



Industrial Batteries and Energy Storage

FRONT TERMINAL BATTERIES BROCHURE 21



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12V

Advanced AGM Front Terminal

Valen X-CEL range features a deep cycle, rechargeable, Valve Regulated Lead Acid (VRLA) battery. Based on Absorbent Glass Matting (AGM) construction, the Valen X-CEL range is a safe and maintenance-free battery solution, while carrying the advantages of the X-CEL technology.

Unique high purity virgin lead plates incorporating 1.6% tin assist in reducing both battery sulphation and plate delamination, therefore substantially extending the battery's life. Valen X-CEL Front Terminal battery's slimline design allows it to be retrofitted into 19-inch racking for a compact and effective battery system suited for communication and UPS applications. A narrow profile with the terminals across the front means the batteries are easily accessible for both installation and maintenance.



Applications include:



UPS



Comms



Datacentre



Mining



Rail

Features

Premium (Valve Regulated Lead Acid) VRLA Design

Valen X-CEL battery range is able to be installed and operated in any position (except inverted) making it an attractive option for less accessible areas

Maintenance Free Design

Minimises technician time spent at site and on battery related callouts

Advanced X-CEL Technology

High purity virgin lead plates, including the unique tin formula, gives the Valen X-CEL a 10-year standby design life

Specialised Valen Front Terminal Design

Includes terminal protection cover, insulated intercell links, ventilation holes for optional external venting, as well as being designed for easy installation into 19-inch racks

FAA and IATA Approved

Valen X-CEL battery range is safe for air transportation.

Customised battery racking and cabinetry available on request (page 11). For more details call the team today.

Specifications

Voltage	12 Volt nominal
Plates	Virgin pure lead/ 1.6% tin grid alloy
Container	ABS Plastic
Charge Voltage	Cycle: 14.4-14.7V at 25°C Float: 13.2-13.8V at 25°C
Design Life	10-years
Electrolyte	Sulphuric Acid
Vent	Self-sealing
Operating Temp*	-20°C to +60°C*

*However Valen recommend the X-CEL batteries be operated in the temperature range of 20°C to 30°C to obtain full life and optimum performance.

12V Advanced AGM Front Terminal

Product Code	Nom. Cap C/10	Nom. Cap C/5	Terminal ^	Dimensions (mm)			Weight (Kg)	Stocked Item
				L	W	H		
12 VXFT 100	105	95	M8	395	110	286	35	-
12 VXFT 155	156	142	M8	551	110	316	51.5	-
12 VXFT 190	181	161.5	M8	546	125	317	58.5	-

Battery Links

Valen supply battery link kits to ensure your system installation is hassle-free! These system links work in with Valen's standard battery racking.

We understand that there is not always one fix, so ask us about customised links!



12V

Carbon Front Terminal

Valen ENVIROX-CEL Front Terminal range features a rechargeable, deep cycle, Valve Regulated Lead Acid (VRLA) battery. The Valen ENVIROX-CEL battery construction is based on the Absorbent Glass Matting (AGM) safe and maintenance-free technology. However, the Valen ENVIROX-CEL is manufactured with unique high purity virgin lead plates, incorporating calcium, allowing for an extremely long float life performance.

Valen ENVIROX-CEL Front Terminal's slimline design allows it to be retrofitted into 19-inch racking for a compact and effective battery system. A narrow profile with the terminals across the front means the terminals are easily accessed for both installation and maintenance. These Front Terminal batteries have the capability to be exteriorly ventilated with optional ventilation tubing available. Stringent quality controlled manufacturing and in-house testing enables the Valen ENVIROX-CEL Front Terminal battery range to deliver a 12-year design life.



Applications include:



UPS



Comms



Datacentre



Mining



Rail

Features

Premium (Valve Regulated Lead Acid) VRLA Design

Valen ENVIROX-CEL battery range is able to be installed and operated in any position (except inverted) making it an attractive option for less accessible areas

Maintenance Free Design

Minimises technician time spent at site and on battery related callouts

Advanced Carbon Design

Valen ENVIROX-CEL's inclusion of Carbon allows for an extremely long float life performance with a 12-year standby design life

Specialised Valen Front Terminal Design

Includes terminal protection cover, insulated intercell links, ventilation holes for optional external venting, as well as being designed for easy installation into 19-inch racks

FAA and IATA Approved

Valen ENVIROX-CEL battery range is safe for air transportation

Customised battery racking and cabinetry available on request (page 11). For more details call the team today.

