting

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

Environmental

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

Transportation

- Rail Car Tracking
- Traffic Management
- Traffic Monitoring

Security

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



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 the wiring, mounting hardware, and on-site installation, and the total cost of creating a bespoke system often exceeds that of a purpose-built solution.

The ModX2 is a fully pre-engineered, pre-wired auxiliary power system that removes this complexity. Featuring 10.6 kWh WeCo LiFePO₄ storage, AC charging capability, high-efficiency solar generation, Victron monitoring, circuit protection, and a stainless-steel enclosure with secure 3-point locking, it arrives as a complete, ready-to-deploy package. With active cooling, precise charge control, and robust environmental performance, it is engineered for longevity in demanding field conditions.

For remote communications, instrumentation, or auxiliary loads, the ModX2 delivers a faster, safer, and more economical path to deployment, with the added advantage of a modular structure that supports future upgrades and system expansions.

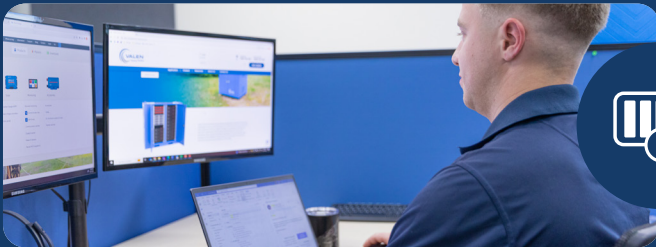
- ▶ **Rapid Deployment** – pre-built and ready to run
- ▶ **Cost Efficient** – saves time and money on build and installation
- ▶ **Guaranteed Compatibility** – all components tested as a complete system
- ▶ **Scalable & Flexible** – adapts to different site demands
- ▶ **Remote Monitoring** – integrated EMS for visibility and control

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.