



Product brochure

Gel battery range

Valen GEL and ENDUROGEL batteries for cyclic and standby power.

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Contents

Gel batteries

From 21Ah monoblocs to 1000Ah cells, for solar, comms, rail, mining, medical and mobility.



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Choose the right range

Every battery in this brochure is a sealed, maintenance-free Valve Regulated Lead Acid (VRLA) gel battery. The electrolyte is held in thixotropic silica gel, which resists deep discharge and recovers well after heavy draining. ENDUROGEL adds advanced lead plates and the Catalyst Life Extender for a longer design life.

Range	Technology	Voltage	Format	Design life	Typical applications	Page
GEL	Gel	2V, 6V, 12V	Monobloc	10 years	Hospitals & medical, Floor scrubbers, Mobility, Road signage, Golf & electric vehicles	4
ENDUROGEL	Gel + catalyst	6V, 12V	Monobloc	12 years	Hospitals & medical, Datacentres, Automatic gates, Mobility, Road signage	5
ENDUROGEL Front Terminal	Gel + catalyst	12V	Front terminal	15 years	UPS, Comms, Datacentres, Mining, Rail	6
ENDUROGEL 2V	Gel + catalyst	2V	2V cells	20 years	UPS, Comms, Datacentres, Mining, Rail	7

Valen GEL

Economical gel monoblocs with a 10-year design life, suited to cyclic duty such as solar, mobility, medical equipment and floor scrubbers.

Valen ENDUROGEL

High purity plates with 1.6% tin and the Catalyst Life Extender give a 12 to 20 year design life. Choose monobloc, front terminal for 19-inch racks, or 2V cells for large battery banks.

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).

Valen GEL

Valen GEL is a rechargeable, deep cycle VRLA battery. The electrolyte is suspended in thixotropic silica gel rather than an absorbent glass mat, which extends battery life and reduces the number of cycles needed to reach full capacity.

GEL resists deep discharge and recovers well after heavy draining. Quality-controlled manufacturing and in-house testing support a 10-year design life, making it an economical choice for cyclic applications.

Applications

- Hospitals & medical
- Floor scrubbers
- Mobility
- Road signage
- Golf & electric vehicles
- Comms
- Solar
- Mining
- Telemetry



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.

Thixotropic silica gelled electrolyte

Genuine gel separators and quality lead plates support a 10-year design life.

FAA and IATA approved

Safe for air transportation.

Specifications

Voltage	2, 6 & 12 Volt nominal
Plates	Heavy duty
Container	ABS plastic
Charge voltage	6V cycle: 7.2-7.5V 6V float: 6.75-6.9V 12V cycle: 14.1-14.4V 12V float: 13.5-13.8V at 25°C. 2V: refer to datasheet
Design life	10 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)
	C20	C10		L	W	H	
2VG500	TBC	510	M8	210	171	367	31.5
6VG225	220	210	M8	243	188	275	32
12VG21	21	19	M5	181	77	167	6
12VG26	26	23	M6	165	125	175	9
12VG33	33	31	M6	195	130	158	10.2
12VG40	40	39	M6	197	165	158	14
12VG55	55	51	M6	229	138	214	18
12VG60	60	56.2	M6	254	168	178	20
12VG70	70	64.8	M6	254	168	205	24
12VG100	100	95	M8	330	173	215	33.5

Valen ENDUROGEL

Valen ENDUROGEL is a rechargeable, deep cycle VRLA battery with genuine gel technology. It builds on the GEL range with advanced lead plates and the Catalyst Life Extender.

High purity virgin lead plates with 1.6% tin extend battery life. The Catalyst Life Extender lowers the rate of dry out, which reduces sulphation and delamination. Together they give ENDUROGEL a 12-year design life for mission-critical cyclic applications.

Applications

- Hospitals & medical
- Datacentres
- Automatic gates
- Mobility
- Road signage
- Rail
- Comms
- Solar
- Mining
- Telemetry



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 12-year design life.

Catalyst Life Extender

Prevents battery dry out in mission-critical cyclic applications.

FAA and IATA approved

Safe for air transportation.

Specifications

Voltage	6 & 12 Volt nominal
Plates	Heavy duty
Container	ABS plastic
Charge voltage	6V cycle: 7.05-7.2V 6V float: 6.75-6.9V 12V cycle: 14.1-14.4V 12V float: 13.5-13.8V at 25°C
Design life	12 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)
	C100	C20	C10		L	W	H	
6EG260	260	220	204	M8	243	187	276	35
12EG50	50	40	37.6	M6	197	165	170	14
12EG60	61	55	51	M6	229	138	214	18
12EG80	80	70	65	M6	260	168	215	24
12EG110	110	100	95	M8	330	171	214	33.5
12EG170	178	150	141	M8	485	172	240	44
12EG220	220	200	185	M8	522	238	218	65
12EG300	300	250	231	M8	521	269	220	80.5

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

Valen ENDUROGEL 2V

Valen ENDUROGEL 2V cells combine genuine gel technology with advanced lead plates and the Catalyst Life Extender.

High purity virgin lead plates with 1.6% tin extend cell life, and the Catalyst Life Extender reduces sulphation and delamination and prevents dry out. The 2V configuration allows safe, secure installation and maintenance in higher capacity cyclic power systems, with a 20-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 ENDUROGEL technology

Thixotropic gelled electrolyte, genuine gel separators, quality lead plates and a Catalyst Life Extender.

2V design

Protective terminal cover and insulated intercell links.

Racking available

Standard and modular racking, or customised racking to fit your site.

FAA and IATA approved

Safe for air transportation.

Specifications

Voltage	2 Volt nominal
Plates	Heavy duty
Container	ABS plastic
Charge voltage	Cycle: 2.40-2.45V Float: 2.20-2.30V at 25°C
Design life	20 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		L	W	H	
2EG450	455	M8	210	171	367	31.5
2EG500	500	M8	241	171	330	31
2EG1000	1010	M8	475	175	356	69.2



We Power What Can't Fail

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