RESERVE POWER

Eternity TECHNOLOGIES

OPZS Solar

Flooded Deep Cycle Batteries

POWER FOR TOMORROW TODAY

OPzS 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 flooded lead-acid batteries for the solar power & renewable energy market. Optimized design results in a low maintenance, reliable energy storage solution for critical and unstable conditions.

OPzS Solar Technology

Positive plate

High energy density tubular design with low antimony alloy for extended watering intervals

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 Styrene-Acrylonitrile resin (SAN) which is durable and heat resistant

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

Acid density of 1.24kg/l ensures low self-discharge rates and long design life of the cell

Lid

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

Features of OPzS Solar Batteries...

High energy density

Robust tubular positive electrode design, compliant with DIN 40736

Minimal maintenance due to low antimony alloy and large electrolyte volume

Operating temperature 20°C to +55°C

Low self discharge rate of approximately 3% per month at 20°C

EUROBAT design life: Long Life > 12 years

Fully recyclable with low CO_2 footprint

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

High cyclic performance

Compliant with: IEC 60896-11/ IEC61427

Applications...

Oil & Gas

Solar / Wind Power Systems

Traffic Systems

Hydro Power Generation

Off grid Solutions

Telecommunications

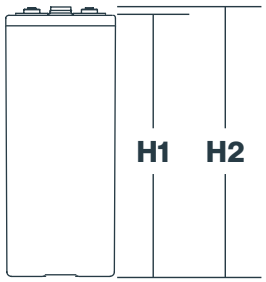
Power Distribution Companies

Recyclable

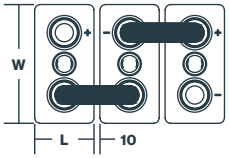
Cell Specification

Cell Type	Plate (Ah)	Max.Length (mm)	Max.Width (mm)	Max.Height over lid (mm)	Max.Height over pillar (mm)	Max. filled weight (kg)	Internal resistance (mOhm)	Short circuit current (A)
2 OPzS-ET 160SOLAR	50	105	208	360	375	13.6	0.95	1075
3 OPzS-ET 235SOLAR	50	105	208	360	375	15.6	0.94	1613
4 OPzS-ET 315SOLAR	50	105	208	360	375	17.4	0.89	2150
5 OPzS-ET 395SOLAR	50	126	208	360	375	21.2	0.74	2650
6 OPzS-ET 475SOLAR	50	147	208	360	375	25.1	0.63	3200
5 OPzS-ET 520SOLAR	70	126	208	475	490	28.5	0.67	2850
6 OPzS-ET 625SOLAR	70	147	208	475	490	33.8	0.57	3450
7 OPzS-ET 725SOLAR	70	168	208	475	490	38.0	0.5	4050
6 OPzS-ET 915SOLAR	100	147	208	650	665	46.5	0.47	4300
7 OPzS-ET 1070SOLAR	100	147	208	650	665	50.3	0.35	5000
8 OPzS-ET 1220SOLAR	100	215	193	650	665	62.8	0.33	5700
9 OPzS-ET 1375SOLAR	100	215	235	650	665	72.7	0.27	6400
10 OPzS-ET 1525SOLAR	100	215	235	650	665	76.7	0.27	7100
11 OPzS-ET 1680SOLAR	100	215	277	650	665	87.1	0.23	7850
12 OPzS-ET 1830SOLAR	100	215	277	650	665	91.7	0.23	8550
13 OPzS-ET 1980SOLAR	100	215	277	650	665	93.7	0.23	9260
11 OPzS-ET 1925SOLAR	125	215	277	800	815	107.3	0.23	7746
12 OPzS-ET 2100SOLAR	125	215	277	800	815	111.5	0.23	8450
13 OPzS-ET 2250SOLAR	125	215	277	800	815	116.1	0.22	9872
14 OPzS-ET 2450SOLAR	125	215	400	775	790	146.3	0.17	10650
15 OPzS-ET 2600SOLAR	125	215	400	775	790	151.5	0.17	11391
16 OPzS-ET 2800SOLAR	125	215	400	775	790	156.4	0.17	12150
17 OPzS-ET 3000SOLAR	125	215	400	775	790	160.7	0.15	12920
18 OPzS-ET 3150SOLAR	125	215	400	775	790	162.3	0.15	13700
19 OPzS-ET 3300SOLAR	125	215	490	775	790	189.7	0.13	14440
20 OPzS-ET 3500SOLAR	125	215	490	775	790	194.5	0.13	15200
21 OPzS-ET 3675SOLAR	125	215	580	775	790	215.6	0.11	15989
22 OPzS-ET 3850SOLAR	125	215	580	775	790	220.5	0.11	16750
23 OPzS-ET 4025SOLAR	125	215	580	775	790	225.5	0.11	17538
24 OPzS-ET 4200SOLAR	125	215	580	775	790	227.3	0.11	18300
25 OPzS-ET 4375SOLAR	125	215	580	775	790	235.2	0.11	19038
26 OPzS-ET 4550SOLAR	125	215	580	775	790	236.8	0.11	19800

