RESERVE POWER

Eternity TECHNOLOGIES

OPzV Solar

VRLA Gel Deep Cycle Batteries

POWER FOR TOMORROW TODAY

OPzV Solar Battery

With an extensive product range available Eternity Technologies prides itself on world-class product design, production processes, technical development, cost structure and global locations.

Eternity Technologies valve regulated lead-acid batteries for the solar power and renewable energy market. With an innovative Gel-Technology design Eternity Technologies OPzV batteries have a reliable maintenance-free and leakage-free construction.

OPzV Solar Technology

Positive plate

High energy density tubular design with lead calcium alloy ensures low self-discharge rates and low float currents

Negative plate

Industry leading negative plate design

Separator

High-porosity and corrosion-resistant ensures maximum capacity for the lifetime of the cell

Container

Manufactured from Acrylonitrile-Butadiene-Styrene (ABS) which is durable and offers good resistance to heat and chemicals. UL94-V0 flame retardant option also available

Terminal

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

Gauntlet

Non-woven, high-capacity polyester gauntlet

Electrolyte

Silica-based-gel-form electrolyte that has no water loss and therefore maintenance free

Lid

Manufactured from Acrylonitrile-Butadiene-Styrene (ABS) which is durable and heat resistant

Features of OPzV Solar Batteries...

High energy density and cyclic performance

Robust tubular positive electrode design, compliant with DIN 40742

Low self discharge rate allows for up to 2 years shelf life

Operating temperature -20°C to +55°C

20 year float life at 20°C (68°F)

EUROBAT design life: Long Life > 12 years

Fully recyclable with low CO_2 footprint

3000+ cycles @ 60% D.O.D @IUI charging

Applications...

Solar / Wind Power Systems

Traffic Systems

Hydro Power Generation

Off grid Solutions

Telecommunications

Power Distribution Companies

Compliant with: EC 60896-21/22/ IEC61427

Recyclable

OPzV Solar

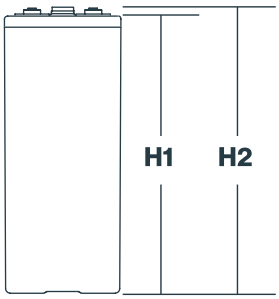
Cell Type	Plate (Ah)	Max. Length (mm)	Max. Width (mm)	Max. Height over lid (mm)	Max. Height over pillar (mm)	Typical max weight (kg)	Internal resistance (mOhm)	Short circuit current (A)	Capacity (Ah) C120 - 1.85V Cell at 25°C
2 OPzV-ET 140SOLAR	50	105	208	360	375	13.2	1.93	1050	141
3 OPzV-ET 210SOLAR	50	105	208	360	375	15.7	1.30	1600	212
4 OPzV-ET 280SOLAR	50	105	208	360	375	17.8	1.05	1995	282
5 OPzV-ET 350SOLAR	50	126	208	360	375	21.5	0.79	2600	356
6 OPzV-ET 400SOLAR	50	147	208	360	375	25.7	0.63	3300	417
5 OPzV-ET 500SOLAR	70	126	208	475	490	29.8	0.62	3350	516
6 OPzV-ET 600SOLAR	70	147	208	475	490	34.8	0.54	3900	618
7 OPzV-ET 700SOLAR	70	168	208	475	490	40.3	0.47	4400	717
6 OPzV-ET 900SOLAR	100	147	208	650	665	48.9	0.49	4300	884
7 OPzV-ET 1050SOLAR	100	147	208	650	665	52.4	0.41	4900	1031
8 OPzV-ET 1200SOLAR	100	215	193	650	665	66.0	0.39	5200	1181
9 OPzV-ET 1350SOLAR	100	215	235	650	665	75.7	0.38	5445	1329
10 OPzV-ET 1500SOLAR	100	215	235	650	665	81.4	0.33	6050	1471
11 OPzV-ET 1600SOLAR	100	215	277	650	665	90.8	0.28	7150	1618
12 OPzV-ET 1800SOLAR	100	215	277	650	665	95.4	0.26	7900	1766
13 OPzV-ET 1950SOLAR	100	215	277	650	665	99.4	0.25	8300	1865
11 OPzV-ET 1800SOLAR	125	215	277	800	815	107.3	0.27	7800	1834
12 OPzV-ET 2000SOLAR	125	215	277	800	815	110.5	0.24	8500	2000
13 OPzV-ET 2113SOLAR	125	215	277	800	815	116.7	0.22	9500	2173
14 OPzV-ET 2300SOLAR	125	215	400	775	790	146.6	0.21	10000	2340
15 OPzV-ET 2438SOLAR	125	215	400	775	790	150.1	0.19	11000	2508
16 OPzV-ET 2600SOLAR	125	215	400	775	790	158.1	0.18	11500	2675
17 OPzV-ET 2800SOLAR	125	215	400	775	790	162.6	0.17	12200	2842
18 OPzV-ET 2970SOLAR	125	215	400	775	790	166.2	0.16	13000	3038
19 OPzV-ET 3135SOLAR	125	215	490	775	790	186.9	0.15	14000	3207
20 OPzV-ET 3300SOLAR	125	215	490	775	790	192.4	0.14	14500	3376
21 OPzV-ET 3440SOLAR	125	215	580	775	790	215.0	0.13	15450	3543
22 OPzV-ET 3600SOLAR	125	215	580	775	790	220.6	0.12	16700	3712
23 OPzV-ET 3785SOLAR	125	215	580	775	790	226.0	0.11	18200	3881
24 OPzV-ET 3950SOLAR	125	215	580	775	790	229.1	0.10	20000	4050
25 OPzV-ET 4090SOLAR	125	215	580	775	790	237.0	0.10	20200	4219
26 OPzV-ET 4250SOLAR	125	215	580	775	790	240.1	0.10	20500	4388

