VALEN Power

Product brochure

Front terminal battery range

Lead acid and lithium front terminal batteries for telecommunications, UPS and critical power racks.

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Contents

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12V batteries from 100Ah to 200Ah, plus 48V lithium, for comms, UPS, datacentres, rail and mining.



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Range overview

Choose the right range

Every battery in this brochure has a slimline front terminal format built for 19-inch racking. The terminals sit across the front, so installation and maintenance happen without pulling batteries from the rack. Choose sealed lead acid for proven standby performance, or ENLiFEN lithium for lower weight and remote monitoring.

Range	Technology	Voltage	Format	Design life	Typical applications	Page
ENVIROX-CEL	AGM + carbon	12V	Front terminal	12 years	UPS, Comms, Datacentres, Mining, Rail	4
ENVIROX-CELPLUS	AGM + advanced carbon	12V	Front terminal	15 years	UPS, Comms, Datacentres, Mining, Rail	5
ENLiFEN Front Terminal	Lithium (LiFePO4)	12V, 48V	Front terminal	Refer to datasheet	Comms, Datacentres, UPS, Rail, Mining	6
TOPIN Front Terminal	AGM	12V	Front terminal	10-12 years (float)	Telecommunications, UPS, Emergency power, Standby systems	7
ENDUROGEL Front Terminal	Gel + catalyst	12V	Front terminal	15 years	UPS, Comms, Datacentres, Mining, Rail	8

Lead acid (VRLA)

Sealed, maintenance-free front terminal batteries with 10 to 15 year design lives. ENVIROX-CEL and ENVIROX-CELPLUS use carbon for long float life, TOPIN is AGM, and ENDUROGEL is gel with the Catalyst Life Extender.

Lithium (ENLiFEN)

LiFePO4 cells managed by the Valen ENLiFEN BMS. Lighter than AGM, with 48V models that report state of charge, health and temperature for remote sites.

> **Need help sizing a battery bank?** Valen's technical team can match a range and capacity to your load, autonomy and site conditions. Call 1300 734 253 (AU) or 0800 734 253 (NZ).

12V carbon front terminal

Valen ENVIROX-CEL

Valen ENVIROX-CEL Front Terminal is a rechargeable, deep cycle, maintenance-free AGM VRLA battery. High purity virgin lead plates incorporating calcium, plus a carbon additive, give long float life and better charge acceptance.

The slimline design retrofits into 19-inch racking, with terminals across the front for easy installation and maintenance. Optional ventilation tubing allows external venting. The range has a 12-year design life.

Applications

UPS | Comms | Datacentres | Mining | Rail



Features

Valve Regulated Lead Acid (VRLA) design
Installs and operates in any position except inverted, so it suits hard-to-reach locations.

Maintenance-free
Less technician time on site and fewer battery-related callouts.

Advanced carbon design
Carbon gives long float life performance with a 12-year standby design life.

Front terminal design
Terminal protection cover, insulated intercell links, ventilation holes for optional external venting, and easy installation into 19-inch racks.

FAA and IATA approved
Safe for air transportation.

Customised battery racking and cabinetry available on request.

Specifications

Voltage	12 Volt nominal
Plates	Virgin pure lead / lead-calcium-tin alloy
Container	ABS plastic
Charge voltage	Cycle: 14.4V Float: 13.62V at 25°C
Design life	12 years
Electrolyte	Sulphuric acid
Vent	Self-sealing
Operating temp	-20°C to +60°C*

*Valen recommends operating between 20°C and 30°C for full life and optimum performance.

Models

Model	Capacity (Ah)		Terminal	Dimensions (mm)			Weight (kg)
	C10	C5		L	W	H	
12EOFT100	101	89	M8	398	110	286	33.2
12EOFT155	157	137	M8	550	110	285	49

12V advanced carbon front terminal

Valen ENVIROX-CELPLUS

Valen ENVIROX-CELPLUS is a rechargeable, deep cycle VRLA battery. An advanced graphitic carbon and carbon black blend in the active material lets it recharge faster, improving efficiency in harsh environments.

It is built for standby sites with higher temperatures, up to 65°C, or an unstable grid. Shock resistant, flame retardant casing adds protection, and the slimline format retrofits into 19-inch racking. The range has a 15-year design life.

Applications

UPS | Comms | Datacentres | Mining | Rail | Solar



Features

Valve Regulated Lead Acid (VRLA) design

Installs and operates in any position except inverted, so it suits hard-to-reach locations.

Maintenance-free

Less technician time on site and fewer battery-related callouts.

Advanced carbon design

Carbon gives long float life performance with a 15-year standby design life.

Front terminal design

Terminal protection cover, insulated intercell links, ventilation holes for optional external venting, and easy installation into 19-inch racks.

FAA and IATA approved

Safe for air transportation.

Customised battery racking and cabinetry available on request.

Specifications

Voltage	12 Volt nominal
Plates	Virgin pure lead / lead-calcium-tin alloy
Container	ABS plastic
Charge voltage	Cycle: 14.4V Float: 13.62V at 25°C
Design life	15 years
Electrolyte	Sulphuric acid
Vent	Self-sealing
Operating temp	-20°C to +65°C*

*Valen recommends operating between 20°C and 30°C for full life and optimum performance.