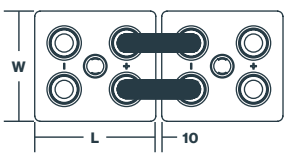
H1: Height over lid
H2: Height over pillar
M10 threaded terminal
Torque: 23Nm



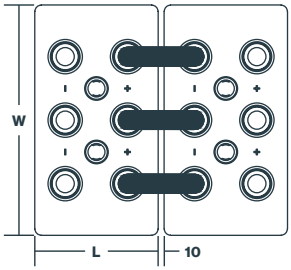
Not to scale



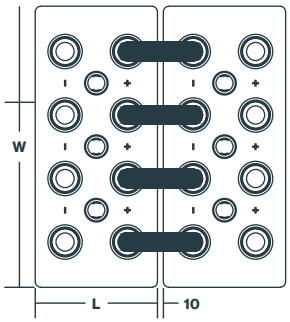
2 OPzS-ET160SOLAR to 7 OPzS-ET1070SOLAR



8 OPzS-ET1220SOLAR to 13 OPzS-ET2250SOLAR



14 OPzS-ET2450SOLAR to 18 OPzS-ET3150SOLAR

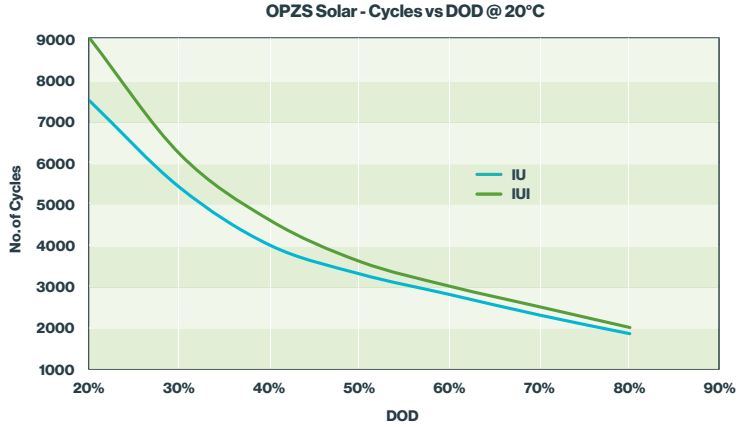


19 OPzS-ET3300SOLAR to 26 OPzS-ET4550SOLAR

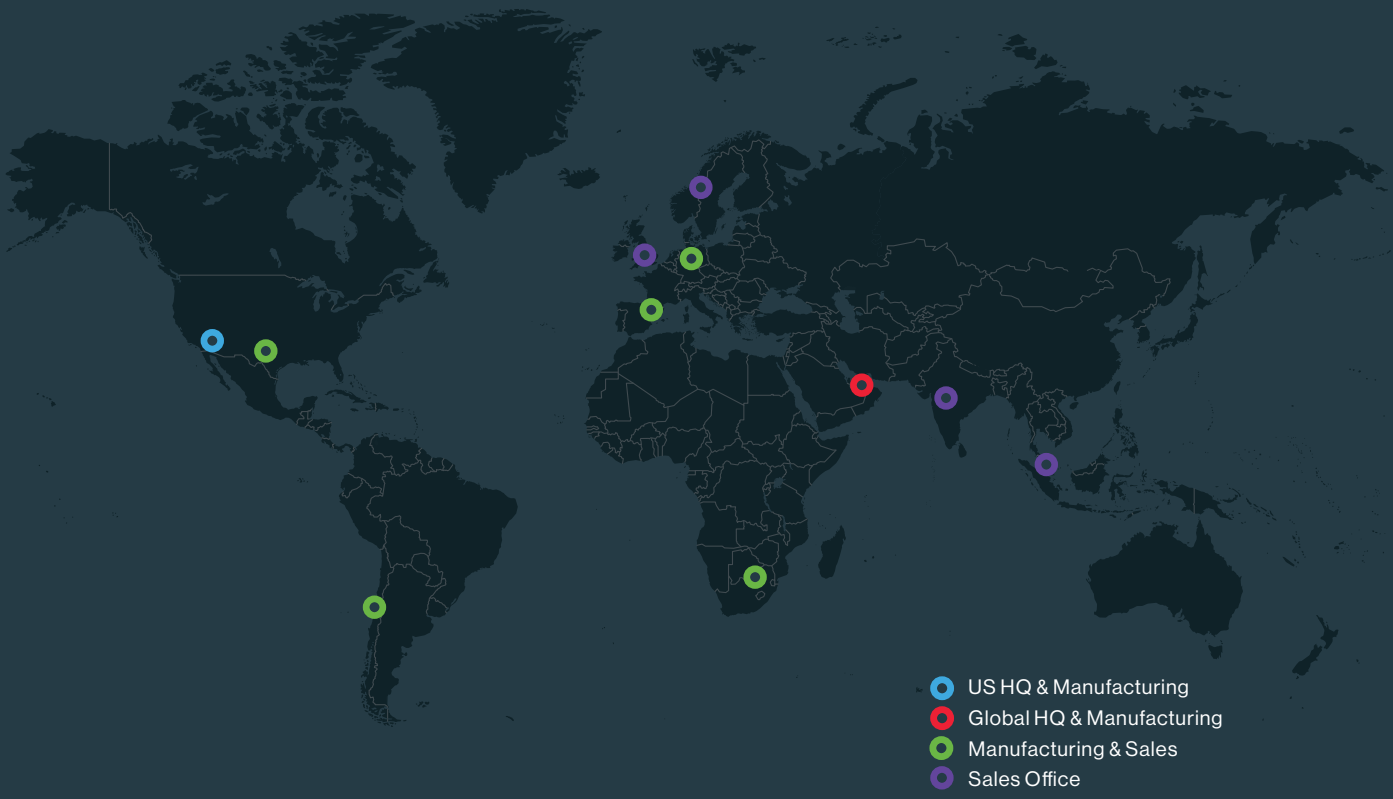
Capacities C10 - C240

Cell Type Ue (100%) / VPC Ref Temp	C10 1.80 25°C	C12 1.80 25°C	C20 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 OPzS-ET 160SOLAR	116	117	128	134	144	152	158	163	169
3 OPzS-ET 235SOLAR	174	176	192	201	216	229	237	244	254
4 OPzS-ET 315SOLAR	232	235	255	268	288	305	316	325	339
5 OPzS-ET 395SOLAR	288	293	317	335	359	381	394	407	423
6 OPzS-ET 475SOLAR	345	351	379	402	431	457	474	488	508
5 OPzS-ET 520SOLAR	412	419	453	464	465	499	519	536	557
6 OPzS-ET 625SOLAR	494	503	544	557	559	597	623	644	668
7 OPzS-ET 725SOLAR	577	586	637	650	658	697	727	747	780
6 OPzS-ET 915SOLAR	711	721	783	804	877	937	915	942	981
7 OPzS-ET 1070SOLAR	829	843	913	940	1025	1096	1069	1102	1146
8 OPzS-ET 1220SOLAR	948	961	1044	1072	1168	1249	1218	1257	1307
9 OPzS-ET 1375SOLAR	1066	1080	1174	1206	1314	1406	1371	1416	1470
10 OPzS-ET 1525SOLAR	1185	1201	1304	1340	1461	1563	1523	1571	1634