Specifications

Voltage	12 Volt nominal
Plates	Virgin pure lead/ Lead-Calcium-Tin-Alloy
Container	ABS Plastic
Charge Voltage	Cycle: 14.4V at 25°C Float: 13.62V at 25°C
Design Life	12-years
Electrolyte	Sulphuric Acid
Vent	Self-sealing
Operating Temp*	-20°C to +60°C*

*However Valen recommend the ENVIROX-CEL batteries be operated in the temperature range of 20°C to 30°C to obtain full life and optimum performance.

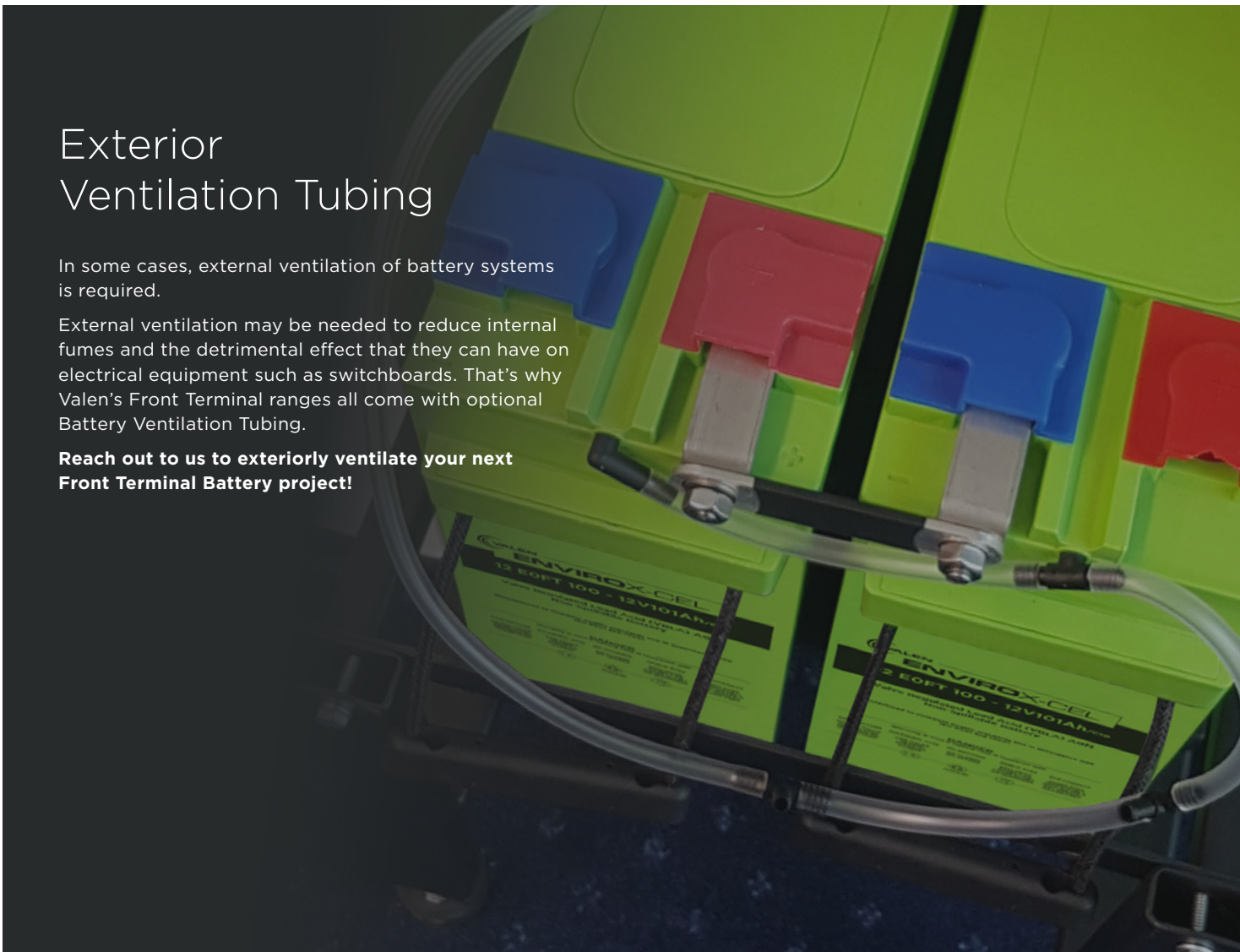
Product Code	Nom. Cap C/10	Nom. Cap C/5	Terminal ^	Dimensions (mm)			Weight (Kg)	Stocked Item
				L	W	H		
12 EOFT 100	101	88	M6	398	110	286	33.2	✓
12 EOFT 155	157	136	M6	550	110	285	49.0	✓
12 EOFT 190	192	167	M6	555	125	316	61	-

