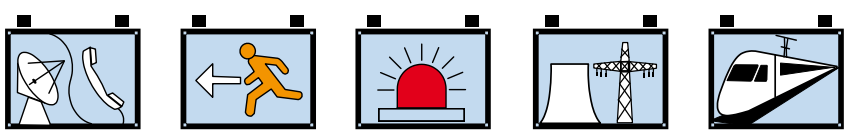
Guarantee

EverExceed®
power your applications

Modular Max AGM Range VRLA

»Premium quality for uninterrupted communication«



www.everexceed.com

Modular Max AGM Range VRLA

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power your applications

Modular Max Range Valve Regulated Lead Acid (V.R.L.A.) 2 Volt Flat Pasted Plate Battery

EverExceed Modular Max Range Valve Regulated Lead Acid (V.R.L.A.) batteries are designed for the long standby back-up power requirements of wireless / PCS telecommunications, MTSO's, central offices, utilities, switch gear and control applications. EverExceed advanced AGM absorbed electrolyte technology coupled with thick positive plates and a welded / epoxy, dual post seal ensures reliable performance, safety, outstanding battery life and value. Battery has a design life of 20 years and complies with BS6290 Part 4, EUROBAT (IEC 896-2) standards and is a recognized component of UL1989 under the Standby Battery Category.

Applicable Operating temperature range:
-40°C(-40°F) to +70°C (+158°F)

Ideal Operating temperature range:
+20°C (+68°F) to +30°C (+86°F)

Storage time from a fully charged condition:
12 months at 20°C ~25°C / 68°F~77°F.
For each 9°C / 15°F rise, reduce the storage time by half.

Applications

- Telecommunications
- Emergency Lighting
- Navigation Aids
- UPS system
- Switchgear
- Communications
- Grid scale energy storage
- Cellular Radio
- Control Systems
- Standby Power Supply
- Photovoltaic / Solar
- Remote/Hybrid Sites
- Off-Grid/Renewable
- Other cycling applications

Innovative Features

- Valve Regulated Lead Acid (V.R.L.A.) design
- Fully tank formed plates
- Never needs addition of water
- Spill-proof and leak-proof
- Proprietary Fixed Orifice Plate Pasting technology applying active materials on both sides of the grid for consistent cell-to-cell performance, higher capacity and uniform grid protection.
- Operates at a low internal pressure
- For use in vertical or horizontal position
- Each cell has a low pressure safety release venting system
- Standard: Reinforced ABS (UL 94HB) container and cover. Optional: Flame-retardant reinforced ABS container and cover compliant with U.L.94 V-0 with an Oxygen limiting Index of greater than 28%
- Nano-Carbon enhanced active material to maximize cycle performance and PSoC operation
- Low calcium Lead/Tin alloy plates for efficient gas recombination for long life in both cycling and float applications

Specifications

- Positive Plate: Lead-Calcium-Tin Flat Plate Grid
- Negative Plate: Flat Pasted Grid
- Electrolyte: Dilute Sulfuric Acid
- Container & Cover:
  Standard: Reinforced ABS (UL 94HB) container and cover.
  Optional: Flame-retardant reinforced ABS container and cover compliant with U.L.94 V-0 with an Oxygen limiting Index of greater than 28%.
- Separators: Absorptive Glass Mat Separator
- Float Voltage: 2.25 VPC +/- 1% at 20ºC /25ºC
- Cycle service: 2.35 VPC +/- 1% at 20ºC /25ºC
- Max. Charge Voltage: 2.40 VPC at 20/25° C
- Safety One-Way Valve: 2-3PSI self-resealing
- Terminals: Silver plated Integral Copper Insert

No transport restrictions

Surface transport. Classified as non-hazardous material as related to DOT-CFR Title 49 parts 171-189.

Marine transport. Classified as non-hazardous material as per IMDG amendment 27.

Air transport. Complies with IATA/ICAO, Special provision A67.

