

FLOODED AND GEL TUBULAR PLATE BATTERY

Innovative Technology.
Proven Expertise.
Best in Class Solutions.



Discover[®]
Innovative Battery Solutions

OPzS/OPzV Cyclic Tubular Plate Battery

BENEFITS AND FEATURES

LONG SERVICE LIFE

Tubular positive plates, unique sliding pole design and special alloy compositions offer superior cycle and service life.

PERFORMANCE AND RELIABILITY

Optimized design, high quality raw materials, and state-of-the-art production facilities ensure industry leading performance that exceeds all applicable international standards.

MAINTENANCE AND OPTIMIZATION

Low Maintenance (OPzS): Designed with reduced topping up needs. Transparent containers for easy visual electrolyte level monitoring.
Maintenance-free (OPzV): Designed without water topping-up needs. Vertical and horizontal installation.

SAFETY

Compliant with Global Standards and verified by independent third party certification agencies. Flame retardant containers and centralized gassing and watering kits available upon request.

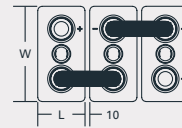
OPTIMUM TOTAL COST OF OWNERSHIP (TCO)

Low cost of ownership particularly in hybrid systems where using batteries can greatly reduce the Genset daily run time, resulting in fuel savings and less CO2 emission.

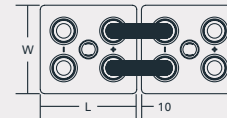
CERTIFIED QUALITY

- "Long Life" according to Eurobat classification
- Compliant with IEC 60896-21 and 60896-22 (OPzV)
- Compliant with DIN 40742 specifications (OPzV)
- Compliant with IEC 61427 requirements for photovoltaic energy systems (OPzV)
- Certified to EN ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007

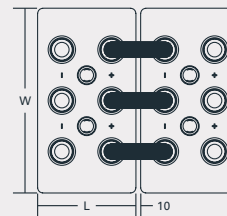
DRAWINGS



2V - 2 Pole

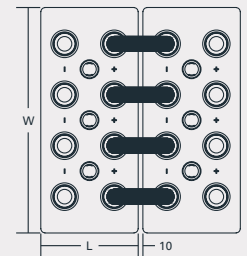
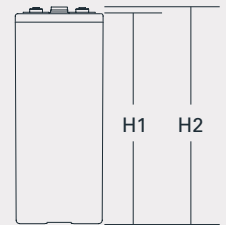


2V - 4 Pole



2V - 6 Pole

H1: Height over lid
H2: Height over pillar

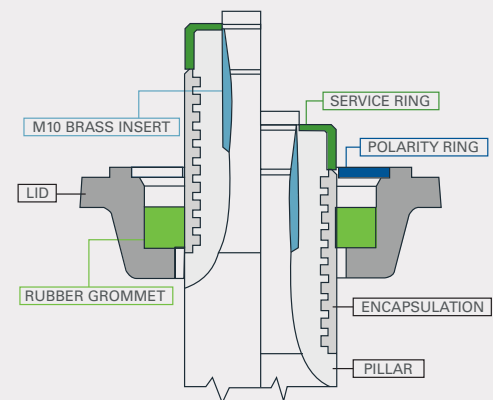


2V - 8 Pole

PILLAR SEALING DESIGN

M10 THREADED TERMINAL
TORQUE: 23NM

Maintains an airtight seal even when the plates expand and grow throughout the lifetime of the cell.