Exterior Ventilation Tubing

In some cases, external ventilation of battery systems is required.

External ventilation may be needed to reduce internal fumes and the detrimental effect that they can have on electrical equipment such as switchboards. That's why Valen's Front Terminal ranges all come with optional Battery Ventilation Tubing.

Reach out to us to exteriorly ventilate your next Front Terminal Battery project!



12V

Gel Front Terminal with Catalyst

Valen ENDUROGEL range features a rechargeable, deep cycle, Valve Regulated Lead Acid (VRLA) battery. Genuine Gel technology allows this battery range to offer the cyclic benefits of the Valen Gel range.

However, the Valen ENDUROGEL range outshines the standard Gel battery by incorporating both advanced lead plates and the Catalyst.

High purity virgin lead plates with 1.6% tin extend the longevity of the Valen ENDUROGEL battery. Inclusion of the unique Catalyst Life Extender reduces sulphation and delamination while substantially preventing battery dry out.

Valen Front Terminal's slimline design allows the battery to be retrofitted into 19-inch racking for a compact and effective battery system. Stringent quality controlled manufacturing and in-house testing gives the Valen ENDUROGEL Front Terminal range the ability to deliver a 15-year design life, as well as being the Front Terminal battery of choice in mission-critical cyclic applications.



Applications include:



UPS



Comms



Datacentre



Mining



Rail



Solar



Features

Premium (Valve Regulated Lead Acid) VRLA Design

Valen ENDUROGEL battery range is able to be installed and operated in any position (except inverted) making it an attractive option for less accessible areas

Maintenance Free Design

Minimises technician time spent at site and on battery related callouts

Advanced ENDUROGEL Technology

Thixotropic Gelled electrolyte, genuine Gel separators, quality lead plates and a Catalyst Life Extender allow the Valen ENDUROGEL range to offer a 15-year design life

Specialised Valen Front Terminal Design

Includes terminal protection cover, insulated intercell links, ventilation holes for optional external venting, as well as being designed for easy installation into 19-inch racks

Unique Catalyst Life Extender

Prevents battery dry out allowing the Valen ENDUROGEL range to become the battery of choice for mission-critical cyclic applications

FAA and IATA Approved

Valen ENDUROGEL battery range is safe for air transportation



Specifications

Voltage	12 Volt nominal
Plates	Heavy Duty
Container	ABS Plastic
Charge Voltage	Cycle: 14.4-15.0V at 25°C Float: 13.5-13.8V at 25°C
Design Life	15-years
Electrolyte	Thixotropic Gel Sulphuric Acid
Vent	Self-sealing
Operating Temp*	-20°C to +60°C*

*However Valen recommend the ENDUROGEL batteries be operated in the temperature range of 20°C to 30°C to obtain full life and optimum performance.

Customised battery racking and cabinetry available on request (page 11). For more details call the team today.

12V Gel Front Terminal with Catalyst

Product Code	Nom. Cap C/10	Nom. Cap C/5	Terminal ^	Dimensions (mm)			Weight (Kg)	Stocked Item
				L	W	H		
12 EGFT 100	95.2	83	M6	395	110	286	31	✓
12 EGFT 155	156	135.5	M8	550	110	288	46.5	✓
12 EGFT 175	172	149.5	M8	546	125	317	57	-



How well are your batteries performing?

