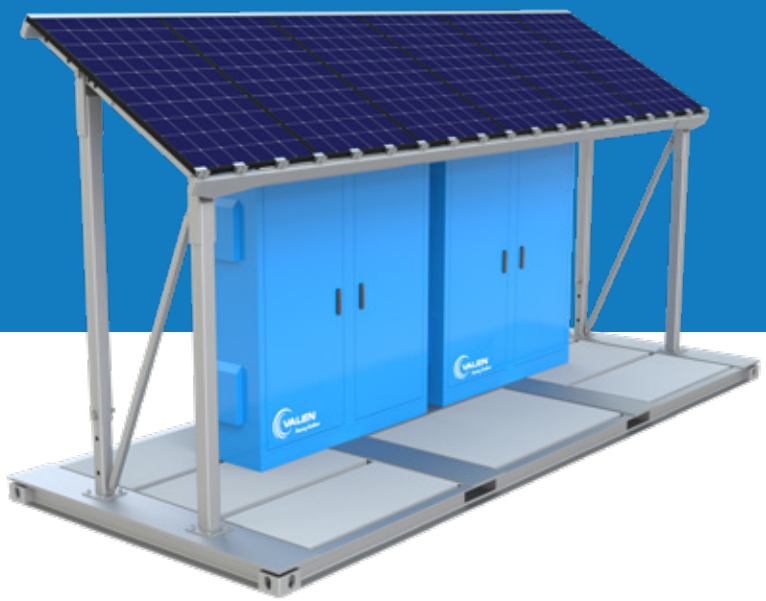
ModX - Fixed Frame Engineered Solar System

Pre Engineered
Modular Solar System



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Powering Excellence

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Introducing Valen ModX

Valen ModX is the brainchild of accumulated years of experience supporting clients with their remote power requirements. As the world continues to evolve into the AI space, power in remote locations is becoming increasingly essential.

Valen ModX is designed utilising a tried and tested range of Valen core products, allowing the ModX to perform in perfect synchronisation. Valen WeCo 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.

ModX is modular, maintenance-free and easy to install and operate making it an ideal solution for the remote extreme-temperature regions of Australasia.

Advantages of ModX

- Australian made and engineered means product support and spares are readily available
- All components are under 1 tonne for easy transportation
- Quick installation as no ground penetration is required
- Portable system structure available as an option for sites with changing requirements
- Modular systems meaning they can be expanded as the need arises
- Solar panels are able to be installed at ground level minimising the need for WHS equipment
- Remote monitoring for easy tracking of multiple remote sites

Optional Extras

Customise your system to your site. Valen ModX optional extras allow you to ensure your system is ready to go for challenging site locations.

- AC and DC Diesel Generator with Bunded fuel tank (Remote/ AutoStart, Tank Levels & Temperature Sensors
- 48V Wind Turbine - 220W>
- Larger Industrial Field Enclosure to house additional Equipment
- Upgrade to Cyclonic Wind Rating
- Precast Concrete Pads
- Coastal/ Corrosive Environment upgrade
- Perforated screen on 3 sides to shade and protect equipment

Electrical Capabilities

- Valen Power ModX range uses highly efficient solar panels and is configured to harness the maximum Power in lowlight periods.
- The ModX unique Panel-tilt system allows techs to easily adjust angle to suit site requirement on install or should they change.
- ModX comes standard with the managed Weco Italian designed rack-mount units due to their ability to provide 7000 cycles to an 80% DOD and full visibility for Asset managers/ NOC.
- The ModX comes standard as a 48VDC unit to ensure efficiency and minimal losses. DC-DC conversion to 12/24VDC available. (Also 230Vac in Single, Split, and 3 Phase available on request.)
- Real-time data, monitoring, configuration, and control, including batteries are remotely or locally visible. Multiple ModX's can be live on the one dashboard making asset management easy.

DUTY CYCLE 100%

DAYS AUTONOMY	ModX2	ModX3	ModX4	ModX6	ModX12
2 DAYS	88W	177W	177W	265W	530W
3 DAYS	59W	118W	118W	177W	353W
5 DAYS	35W	71W	71W	106W	212W
7 DAYS	25W	50W	50W	76W	151W

DUTY CYCLE 75%

DAYS AUTONOMY	ModX2	ModX3	ModX4	ModX6	ModX12
2 DAYS	118W	236W	236W	353W	707W
3 DAYS	79W	157W	157W	236W	471W
5 DAYS	47W	94W	94W	141W	283W
7 DAYS	34W	67W	67W	101W	202W

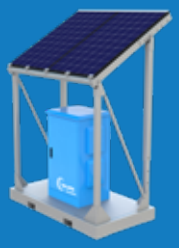
DUTY CYCLE 50%

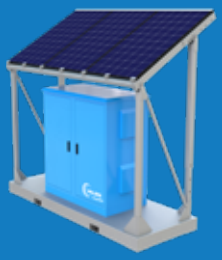
DAYS AUTONOMY	ModX2	ModX3	ModX4	ModX6	ModX12
2 DAYS	177W	353WW	353W	530W	1060W
3 DAYS	118W	236W	236W	353W	707W
5 DAYS	71W	141W	141W	212W	424W
7 DAYS	50W	101W	101W	151W	303W