11 OPzS-ET 1680SOLAR	1303	1320	1435	1474	1607	1718	1676	1730	1796
12 OPzS-ET 1830SOLAR	1421	1441	1566	1608	1753	1875	1828	1885	1960
13 OPzS-ET 1980SOLAR	1494	1561	1645	1690	1842	1970	1921	1981	2060
11 OPzS-ET 1925SOLAR	1558	1575	1709	1754	1821	1917	1923	1983	2062
12 OPzS-ET 2100SOLAR	1700	1718	1864	1914	1987	2091	2098	2163	2250
13 OPzS-ET2250SOLAR	1841	1861	2014	2074	2144	2266	2273	2343	2437
14 OPzS-ET2450SOLAR	1983	2004	2168	2233	2309	2440	2448	2524	2624
15 OPzS-ET2600SOLAR	2124	2148	2323	2393	2474	2614	2623	2704	2812
16 OPzS-ET 2800SOLAR	2266	2291	2478	2552	2639	2788	2797	2884	2999
17 OPzS-ET 3000SOLAR	2408	2434	2632	2711	2810	2962	2973	3064	3187
18 OPzS-ET 3150SOLAR	2549	2577	2787	2871	2976	3136	3148	3245	3374
19 OPzS-ET 3300SOLAR	2691	2720	2941	3030	3141	3310	3322	3425	3562
20 OPzS-ET 3500SOLAR	2833	2863	3096	3190	3306	3484	3497	3605	3749
21 OPzS-ET 3675SOLAR	2974	3008	3252	3350	3478	3660	3672	3786	3937
22 OPzS-ET 3850SOLAR	3116	3151	3407	3509	3644	3834	3847	3966	4124
23 OPzS-ET 4025SOLAR	3257	3294	3579	3668	3821	4008	4021	4146	4312
24 OPzS-ET 4200SOLAR	3399	3437	3735	3827	3987	4182	4196	4326	4499
25 OPzS-ET 4375SOLAR	3540	3580	3890	3988	4154	4356	4371	4507	4687
26 OPzS-ET 4550SOLAR	3682	3723	4046	4147	4320	4530	4546	4687	4874

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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