Valen's full range of battery testers ensures there is a way of finding out just how reliable your battery system is!

We stock quick indicative battery testers for onsite inspections, cyclic discharge load testers for accurate analytical tests and reporting, or impedance testers with the software for online storage and reporting.

See page 53 to go through Valen's full range of battery testers.

12V

Advanced Carbon Front Terminal

Valen ENVIROX-CELPlus range features a rechargeable, deep cycle, Valve Regulated Lead Acid (VRLA) battery. Advanced Graphitic Carbon and Carbon Black Blend in the active material allow the ENVIROX-CELPlus+ to recharge faster, increasing the batteries efficiency for operation in harsh environments.

Valen ENVIROX-CELPlus range is designed for endurance in higher temperature standby environments of up to 65°C. Shock resistant and flame retardant casing have been utilised in the construction of the Valen ENVIROX-CELPlus battery to increase its resistance to the outside temperatures.

Valen Front Terminal's slimline design allows the battery to be retrofitted into 19-inch racking for a compact and effective battery system. Stringent quality controlled manufacturing and in-house testing gives the Valen ENVIROX-CELPlus Front Terminal range the ability to deliver a 15-year design life, as well as being the Front Terminal battery of choice for critical standby applications or sites with an unstable grid.



Applications include:



UPS



Comms



Datacentre



Mining



Rail



Solar



Features

Premium (Valve Regulated Lead Acid) VRLA Design

Valen ENVIROX-CELPlus battery range is able to be installed and operated in any position (except inverted) making it an attractive option for less accessible areas

Maintenance Free Design

Minimises technician time spent at site and on battery related callouts

Advanced Carbon Design

Valen ENVIROX-CELPlus's inclusion of Carbon allows for an extremely long float life performance with a 15-year standby design life

Specialised Valen Front Terminal Design

Includes terminal protection cover, insulated intercell links, ventilation holes for optional external venting, as well as being designed for easy installation into 19-inch racks

FAA and IATA Approved

Valen ENVIROX-CELPlus battery range is safe for air transportation

Customised battery racking and cabinetry available on request (page 11). For more details call the team today.



Specifications

Voltage	12 Volt nominal
Plates	Virgin pure lead/ Lead-Calcium-Tin Alloy
Container	ABS Plastic
Charge Voltage	Cycle: 14.4V at 25°C Float: 13.62V at 25°C
Design Life	15-years
Electrolyte	Sulphuric Acid
Vent	Self-sealing
Operating Temp*	-20°C to +65°C*

*However Valen recommend the ENVIROX-CELPlus+ batteries be operated in the temperature range of 20°C to 30°C to obtain full life and optimum performance.

12V Advanced Carbon Front Terminal

Product Code	Nom. Cap C/10	Nom. Cap C/5	Terminal ^	Dimensions (mm)			Weight (Kg)	Stocked Item
				L	W	H		
12 EO+FT 100	104	90.5	M8	400	110	286	32.8	✓
12 EO+FT 150	152	132	M8	557	125	316	58.9	–
12 EO+FT 190	192	167	M8	557	125	316	62	–



In-house Testing Facilities

Our clients deserve reassurance that their batteries are going to last in their systems, so we ensure all of our products are manufactured following Australian Standards and quality controlled in-house.

Battery testing in-house includes:

- **Physical examination; dimensions, terminals, labels**
- **Weight examination**
- **3x cyclic discharge test**
- **Impedance test**
- **Battery lead and chemical testing**

IP66 19" Data Racks



Valen's IP66 19-inch Data Racks enclosures are designed for heavy-duty outdoor applications to house sensitive data network equipment in harsh environments. They are suitable for internal and external installations. All Valen's enclosures are built to precision in Europe ensuring consistent high-quality standards.

Valen's data rack enclosures come in a range of sizings; 16RU, 24RU, 32RU and 42RU.

A variety of options and accessories are also available to suit the Valen IP66 19" Data Rack enclosures.