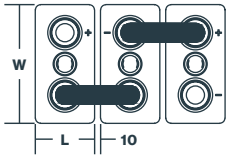
Horizontal installation possible up to 13 OPzV-ET 1950SOLAR *For horizontal storage of cells larger than 13 OPzV-ET 1950SOLAR please contact Eternity Technologies

V0 option available

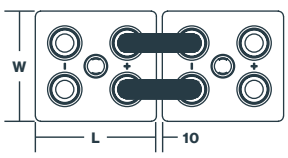
H1: Height over lid
H2: Height over pillar
M10 threaded terminal
Torque: 23Nm

Not to scale

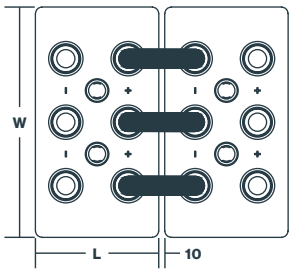




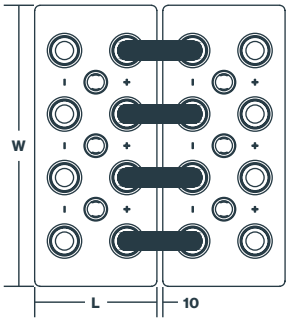
2 OPzV-ET 140SOLAR to 7 OPzV-E1050SOLAR



8 OPzV-ET 1200SOLAR to 13 OPzV-ET 2113SOLAR



14 OPzV-ET 2300SOLAR to 18 OPzV-ET 2970SOLAR

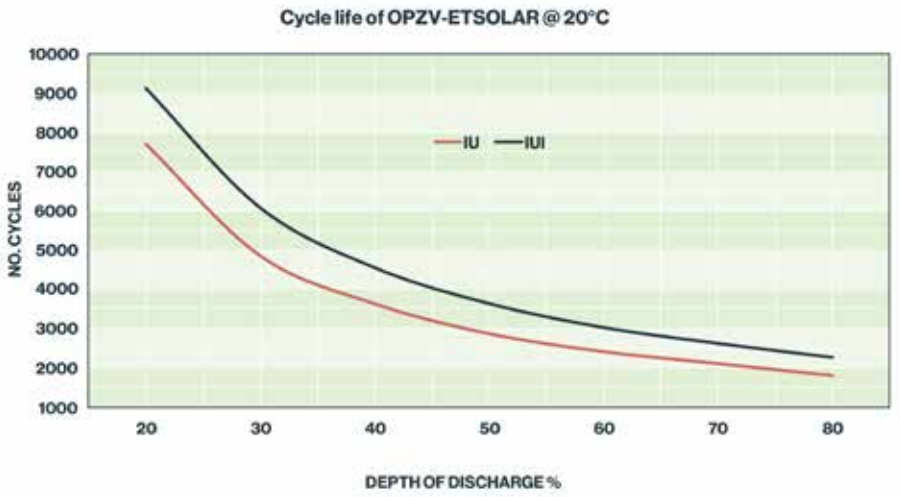


19 OPzV-ET 3135SOLAR to 26 OPzV-ET 4250SOLAR

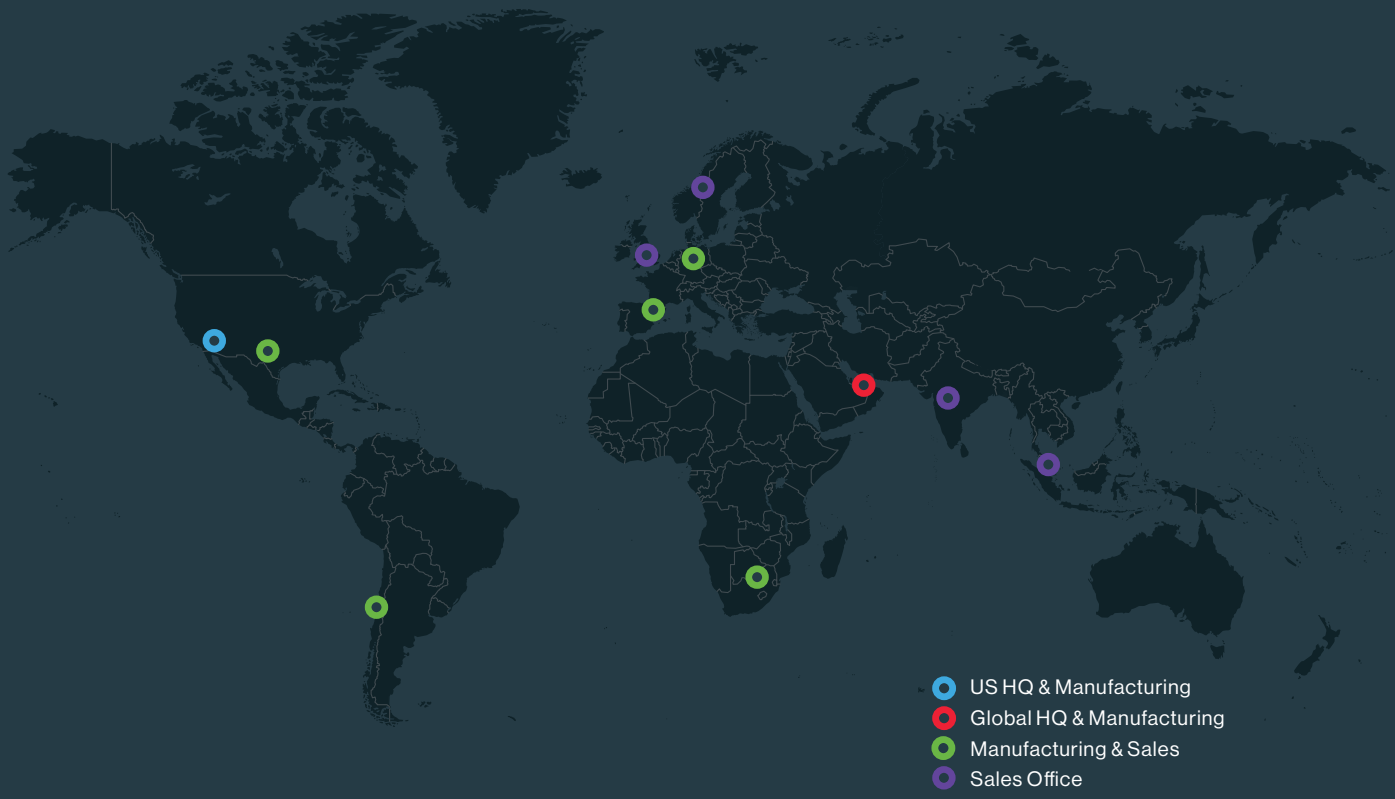
Capacities C10 - C240

Cell Type Ue (100%) / VPC Ref Temp	C10 1.80 25°C	C24 1.80 25°C	C48 1.80 25°C	C72 1.80 25°C	C100 1.85 25°C	C120 1.85 25°C	C240 1.85 25°C
2 OPzV-ET 140SOLAR	110	126	127	139	137	141	146