OPZS PRODUCT RANGE

Type No.	NOMINAL CAPACITY					Poles	MECHANICAL CHARACTERISTICS									
	240 HR	120 HR	100 HR	20 HR	10 HR		Length		Width		Height*		Height**		Weight	
	1.85VPC at 20°C / 68°F			1.75VPC at 27°C / 80°F			IN	MM	IN	MM	IN	MM	IN	MM	LB	KG
2 VOLT CELLS																
2VRE-400TF	197	187	183	139	126	2	8.2	208	4.1	105	14.4	367	15.4	392	30.8	14
2VRE-500TF	274	263	258	198	180	2	8.2	208	4.1	105	14.4	367	15.4	392	35.2	16
2VRE-600TF	310	300	294	237	215	2	8.2	208	4.1	105	14.4	367	15.4	392	39.6	18
2VRE-800TF	391	378	370	297	270	2	8.2	208	4.9	126	14.4	367	15.4	392	46.2	21
2VRE-900TF	470	454	445	356	324	2	8.2	208	5.8	147	14.4	367	15.4	392	55.1	25
2VRE-1100TF	574	553	542	436	396	2	8.2	208	4.9	126	19.0	484	20.0	509	59.5	27
2VRE-1300TF	686	661	648	521	474	2	8.2	208	5.8	147	19.0	484	20.0	509	70.5	32
2VRE-1500TF	780	750	735	595	541	2	8.2	208	6.6	168	19.0	484	20.0	509	81.5	37
2VRE-1800TF	948	904	886	670	609	2	8.2	208	5.8	147	25.8	656	26.8	682	83.7	38
2VRE-2000TF	1006	966	947	739	672	2	8.2	208	5.8	147	25.8	656	26.8	682	90.3	41
2VRE-2500TF	1286	1230	1205	920	836	4	8.3	212	7.6	193	25.8	656	26.8	682	85.9	39
2VRE-2600TF	1330	1278	1252	982	893	4	8.3	212	7.6	193	25.8	656	26.8	682	132.2	60
2VRE-3000TF	1546	1484	1454	1131	1028	4	8.3	212	9.2	235	25.9	659	26.9	684	154.3	70
2VRE-3200TF	1656	1592	1560	1225	1114	4	8.3	212	9.2	235	25.9	659	26.9	684	163.1	74
2VRE-3800TF	1985	1908	1870	1462	1329	4	8.3	212	10.9	277	25.9	658	26.8	683	191.8	87
2VRE-4400TF	2283	2216	2172	1785	1623	4	8.3	212	10.9	277	31.8	809	32.8	834	224.8	102
2VRE-4500TF	2294	2226	2181	1793	1630	4	8.3	212	10.9	277	31.8	809	32.8	834	233.6	106
2VRE-5500TF	2868	2770	2715	2176	1978	6	8.4	215	15.7	400	30.8	784	31.8	809	291	132
2VRE-5800TF	3019	2921	2863	2325	2114	6	8.4	215	15.7	400	30.8	784	31.8	809	304.2	138
2VRE-5900TF	3065	2972	2913	2405	2186	6	8.4	215	15.7	400	30.8	784	31.8	809	321.8	146
2VRE-7600TF	3917	3780	3704	2958	2689	8	8.4	214	19.2	489	30.7	782	31.7	807	357.1	162
2VRE-8200TF	4217	4076	3994	3219	2926	8	8.4	214	19.2	489	30.7	782	31.7	807	394.6	179
2VRE-8600TF	4639	4484	4394	3540	3219	8	8.4	214	22.7	578	30.8	784	31.8	809	443.1	201
2VRE-9200TF	4769	4620	4528	3697	3361	8	8.4	214	22.7	578	30.8	784	31.8	809	460.7	209

OPZV PRODUCT RANGE

Type No.	NOMINAL CAPACITY					Poles	MECHANICAL CHARACTERISTICS									
	240 HR	120 HR	100 HR	20 HR	10 HR		Length		Width		Height*		Height**		Weight	
	1.85VPC at 20°C / 68°F			1.75VPC at 27°C / 80°F			IN	MM	IN	MM	IN	MM	IN	MM	LB	KG
2 VOLT CELLS																
2VRE-600TG	307	305	301	246	224	2	8.2	208	4.1	105	14.4	367	15.4	392	41.8	19
2VRE-800TG	382	380	376	308	280	2	8.2	208	4.9	126	14.4	367	15.4	392	48.5	22
2VRE-900TG	459	457	452	370	336	2	8.2	208	5.8	147	14.4	367	15.4	392	57.3	26
2VRE-1100TG	567	564	556	446	405	2	8.2	208	4.9	126	19.0	484	20.0	509	68.3	31
2VRE-1300TG	681	678	668	535	486	2	8.2	208	5.8	147	19.0	484	20.0	509	79.3	36
2VRE-1600TG	797	793	782	624	567	2	8.2	208	6.6	168	19.0	484	20.0	509	92.5	42
2VRE-1900TG	987	982	968	759	690	2	8.2	208	5.8	147	25.8	656	26.8	681	110.2	50
2VRE-2600TG	1313	1306	1287	1012	920	4	8.3	212	7.6	193	25.8	657	26.8	682	145.5	66
2VRE-3200TG	1643	1635	1610	1265	1150	4	8.3	212	9.2	235	25.9	659	26.9	684	180.7	82
2VRE-3900TG	1979	1969	1938	1518	1380	4	8.3	212	10.9	277	25.9	658	26.8	683	213.8	97
2VRE-4400TG	2238	2227	2197	1782	1620	4	8.3	212	10.9	277	31.8	809	32.8	834	246.9	112
2VRE-5900TG	2981	2966	2927	2376	2160	6	8.4	215	15.7	400	30.8	784	31.8	809	343.9	156
2VRE-7400TG	3723	3704	3655	2970	2700	8	8.4	214	19.2	489	30.7	782	31.7	807	418.8	190
2VRE-8200TG	4095	4074	4021	3267	2970	8	8.4	214	22.7	578	30.8	784	31.8	809	476.2	216
2VRE-8900TG	4483	4461	4402	3564	3240	8	8.4	214	22.7	578	30.8	784	31.8	809	498.2	226
2VRE-9700TG	4857	4833	4769	3861	3510	8	8.4	214	22.7	578	30.8	784	31.8	809	520.3	236

* Height over lid. ** Height over pillar.



Innovative Battery Solutions

Discover Energy Corp. attempts to ensure the correctness of the product description and data contained herein. We reserve the right to change designs, specifications and pricing at any time without notice or obligation. It is the responsibility of the reader of this information to verify any and all information presented herein.