PowerSafe® OGi

Utility

Battery Performance Specifications

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EnerSys® Power/Full Solutions | RESERVE POWER

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PowerSafe® OGi

Features and Benefits

- Capacity range 60 to 280 Ah
- High energy design with space efficient foot prints
- 100% Capacity at delivery
- Rod style low-antimony alloy flat plate positive grid suited for switchgear, utility and telecom applications
- Proven grommet terminal seal
- 20 year design life @77˚F (25˚C) in float applications
- Manual maintenance readings can be taken on individual cells to fulfil NERC™ requirements

Construction

- Thick positive plates provide long discharge rates and long life
- Terminals - elevated color coded lead plated copper alloy M10 insert
- Cover - AcryloNitrile Butadiene Styrene (ABS) UL94-HB
- Container - six and three multi-cell units are made of durable, high impact resistant clear Styrene Acrylonitrile (SAN) allowing for visual inspection of the plates and electrolyte level, five and two multi-cell units are available upon request (for 58 and 59 cell strings only)
- Electrolyte - 1.240 Specific Gravity at the maximum level line @ 77˚F (25˚C)
- Separator - microporous with glass fiber mat

Installation and Operation

- Float charging voltage recommended average = 2.23 v/c @ 77˚F (25˚C)
- Equalization charge voltage recommended average = 2.33 v/c @ 77˚F (25˚C)
- Vent type: Flame Arrestor- Optional Funnel Flame Arrestor (AR17269)
- Connectors -Insulated, rigid copper inter-cell and inter-unit connectors with insulated inter-tier/step cables
- Screws - insulated Stainless Steel M10 x 22 mm screws (use 22mm socket)

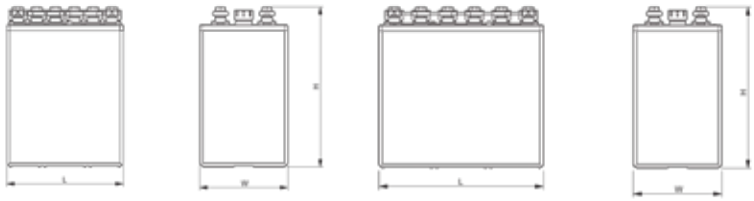
Standards

- Design is compliant with the demanding DIN 40737-3 and IEC 60896-11 specifications
- The management systems governing the manufacture of this product are ISO 9001:2008 and ISO 14001:2004 certified

General Specifications

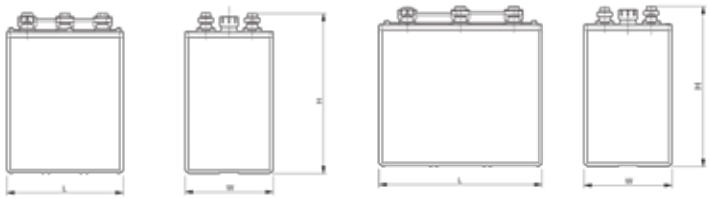
Battery Type	Nominal Voltage (V)	Nominal Capacity†	Nominal Dimensions						Typical Weight		Battery Short Circuit Current (Amps)	Cell Internal Resistance* Milli-Ohms	Electrolyte (1.240 S.G.)				Pure Acid (H_2SO_4) Acid				Lead Weight (per jar)	
			Length		Width		Height						Volume (per jar)		Weight (per jar)		Volume (per jar)		Weight (per jar)			
			in	mm	in	mm	in	mm	lbs	kg			gal	L	lbs	kg	gal	L	gal	L	lbs	kg
6 OGi 60	12	56	10.71	272	8.07	205	15.20	385	88.32	40.10	1150	1.75	2.32	8.77	23.98	10.88	0.54	2.06	8.18	3.71	53.64	24.33
6 OGi 80	12	84	10.71	272	8.07	205	15.20	385	106.37	48.30	1730	1.17	2.24	8.47	23.15	10.50	0.53	1.99	7.90	3.58	71.23	32.31
6 OGi 110	12	112	10.71	272	8.07	205	15.20	385	122.19	55.40	2310	0.88	2.16	8.17	22.32	10.13	0.51	1.92	7.61	3.45	89.09	40.1
6 OGi 140	12	140	14.96	380	8.07	205	15.20	385	158.75	72.00	2880	0.70	3.01	11.38	31.10	14.11	0.71	2.67	10.61	4.81	107.21	48.63
6 OGi 170	12	168	14.96	380	8.07	205	15.20	385	175.10	79.40	3460	0.58	3.24	12.28	33.57	15.23	0.76	2.89	11.45	5.19	125.34	56.85
3 OGi 200	6	197	10.71	272	8.07	205	15.20	385	95.87	43.50	4040	0.50	1.22	4.63	12.65	5.74	0.29	1.09	4.32	1.96	71.59	32.47
3 OGi 225	6	225	10.71	272	8.07	205	15.20	385	103.27	46.80	4610	0.44	1.21	4.57	12.48	5.66	0.28	1.07	4.26	1.93	80.65	36.58
3 OGi 250	6	253	14.96	380	8.07	205	15.20	385	127.26	57.70	5190	0.39	2.00	7.56	20.67	9.38	0.47	1.78	7.05	3.20	89.71	40.69
3 OGi 280	6	281	14.96	380	8.07	205	15.20	385	134.72	61.10	5770	0.35	1.96	7.41	20.26	9.19	0.46	1.74	6.91	3.13	98.64	44.74