Features

Data Rack Unit Sizes

There are a variety of the Valen IP 66 19" data rack available; 16RU, 24RU, 32RU and 42RU

Protection

Valen's IP66 19" data rack complies with IP66 IK10, NEMA 4 and standards AS60529, EIA-310-D

Data Rack Body

The robust monoblock body is 1.5mm galvanised steel sheet. Precision automated manufacturing equipment ensures accuracy and consistently high-quality. Flat face sealing surfaces increase seal life. A galvanised steel gland plate is incorporated into the bottom face

Data Rack Door

The surface-mounted door is 1.5mm galvanised steel sheet. It incorporates concealed removable hinges with captive pins and designed for a 110° opening. Each door contains integral cable management rail studs and an M6 earth stud. The cable management rails are removable to provide more space for control components

Data Rack Seal

A high-quality full perimeter seal provides excellent sealing over a long life. It is machine applied Polyurethane foamed in place (FIP)

Data Rack Lock

3 point locking system with key-lock swing handle. A full range of locking solutions are available upon request

Gland Plate

Gland plates incorporated into the bottom face of the enclosure for cable management. Provided with gaskets and fasteners; the size and quantity vary according to enclosure size

Surface Treatment

UL approved epoxy-polyester powder-coated with a textured finish; 80-120 micron average thickness. The standard electrical enclosure colour is RAL7035. A full range of other colour options is available upon request.

Product Code	Enclosure Size (mm)			Size	No. of U (RU)
	H	W	D		
DRE IP 850x600x400	850	600	400	19"	16RU
DRE IP 850x600x600	850	600	600	19"	16RU
DRE IP 850x600x800	850	600	800	19"	16RU
DRE IP 1200x600x400	1200	600	400	19"	24RU
DRE IP 1200x600x600	1200	600	600	19"	24RU
DRE IP 1200x600x800	1200	600	800	19"	24RU
DRE IP 1600x600x600	1600	600	600	19"	32RU
DRE IP 2000x600x600	2000	600	600	19"	42RU
DRE IP 2000x600x800	2000	600	800	19"	42RU

Valen Cabinets & Enclosures Customisation Options

Customisation allows Valen to provide a cabinet or enclosure designed and engineered to meet specific project requirements.

2D drawings are available for approval on all Valen customised enclosures, and 3D models can be accessed should this be required. Valen can handle one-off prototype runs as well as large scale production. Customisation options include the following range of accessories and fittings:

- Non-standard shapes and sizes,
- Holes and cut-outs,
- Sloping roof rain hoods fitted,
- Sun shields,
- Inner doors fitted,
- Viewing windows,
- Plan Pockets,
- Shelves,
- Custom paint or powder-coat colour including anti-graffiti coating,
- Locking systems fitted,
- LED Lighting fitted,
- Ventilation fitted,
- Cable glands fitted, and
- Custom mounting brackets (wall brackets, pole mount brackets, stands).

Field Cabinets



Valen's plinth-mounted Field Cabinets are designed to house sensitive data network and electrical equipment for a variety of heavy-duty outdoor applications.

These cabinets compliment Valen's battery and charger solutions to a range of industries, including road and transportation management and remote monitoring.



Features

Protection

Valen's field cabinets comply with IP66 IK10, NEMA 4 (excluding cutouts for fans/filters, vent hoods, covering fan/filter cutouts IP65) as well as standards IEC62208, IEC/EN/AS60529, IEA-310-D

Field Cabinet Body

The robust monoblock body is fabricated using 2.0mm galvanised steel sheet. The body is fitted with rain hood/sunshield, plinth, vent hoods and 4x lifting eye bolts. Flat face sealing surfaces are provided to increase seal life. A 3.0mm galvanised steel split gland plate is also incorporated into the bottom face. Four cutouts 125mm x 125mm are supplied to house fans and filters, and each are covered with removable vent hoods. Precision automated manufacturing equipment ensures accuracy and consistent high-quality (fans and filters ordered separately)

Field Cabinet Doors

The front and rear doors are fabricated using 2.0mm galvanised steel sheet and are designed to provide flush recessed mounting to prevent vandalism and unauthorised access. The doors incorporate concealed removable hinges with captive pins and designed for a 110° opening and are provided with heavy-duty door stays

19" Data Rack Rails

Front and rear 19" data rack rails fabricated from 1.5mm galvanised steel sheet

Field Cabinet Seals

High-quality Polyurethane foamed in place (FIP) full perimeter door seals provide excellent sealing over a long life