DUTY CYCLE 25%

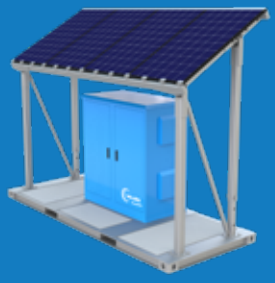
DAYS AUTONOMY	ModX2	ModX3	ModX4	ModX6	ModX12
2 DAYS	353W	707W	707W	1060W	2120W
3 DAYS	236W	471W	471W	707W	1413W
5 DAYS	141W	283W	283W	424W	848W
7 DAYS	101W	202W	202W	303W	606W

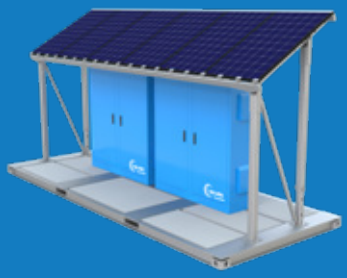
Specifications

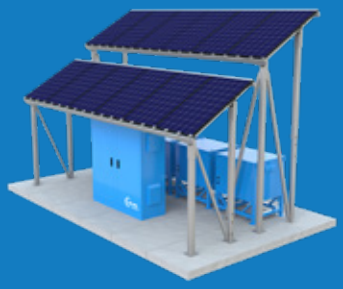




	ModX2	ModX3
SPECIFICATIONS		
Key Features	Pre-engineered	Pre-engineered
Solar Capacity	.8kWp+	1.2kWp+
Solar Charge Controller	1.16kW	2kW
Panel Angle	15-60	15-60
Batteries	5.3kWh	10.6kWh
Power Outputs Available	DC- 12V, 24V, 48V (AC option)	DC- 12V, 24V, 48V (AC option)
Skid Dimensions	2.16m(L) x 1.17m(W) x 2.54 - 3.45m(H)	3.16m(L) x 1.17m(W) x 2.54 - 3.45m(H)
Designated Available Equipment space	10RU+	10RU+
Monitoring Options	Canbus, Modbus, SNMP, DNP3, Cloud, Local, 4G, Satellite	Canbus, Modbus, SNMP, DNP3, Cloud, Local, 4G, Satellite
Wind Rating	Wind Region: C Terrain Catagory: 2	Wind Region: C Terrain Catagory: 2
Options	AC Power Single, split, and 3 phase Generation: DC & AC Diesel Generators Wind Turbines Methanol/ Hydrogen Generators Air Management: DC Airconditioning DC Fans Digital Inputs Tank Levels Temperature Sensors Smoke and door alarms	AC Power Single, split, and 3 phase Generation: DC & AC Diesel Generators Wind Turbines Methanol/ Hydrogen Generators Air Management: DC Airconditioning DC Fans Digital Inputs Tank Levels Temperature Sensors Smoke and door alarms







	ModX4	ModX6	ModX12
SPECIFICATIONS			
Key Features	Pre-engineered	Pre-engineered	Pre-engineered
Solar Capacity	1.6kWp+	2.4kWp+	4.8kWp+
Solar Charge Controller	2kW	2.6kW	4.9kW
Panel Angle	15-45	15-45	15-45
Batteries	10.6kWh	15.9kWh	31.8kWh
Power Outputs Available	DC- 12V, 24V, 48V (AC option)	DC- 12V, 24V, 48V (AC option)	DC- 12V, 24V, 48V (AC option)
Skid Dimensions	4m(L) x 1.6m(W) x 2.54 - 3.45m(H)	6.06m(L) x 2.44m(W) x 2.54 - 3.45m(H)	6.71m(L) x 4.00m(W) x 3.67 – 4.56m(H)
Designated Available Equipment space	10RU+	10RU+	10RU+
Monitoring Options	Canbus, Modbus, SNMP, DNP3, Cloud, Local, 4G, Satellite	Canbus, Modbus, SNMP, DNP3, Cloud, Local, 4G, Satellite	Canbus, Modbus, SNMP, DNP3, Cloud, Local, 4G, Satellite
Wind Rating	Wind Region: C Terrain Catagory: 2	Wind Region: C Terrain Catagory: 2	Wind Region: C Terrain Catagory: 2
Options	AC Power Single, split, and 3 phase	AC Power Single, split, and 3 phase	AC Power Single, split, and 3 phase
	Generation: DC & AC Diesel Generators Wind Turbines Methanol/ Hydrogen Generators	Generation: DC & AC Diesel Generators Wind Turbines Methanol/ Hydrogen Generators	Generation: DC & AC Diesel Generators Wind Turbines Methanol/ Hydrogen Generators
	Air Management: DC Airconditioning DC Fans	Air Management: DC Airconditioning DC Fans	Air Management: DC Airconditioning DC Fans
	Digital Inputs Tank Levels Temperature Sensors Smoke and door alarms	Digital Inputs Tank Levels Temperature Sensors Smoke and door alarms	Digital Inputs Tank Levels Temperature Sensors Smoke and door alarms

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