** Resistance values are for reference only and not intended to represent an Ohmic Value or Baseline Measurement*
† *8 hr rate 1.75Vpc @ 77˚ F (25˚C)*



6 OGi 60
6 OGi 80
6 OGi 110

6 OGi 140
6 OGi 170



3 OGi 200
3 OGi 225

3 OGi 250
3 OGi 280

Constant Current Discharge Performance Data

Discharge Currents (Amperes) to 1.75Vpc at 77°F (25°C)

Battery Type	Nominal Capacity*	Standby Time (Minutes)			Standby Time (Hours)									
		1	15	30	1	2	3	4	5	6	7	8	10	20
6 OGi 60	56	147	92.0	62.9	39.3	23.0	16.4	12.9	10.6	9.00	7.90	7.00	5.70	3.00
6 OGi 80	84	220	138	94.4	58.9	34.4	24.6	19.3	15.9	13.6	11.9	10.5	8.60	4.60
6 OGi 110	112	293	184	126	78.5	45.9	32.8	25.7	21.2	18.1	15.8	14.0	11.5	6.10
6 OGi 140	140	367	230	157	98.2	57.4	41.0	32.1	26.5	22.6	19.8	17.5	14.4	7.60
6 OGi 170	168	440	276	189	118	68.9	49.2	38.6	31.8	27.1	23.7	21.1	17.2	9.10
3 OGi 200	197	513	322	220	138	80.4	57.4	45.0	37.1	31.7	27.7	24.6	20.1	10.7
3 OGi 225	225	586	368	252	157	91.9	65.6	51.4	42.4	36.2	31.6	28.1	23.0	12.2
3 OGi 250	253	660	414	283	177	103	73.8	57.8	47.7	40.7	35.6	31.6	25.9	13.7
3 OGi 280	281	733	460	315	196	115	82.0	64.3	53.0	45.2	39.5	35.1	28.7	15.2

Discharge Currents (Amperes) to 1.81Vpc at 77°F (25°C)

Battery Type	Nominal Capacity*	Standby Time (Minutes)			Standby Time (Hours)									
		1	15	30	1	2	3	4	5	6	7	8	10	20
6 OGi 60	56	115	79.1	56.2	36.2	21.8	15.8	12.5	10.3	8.90	7.70	6.90	5.70	3.00
6 OGi 80	84	172	119	84.3	54.4	32.7	23.7	18.7	15.5	13.3	11.6	10.3	8.50	4.50
6 OGi 110	112	229	158	112	72.5	43.6	31.6	24.9	20.6	17.7	15.5	13.8	11.3	6.00
6 OGi 140	140	286	198	141	90.6	54.4	39.5	31.1	25.8	22.1	19.4	17.2	14.2	7.50
6 OGi 170	168	344	237	169	109	65.3	47.4	37.4	31.0	26.6	23.2	20.7	17.0	9.00
3 OGi 200	197	401	277	197	127	76.2	55.3	43.6	36.1	31.0	27.1	24.1	19.8	10.5
3 OGi 225	225	458	316	225	145	87.1	63.2	49.8	41.3	35.4	31.0	27.6	22.6	12.0
3 OGi 250	253	515	356	253	163	98.0	71.1	56.0	46.5	39.8	34.8	31.0	25.5	13.5
3 OGi 280	281	573	396	281	181	109	79.0	62.3	51.6	44.3	38.7	34.5	28.3	15.0

**Nominal Ah capacity based on the 8 hour rate to 1.75Vpc at 77˚F (25˚C)*

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