3 OPzV-ET 210SOLAR	165	189	190	208	205	212	218
4 OPzV-ET 280SOLAR	221	252	254	278	274	282	291
5 OPzV-ET 350SOLAR	278	317	320	351	345	356	367
6 OPzV-ET 400SOLAR	326	371	375	410	404	417	430
5 OPzV-ET 500SOLAR	403	460	464	508	500	516	532
6 OPzV-ET 600SOLAR	482	550	555	608	598	618	637
7 OPzV-ET 700SOLAR	560	638	644	705	694	717	739
6 OPzV-ET 900SOLAR	691	739	794	870	856	884	912
7 OPzV-ET 1050SOLAR	806	862	927	1015	999	1031	1064
8 OPzV-ET 1200SOLAR	923	987	1061	1163	1144	1181	1218
9 OPzV-ET 1350SOLAR	1038	1111	1194	1308	1287	1329	1370
10 OPzV-ET 1500SOLAR	1149	1253	1322	1448	1425	1471	1517
11 OPzV-ET 1600SOLAR	1264	1378	1454	1593	1568	1618	1669
12 OPzV-ET 1800SOLAR	1379	1504	1586	1738	1710	1766	1821
13 OPzV-ET 1950SOLAR	1457	1588	1676	1836	1807	1865	1923
11 OPzV-ET 1800SOLAR	1433	1633	1648	1805	1776	1834	1891
12 OPzV-ET 2000SOLAR	1563	1782	1797	1969	1938	2000	2063
13 OPzV-ET 2113SOLAR	1698	1936	1953	2139	2105	2173	2241