Field Cabinet Locks

Each door includes a 3 point locking system with key-lock swing handle. A full range of locking solutions are available upon request

Gland Plate

3mm aluminium split gland plates incorporated into the bottom of the enclosure for cable management

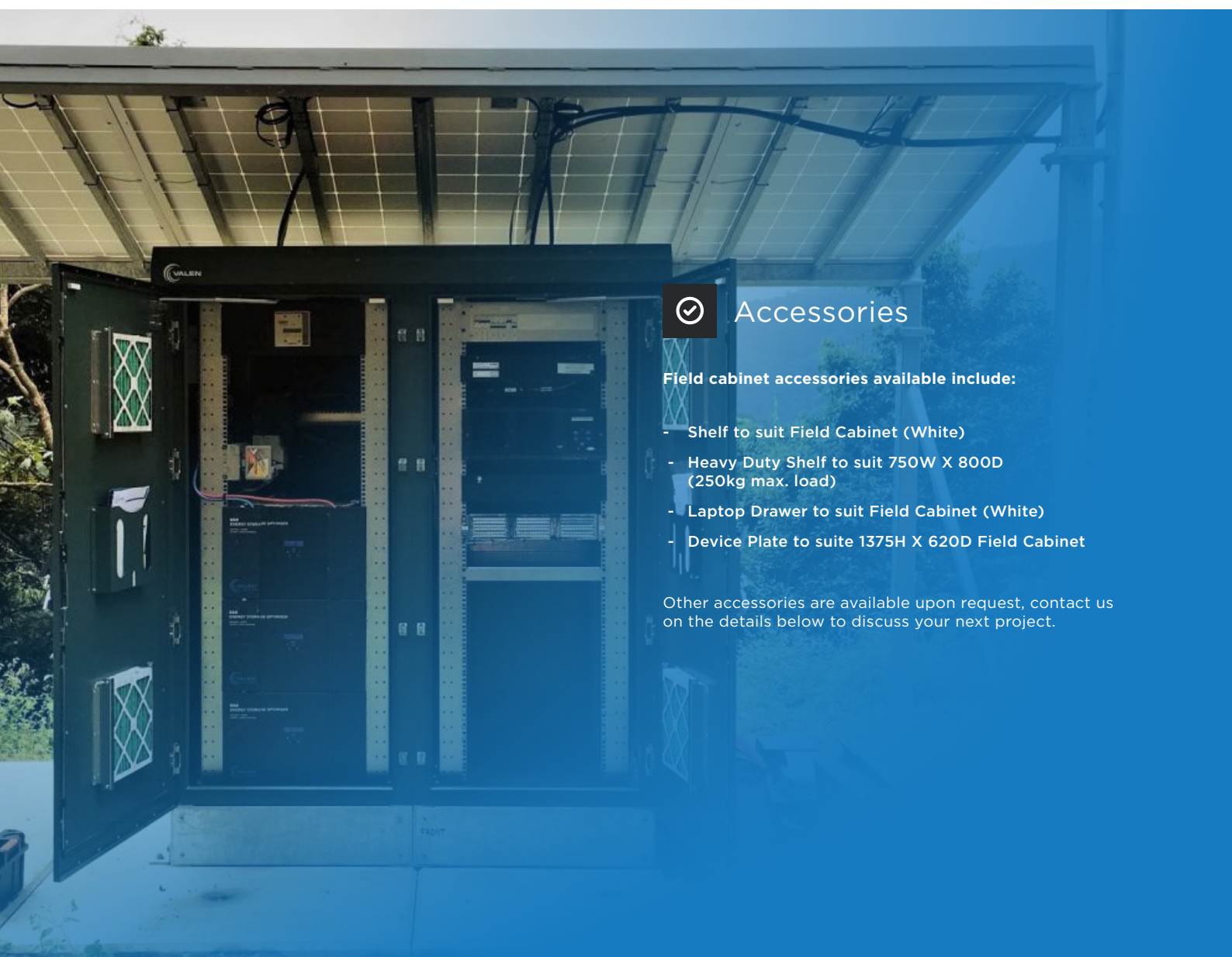
Surface Treatment

UL approved epoxy-polyester powder-coated with a smooth finish; 80-120 micron average thickness

