



PowerSafe® VGL

Renewables, Telecommunications and Utility

Battery Range Summary

The pocket plate design, combined with the Nickel-cadmium (Ni-Cd) chemistry and valve regulated technology places the PowerSafe® VGL in the lead with low maintenance batteries. The Ni-Cd technology provides exceptionally long life at extreme temperatures while the inherent extremely low maintenance feature is enhanced by the valve regulated design. Qualities which unquestionably make the Ni-Cd series of batteries an ideal choice for low rates of discharge over long periods.

The robust design provides an excellent resistance against electrical and mechanical stress, low risk of terminal degradation and a proven 20 plus year life. This combination along with proven use in service make the PowerSafe VGL battery the right choice for industrial applications, proven reliability and the highest safety integrity. The PowerSafe VGL battery series covers discharges of 1 hour to 100 hours.

Features and Benefits

- Capacity range 12-1570Ah
- Single one piece container construction
- Ni-Cd pocket plate design
- Long storage and shelf life
- Wide operating temperature
- Low risk of terminal degradation
- Translucent plastic case for visible electrolyte level monitoring
- Proven 20 plus year service life



Construction

- Robust construction means low risk of terminal degradation
- Plate lugs are connected to post by bolting or welding
- Dilute potassium hydroxide electrolyte
- Felt separators insulate plates and improve recombination rates
- Dual post seal design minimizes carbon formation
- Single one piece container construction
- Flame arresting low Pressure Relief Valve (PRV)

Installation and Operation

- Extremely low watering requirements over normal service lifetime
- Low maintenance technology with recombination rates up to 90%
- Cells can be stored for long durations without damage
- Translucent case allows for electrolyte level verification
- Proven long service life with 20 plus years in stationary cycling operations
- Operating temperature: -22°F (-30°C) to 122°F (50°C)
Recommended temperature: 32°F (0°C) to 104°F (40°C)

Standards

- Conforms to IEC 62259
- The management systems governing the manufacture of this product are ISO 9001:2008 and ISO 14001:2004 certified

General Specifications

Cell Type	Nominal Ah Capacity*	Nominal Dimensions						Weight	
		Length		Width		Height		Unpacked	
		in	mm	in	mm	in	mm	lbs	kg
VGL 12	12	1.8	46	3.3	85	6.6	167	2.3	1.0
VGL 20	20	1.8	46	3.3	85	9.3	237	3.1	1.4
VGL 25	25	1.8	46	3.3	85	9.3	237	3.3	1.5
VGL 35	35	1.8	46	3.3	85	9.3	237	3.6	1.6
VGL 45	45	3.3	85	3.3	85	9.3	237	5.9	2.7
VGL 50	50	3.3	85	3.3	85	9.3	237	6.2	2.8
VGL 60	60	3.3	85	3.3	85	9.3	237	6.5	2.9
VGL 70	70	2.1	53	5.3	134	14.3	364	10.7	4.9
VGL 80	80	2.1	53	5.3	134	14.3	364	11.0	5.0
VGL 100	100	2.7	69	5.3	134	14.3	364	13.2	6.0
VGL 120	120	2.7	69	5.3	134	14.3	364	13.9	6.3
VGL 135	135	2.8	70	6.5	164	14.3	364	16.9	7.7
VGL 155	155	2.8	70	6.5	164	14.3	364	17.3	7.8
VGL 175	175	4.3	108	6.5	164	14.3	364	22.8	10.4
VGL 205	205	4.3	108	6.5	164	14.3	364	23.8	11.1
VGL 225	225	4.3	108	6.5	164	14.3	364	24.4	11.1
VGL 245	245	4.3	108	6.5	164	14.3	364	25.6	11.6
VGL 275	275	4.3	108	6.5	164	14.3	364	26.9	12.2
VGL 300	300	6.5	164	6.2	158	14.3	364	35.6	16.2
VGL 330	330	6.5	164	6.2	158	14.3	364	36.3	16.5
VGL 350	350	6.5	164	6.2	158	14.3	364	37.5	17.0
VGL 375	375	6.5	164	6.2	158	14.3	364	38.6	17.5
VGL 390	390	6.5	164	6.2	158	14.3	364	39.7	18.0
VGL 420	420	6.5	164	6.2	158	14.3	364	40.8	18.5
VGL 440	440	6.5	164	6.2	158	14.3	364	41.7	18.9
VGL 500	500	6.9	176	9.7	246	15.0	382	60.2	27.3
VGL 555	555	6.9	176	9.7	246	15.0	382	62.4	28.3
VGL 585	585	6.9	176	9.7	246	15.0	382	57.4	28.7
VGL 610	610	6.9	176	9.7	246	15.0	382	58.6	29.3
VGL 645	645	6.9	176	14.5	368	15.0	382	59.6	29.8
VGL 665	665	6.9	176	14.5	368	15.0	382	81.4	40.7
VGL 705	705	6.9	176	14.5	368	15.0	382	82.8	41.4
VGL 750	750	6.9	176	14.5	368	15.0	382	83.8	41.9
VGL 795	795	6.9	176	14.5	368	15.0	382	85.2	42.6
VGL 835	835	6.9	176	14.5	368	15.0	382	86.2	43.1
VGL 890	890	6.9	176	17.6	448	15.0	382	98.4	49.2
VGL 990	990	6.9	176	17.6	448	15.0	382	107.4	53.7
VGL 1110	1110	6.9	176	17.6	448	15.0	382	112.0	56.0
VGL 1260	1260	6.9	176	17.6	448	15.0	382	127.6	63.8
VGL 1320	1320	6.9	176	17.6	448	15.0	382	131.6	65.8
VGL 1390	1390	6.9	176	17.6	448	15.0	382	135.6	67.8
VGL 1560	1560	6.9	176	17.6	448	15.0	382	138.8	69.4
VGL 1570	1570	6.9	176	17.6	448	15.0	382	141.2	70.6

*Nominal amp hour capacity at the 5 hour rate to 1.00 volts per cell @ 68°F (20°C)