14 OPzV-ET 2300SOLAR	1828	2084	2103	2304	2267	2340	2414
15 OPzV-ET 2438SOLAR	1959	2233	2253	2468	2429	2508	2586
16 OPzV-ET 2600SOLAR	2090	2382	2403	2633	2591	2675	2758
17 OPzV-ET 2800SOLAR	2220	2531	2553	2798	2753	2842	2931
18 OPzV-ET 2970SOLAR	2373	2706	2729	2990	2943	3038	3133
19 OPzV-ET 3135SOLAR	2505	2856	2881	3157	3107	3207	3307
20 OPzV-ET 3300SOLAR	2637	3006	3033	3323	3270	3376	3481
21 OPzV-ET 3440SOLAR	2768	3156	3183	3488	3433	3543	3654
22 OPzV-ET 3600SOLAR	2900	3306	3335	3654	3596	3712	3828
23 OPzV-ET 3785SOLAR	3032	3457	3487	3820	3760	3881	4002
24 OPzV-ET 3950SOLAR	3164	3607	3639	3987	3923	4050	4176
25 OPzV-ET 4090SOLAR	3296	3757	3790	4153	4087	4219	4351
26 OPzV-ET 4250SOLAR	3428	3908	3942	4319	4251	4388	4525

Cycles vs DOD



A global leader in the industrial battery market providing world-class products for Motive Power, Reserve Power and Bloc Power applications.



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