Models

Model	Capacity (Ah)		Terminal	Dimensions (mm)			Weight (kg)
	C10	C5		L	W	H	
12EO+FT100	107.1	94	M8	400	110	286	33
12EO+FT105	105	TBC	M8	510	110	235	34.5
12EO+FT170	171.6	149.4	M8	557	125	316	62
12EO+FT190	192	168.5	M8	557	125	316	62

12V and 48V lithium front terminal

Valen ENLiFEN Front Terminal

Valen ENLiFEN Front Terminal batteries use lithium iron phosphate (LiFePO4) cells in series and parallel, controlled by the Valen ENLiFEN Battery Management System (BMS). The BMS protects against short circuit, over-voltage, over-discharge and thermal runaway, and equalises the individual cells to support a long service life.

The slimline format retrofits into 19-inch racking and other space-restricted sites. The 48V models add communications for real-time monitoring of state of charge, state of health, temperature, current and cell voltage.



Applications

Comms | Datacentres | UPS | Rail | Mining | Telemetry | Solar

Features

Lithium iron phosphate (LiFePO4)
Life expectancy of 6 to 10 times a standard AGM battery.

Valen ENLiFEN BMS
Prevents short circuit, over-voltage, over-discharge and thermal runaway, and balances every cell.

Lighter weight
Up to two-thirds lighter than a standard AGM battery.

Remote monitoring (48V)
48V 75Ah supports CANBUS, MODBUS, RS232, RS485 and SNMP. 48V 80Ah supports CAN.

Maintenance-free
Less technician time on site and fewer battery-related callouts.

Specifications

Chemistry	Lithium iron phosphate (LiFePO4)
Voltage	12V and 48V (51.2V) nominal
Management	Valen ENLiFEN BMS
Terminals	12V: M8 48V: 50A Anderson connector
Communications	48V models: CAN, plus MODBUS, RS232, RS485 and SNMP on 75Ah
Operating temp	-20°C to +60°C (12V models)

Models

Model	Voltage	Nominal (Ah)	Terminal	Dimensions (mm)			Weight (kg)
				L	W	H	
12ELFT125100	12V	125	M8	394	110	286	13
12ELFT200150	12V	200	M8	550	110	288	20
ELFT4875321	48V	75	50A Anderson	560	110	330	TBC
ELFT4880321	48V	80	50A Anderson	560	125	330	34

12V AGM front terminal

Valen TOPIN Front Terminal

Valen TOPIN Front Terminal batteries bring TOPIN AGM construction to a slimline format for telecommunications and UPS racks. The terminals sit across the front, so connection and maintenance happen without pulling the battery from the rack.

The range is sealed and maintenance-free, with a 10 to 12 year float design life and high-rate discharge capability for critical power applications.



Applications

Telecommunications | UPS | Emergency power | Standby systems

Features

Front terminal design
Built for installation in 19-inch and 23-inch telecom and UPS racks.

Maintenance-free
Less technician time on site and fewer battery-related callouts.

High-rate discharge
Dependable performance for UPS and emergency power loads.

Specifications

Voltage	12 Volt nominal
Construction	AGM, VRLA
Terminals	F18, T11 or M8 (by model)
Design life	10-12 years (float)

Models

Model	Capacity (Ah)		Terminal	Dimensions (mm)			Weight (kg)
	C10	C5		L	W	H	
12TPFT100	95	85	F18	507	106	235	30
12TPFT150	150	131	T11	550	110	288	45.5
12TPFT170	170	149	M8	551	110	320	58
12TPFT200	180.5	174.8	F18	558	127	317	59.5

12V gel front terminal with catalyst

Valen ENDUROGEL Front Terminal

Valen ENDUROGEL Front Terminal brings genuine gel technology, advanced lead plates and the Catalyst Life Extender to a rack-friendly format.

High purity virgin lead plates with 1.6% tin and the Catalyst Life Extender reduce sulphation and delamination and prevent dry out. The slimline design retrofits into 19-inch racking and supports a 15-year design life in mission-critical cyclic applications.

Applications

UPS | Comms | Datacentres | Mining | Rail | Solar



Features

Valve Regulated Lead Acid (VRLA) design
Installs and operates in any position except inverted, so it suits hard-to-reach locations.

Maintenance-free
Less technician time on site and fewer battery-related callouts.

Advanced ENDUROGEL technology
Thixotropic gelled electrolyte, genuine gel separators, quality lead plates and a Catalyst Life Extender support a 15-year design life.

Front terminal design
Terminal protection cover, insulated intercell links, ventilation holes for optional external venting, and easy installation into 19-inch racks.

FAA and IATA approved
Safe for air transportation.

Customised battery racking and cabinetry available on request.

Specifications

Voltage	12 Volt nominal
Plates	Heavy duty
Container	ABS plastic
Charge voltage	Cycle: 14.4-15.0V 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*

*Valen recommends operating between 20°C and 30°C for full life and optimum performance.

Models

Model	Capacity (Ah)		Terminal	Dimensions (mm)			Weight (kg)
	C10	C5		L	W	H	
12EGFT100	105	92	M8	395	110	286	34
12EGFT155	143	125	M8	550	110	288	50

We Power What Can't Fail

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Specifications are nominal at 25°C and may change without notice. Refer to the product datasheet at valen.com.au for current data before design or purchase. Capacity is shown at the stated discharge rate (C20 = 20-hour rate, C10 = 10-hour rate, C5 = 5-hour rate, C100 = 100-hour rate).