EverExceed®
power your applications

Modular Max AGM Range VRLA

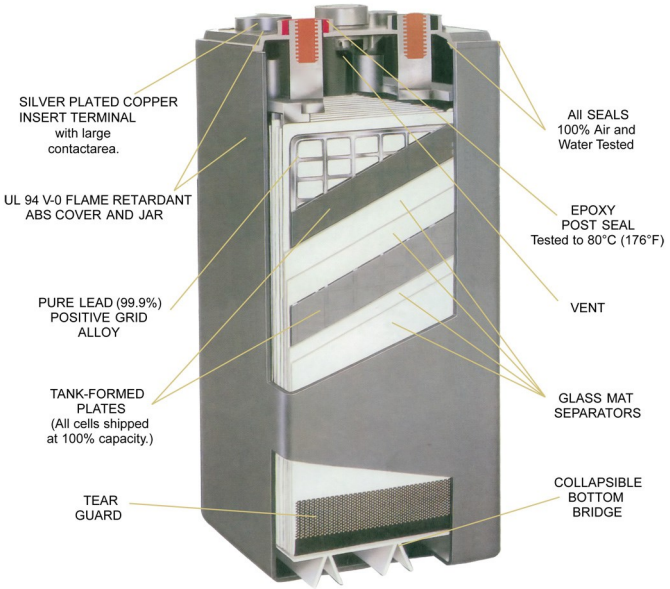
EverExceed Modular Max range batteries offer an ideal solution for large capacity, valve regulated lead-acid battery requirements. The EverExceed Modular Max range battery module design concept, with its modular racking system, provides a battery system with a compact, quick and simple installation process for NEBS applications.

The EverExceed Modular Max range battery system's cutting edge technology incorporates an enhanced cell design. The enhanced cell incorporates thicker positive plates for longer life. The welded/epoxy, dual post seal design provides the highest integrity seal in the industry. The large copper post design also enhances the high rate performance.

EverExceed Modular Max range cells, with their optimized recombination technology and extra thick plates, provide excellent performance and service life across a wide range of telecommunications applications.

Construction

- Positive plate - Thick 0.245″ (6.2mm) lead-calcium-tin grids minimize corrosion and prolong life.
- Negative plate - Balanced lead-calcium grids optimize recombination efficiency.
- AGM separator - Mechanically strong, low electrical resistance, micro porous glass fibre which completely absorbs the electrolyte into its structure.
- Container/Cover - Standard: Reinforced ABS (UL 94HB) container and cover.
  Optional: Flame-retardant reinforced ABS container and cover compliant with U.L.94 V-0 with an Oxygen limiting Index of greater than 28%.
- Thermally welded case-to-cover bond to eliminate leakage.
- Containers are single-piece construction.
- Electrolyte - Diluted sulfuric acid.
- Terminal post - Lead casting terminal. Threaded copper insert, with large surface area, to provide maximum conductivity.
- Terminal seal - Ring burn with secondary epoxy resin seal is 100% water bath tested in the factory and proven in service.
- Relief valve - Operates at 2-3 psi and is complete with integral flame arrestor.



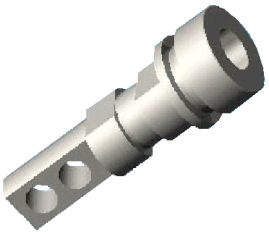
Features

- 100% initial battery capacity before delivery.
- VRLA recombinant technology - low maintenance - no watering required.
- High-Compression Absorbed Glass Mat technology (AGM) for greater than 99% recombination efficiency.
- Up to 3000 Ah in a single cell.
- Frame design allows for maximum heat dissipation.
- NEBS zone 2 and zone 4 qualified.
- Cell can be configured 4, 6 or 8 cells wide or tailor solution for maximum flexibility.
- Simplified installation.
- Top termination standard for easy maintenance.
- Clear flame retardant safety shields allow for easy visual inspection without removal

