

SYSTEMS



# Valen ModX1

Fixed Frame Engineered  
Solar Power System



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Powering Potential

## Valen ModX1

Valen ModX1 Pre Engineered Modular Solar System is the brainchild of accumulated years of experience supporting clients with their remote off grid power requirements. As the world continues to evolve into the AI space, power in remote locations is becoming increasingly essential.

The Valen ModX1 stand alone solar system is designed utilising a tried and tested range of Valen core products, allowing the ModX1 to perform in perfect synchronisation. Valen ENLiFEN Lithium battery system, Valen Industrial Field Cabinets, Valen Solar Panels and Solar Controllers all come standard, with optional extra's able to be added to retrofit to your project requirements.

- ▶ 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 ModX1 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 ModX1 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 ModX1 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                       | 440W                                     |
| Solar Charge Controller              | 50A                                      |
| Panel Angle                          | 30°                                      |
| Panel Mounting                       | Galvanised                               |
| Enclosure                            | Powder Coated Aluminum                   |
| Enclosure Locking                    | Twin door 3pt Padlockable locking        |
| Battery Technology                   | ENLiFEN LiFePO4                          |
| Battery Capacity                     | 2.4 to 9.6kWh                            |
| Battery Cycles                       | 6000 (80% DoD)                           |
| Power Outputs Available              | 12V, 24VDC standard. (AC Optional)       |
| Dimensions                           | 700mm(L) x 750mm(W) x 2500mm(H)          |
| Designated Available Equipment Space | 10RU+                                    |
| Monitoring Standard                  | Cloud, Modbus TCP/IP, VRM Platform       |
| Monitoring Options                   | SNMP, DNP3, Satellite                    |
| 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

### 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

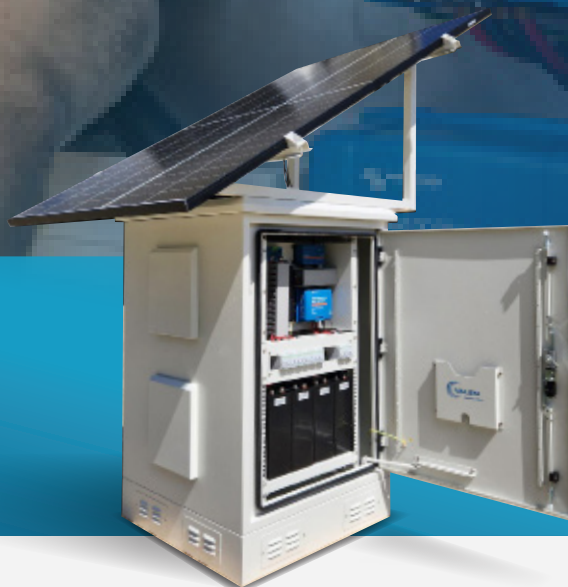
- Air Quality Monitoring
- Cathodic Protection
- Flow Metering
- Seismic Monitoring
- Structural Integrity Monitoring
- Weather Monitoring

### Security

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



# Remote Power Made Simple



Designing a small off-grid solar system often seems straightforward, but the reality is far more complex. From checking component compatibility to designing a cabinet layout, sourcing multiple suppliers, and waiting on staggered lead times, a “simple” build can quickly become weeks of work. Add the wiring, mounting, and field installation, and the cost of building your own system can easily be double that of a ready-made solution.

The ModX1 is a pre-engineered, pre-wired standalone power system that removes this complexity. Available in both 12 V and 24 V configurations, it integrates lithium battery storage, MPPT solar charge controller, circuit protection, and remote monitoring hardware into a compact, weatherproof cabinet. Built with trusted components and designed for efficient cooling and long service life, it arrives ready to install with a one-week lead time.

For small-scale remote power, the ModX1 offers a faster, simpler, and more cost-effective path to deployment, with the added advantage of portability for redeployment on future projects.

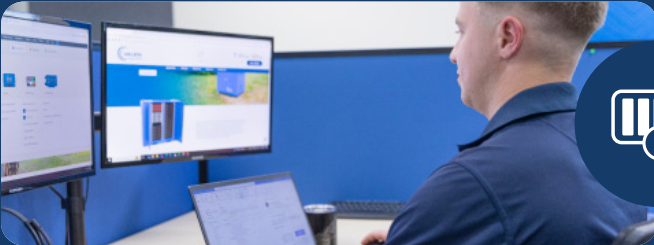
- ▶ **Rapid Deployment** – pre-built and ready to run
- ▶ **Cost Efficient** – saves time and money on build and installation
- ▶ **Guaranteed Compatibility** – all components tested as a complete system
- ▶ **Scalable & Flexible** – adapts to different site demands
- ▶ **Remote Monitoring** – integrated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