Colour

The standard field cabinet colour is T33 Smoke Blue. A full range of other colour options are available upon request

Product Code	Enclosure Size (mm)			Colour	No. of U (RU)
	H	W	D		
FC IP 1375x750x620	1375	750	620	T33 Smoke Blue	24RU
FC IP 1375x750x800	1375	750	800	T33 Smoke Blue	24RU
FC IP 1675x750x620	1675	750	620	T33 Smoke Blue	30RU
FC IP 1675x750x800	1675	750	800	T33 Smoke Blue	30RU
FC IP 1975x750x620	1975	750	620	T33 Smoke Blue	36RU
FC IP 1975x750x800	1975	750	800	T33 Smoke Blue	36RU
FC IP 2275x750x620	2275	750	620	T33 Smoke Blue	42RU
FC IP 2275x750x800	2275	750	800	T33 Smoke Blue	42RU



Accessories

Field cabinet accessories available include:

- Shelf to suit Field Cabinet (White)
- Heavy Duty Shelf to suit 750W X 800D (250kg max. load)
- Laptop Drawer to suit Field Cabinet (White)
- Device Plate to suite 1375H X 620D Field Cabinet

Other accessories are available upon request, contact us on the details below to discuss your next project.



The Valen Story

Valen was first founded as Regal Electro in 1999. Over the next few years, it became apparent that there was a growing need in the industry for a battery supplier who knew not only the characteristics of various technologies, but also understood the technical manufacturing procedures to ensure a quality product.

2009 Opened premises in Hallam, VIC to ensure fast service & delivery to clients.

2010 A presence in New Zealand was established.

2015 Successfully completed its first ENLiFEN Energy Storage Optimiser (ESO) prototype which was put proudly on display at the Comms Connect Exhibition in Melbourne.

2017 Rebranding and reinvigorating of the core product range, Power Charge renamed to Valen, meaning 'Power' in Latin.

2018 A Sydney office and logistics centre was opened in April with the view to further improve the level of service offered to clients.

2018 The company name was changed from Regal Electro to Valen! This decision was made to strengthen the brand and recognition within the industrial battery market.

2020 Valen has continued to grow year on year and strengthened our position as an End to End Solution provider for Australia and New Zealand.



Wow Customers through Service

- Our customers want service and we want our employees to go above and beyond for our customers.



Move Fast & Remain Focused to Get Results

- We are serious about results and we must never lose focus on our goals and our sense of urgency to achieve.
- We believe in working hard and putting in extra effort to get things done.



Upbeat Positive Attitude

- If our employees have a positive attitude and constantly strive to give your best effort, eventually we will overcome our immediate problems and find you are ready for greater challenges.
- Positive and negative are directions that lead to different outcomes. We expect our employees to move in the right direction each day.



Challenge the Status Quo

- We are committed to great results and good is the enemy of great. We want our employees to embrace & drive change



Play as a Team

- Working effectively as a team creates momentum, improves morale.
- The difference between success and failure is a great team and we expect our employees to work together as a team.



Wow Customers through Service

Move Fast & Remain Focused to Get Results

Upbeat Positive Attitude

Challenge the Status Quo

Play as a Team

Our team is ready to deliver!

- ✓ Making the Promise
- ✓ Delivering the Promise
- ✓ Keeping the score



Complete Solution

Valen are an End-to-End Solution Provider; so we offer you a complete system solution! Being able to offer the complete solution we save you the hassle of having to search for additional suppliers. From design to supply, we are with you every step of the way!



Quality Control

With our in-house quality control team and state of the art facilities, we ensure the delivery of a unique product that meets and goes beyond your expectations.



Innovative Products

At Valen we take pride in being original, so we have an exclusive range of products for our clients. These unique products and innovation ensure you stay at the front of an ever changing market.



Technical Support

Our support doesn't stop once you invest in our products; with our experienced and skilled technical team we assist you even after sale. If you have any questions about your System or Products purchased, our technical team have the answers.



Personalised Training

Our qualified team of experts are readily available to provide world class training to your team. Thus, ensuring you remain up to date with the latest battery technologies, safety and testing.



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