VALEN Power

Product brochure

2V battery cell range

ENDUROGEL, GEL and OPzV 2V cells for large standby and cyclic battery banks.

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2V battery cells

From 450Ah to 2000Ah, for UPS, comms, datacentres, rail, mining and solar.



2V cells

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Range overview

Choose the right range

Every battery in this brochure is a sealed, maintenance-free 2V gel cell. Cells connect in series to build a battery bank at the voltage your system needs, with high capacity in each cell for large UPS, comms and solar installations.

Range	Technology	Voltage	Format	Design life	Typical applications	Page
ENDUROGEL 2V	Gel + catalyst	2V	2V cells	20 years	UPS, Comms, Datacentres, Mining, Rail	4
GEL 2V	Gel	2V	2V cells	10 years	Solar, Comms, Mining, Telemetry, Hospitals & medical	5
OPzV	Tubular gel	2V	2V cells	18 years	UPS, Comms, Datacentres, Mining, Rail	6

Gel cells

ENDUROGEL 2V adds high purity tin plates and the Catalyst Life Extender for a 20-year design life. GEL 2V is the economical gel option for cyclic banks.

Tubular gel (OPzV)

Tubular positive plates and sliding pole terminals with an 18-year design life. Solar variants for deep cycling, Standby variants for UPS, telecom and rail backup.

> **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).

2V gel cells with catalyst

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

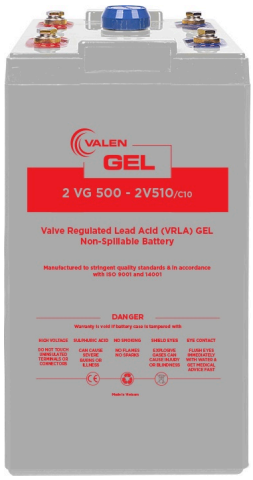
Model	Capacity (Ah)	Terminal	Dimensions (mm)			Weight (kg)
	C10		L	W	H	
2EG450	455	M8	210	171	367	31.5
2EG500	500	M8	241	171	330	31
2EG1000	1010	M8	475	175	356	69.2

2V gel cell

Valen GEL 2V

The Valen GEL 2V cell is a deep cycle, maintenance-free VRLA battery with a genuine thixotropic silica gel electrolyte.

It suits larger battery banks for solar, comms, mining and telemetry systems, and can be installed in any position except inverted. The gel electrolyte resists deep discharge and recovers well after heavy draining.



Applications

Solar | Comms | Mining | Telemetry | Hospitals & medical | Mobility

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 for cyclic duty.

FAA and IATA approved
Safe for air transportation.

Specifications

Voltage	2 Volt nominal
Plates	Heavy duty
Container	ABS plastic
Charge voltage	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)
	C10		L	W	H	
2VG500	510	M8	210	171	367	31.5

2V tubular gel with sliding pole

Valen OPzV

Valen OPzV is a tubular plated gel battery: rechargeable, deep cycle and maintenance-free. It is offered in Solar variants for deep cycling in off-grid banks, and Standby variants for UPS, telecom and rail backup.

Sliding pole technology lets the terminal move with positive plate growth, preventing case rupture and extending battery life. With certified manufacturing and cyclic gel electrolyte, OPzV has an 18-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.

Tubular gel technology
Tubular positive plates with lead calcium tin negative grids for strong cyclic and deep discharge performance.

Sliding pole design
Reduces the risk of case rupture from positive pole growth. Designed for high current applications.

2V design
Protective terminal cover and insulated intercell links.

IATA approved
Safe for air transportation.

Specifications

Voltage	2 Volt nominal
Plates	Lead calcium tin alloy
Container	ABS plastic
Charge voltage	Cycle: 2.35V Float: 2.25V at 25°C
Design life	18 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	Variant	Nominal (Ah)	Capacity (Ah)	Terminal	Dimensions (mm)			Weight (kg)
			C10		L	W	H	
2VOSO500	Solar	500	605	M10	166	206	471	40.8
2VOSO800	Solar	800	806	M10	147	208	665	52.4
2VOSO900	Solar	700	TBC	M10	147	208	643	52.5
2VOSO1100	Solar	1100	TBC	M10	147	208	643	52.5
2VOST500	Standby	500	500	M10	166	206	471	40.8
2VOST700	Standby	700	782	M10	147	208	643	52.5
2VOST900	Standby	900	984	M10	193	212	644	66.3
2VOST1000	Standby	1000	1108	M10	233	210	674	81.7
2VOST1500	Standby	1500	TBC	M10	275	210	824	110.1
2VO2000	–	2000	2168	M10	399	214	799	156.1

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).