Modular Max AGM Range Electrical Specifications & Dimensions

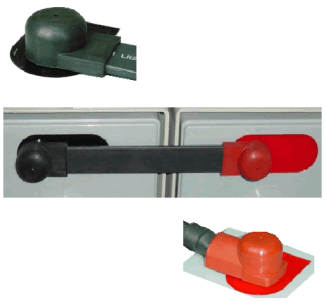
Model No.	Nominal Voltage	Nominal AH Cap. @10hr to 1.80VPC	Outline dimensions (mm/inch)								Weight		Terminal Type	No. of Terminal	Internal Resist mOhms	Max. Charge Current	Short Circuit Current
			Length		Width		Height		Total Height								
			mm	inch	mm	inch	mm	inch	mm	inch	kg	lbs					
MR 2-200 Max	2	200	90.0	3.54	181	7.13	346	13.6	365	14.4	13.7	30.2	F-M8	2	0.50	40	1620
MR 2-300 Max	2	300	124	4.88	181	7.13	346	13.6	365	14.4	19.2	42.3	F-M8	2	0.43	60	2410
MR 2-400 Max	2	400	158	6.22	181	7.13	346	13.6	365	14.4	25.0	55.1	F-M8	2	0.36	80	3220
MR 2-500 Max	2	500	191	7.52	181	7.13	346	13.6	365	14.4	30.5	67.2	F-M8	2	0.30	100	4100
MR 2-600 Max	2	600	225	8.86	181	7.13	346	13.6	365	14.4	35.5	78.3	F-M8	2	0.28	120	4860
MR 2-800 Max	2	800	303	11.9	181	7.13	346	13.6	365	14.4	48.0	106	F-M8	4	0.20	160	6400
MR 2-1000 Max	2	1000	370	14.6	181	7.13	346	13.6	365	14.4	61.0	134	F-M8	4	0.19	200	7900
MR 2-1200 Max	2	1200	475	18.7	175	6.90	330	13.0	365	13.2	77.5	171	F-M8	8	0.17	230	9500
MR 2-1600 Max	2	1600	318	12.5	363	14.3	369	14.5	388	15.3	100	220	F-M8	8	0.16	320	13200
MR 2-2000 Max	2	2000	385	15.2	363	14.3	369	14.5	388	15.3	125	276	F-M8	8	0.10	400	16200
MR 2-2500 Max	2	2500	490	19.3	350	13.8	345	13.6	383	15.1	175	386	F-M8	8	0.09	500	20200
MR 2-3000 Max	2	3000	568	22.4	363	14.3	369	14.5	388	15.3	185	408	F-M8	12	0.08	600	24200

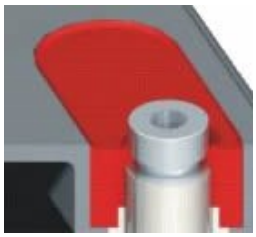
Terminal Type



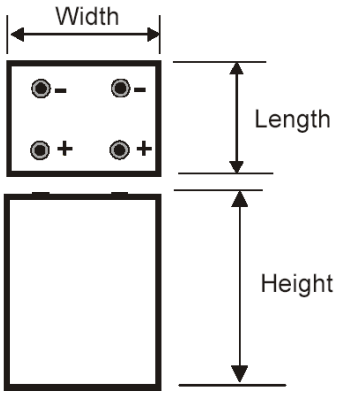
ST1: Copper Insert type terminal with 16 mm Diameter insert. Standing 5mm above the top of the battery case with M8 thread M8 bolt. Flat and Spring washer supplied.

ST2: Copper Insert type terminal with 18 mm Diameter insert.





Cell Dimensions for Rack Layout



Battery Float Voltage	
Ambient Temperature	Recommended Applied Float Voltage VPC
0~9°C	2.33-2.35
10~14°C	2.30-2.33
15~19°C	2.27-2.30
20~24°C	2.27-2.30
25~29°C	2.25-2.27
30~34°C	2.23-2.25
35~40°C	2.21-2.23

Modular Max AGM Range Discharge Ampere Hours Data @ 20°C

Battery Model	End VPC	Discharge Data Amps @ 20°C						End VPC	Discharge Data Ampere Hours @ 20°C										
		Discharge Time In Minutes							Discharge Time In Hours										
		5	10	15	30	45	60		1.5	2	3	4	5	6	8	10	12	20	24
MR 2-200 Max	1.80	342	293	244	188	148	122	1.85	123	136	151	157	163	170	183	189	194	199	210
	1.75	402	324	277	200	157	130	1.80	130	144	160	166	172	180	194	200	204	209	223
	1.67	448	375	308	207	161	132	1.75	136	150	167	174	180	188	202	210	214	220	233
MR 2-300 Max	1.80	512	439	366	283	222	183	1.85	185	204	227	235	244	255	274	283	289	297	314
	1.75	602	485	415	299	235	194	1.80	195	216	240	249	258	270	291	300	306	314	336
	1.67	670	562	461	310	241	198	1.75	204	226	251	260	269	282	304	313	319	327	348
MR 2-400 Max	1.80	683	586	488	376	295	244	1.85	245	272	303	313	324	339	366	377	384	394	420
	1.75	801	646	553	398	313	259	1.80	260	288	321	332	344	360	388	400	408	419	446
	1.67	893	749	615	412	321	263	1.75	272	300	333	346	359	375	405	420	425	436	466
MR 2-500 Max	1.80	854	732	610	470	370	305	1.85	308	340	378	392	406	425	458	472	481	494	528
	1.75	1003	809	693	498	392	324	1.80	326	360	399	416	430	450	485	500	510	523	559
	1.67	1118	937	770	516	401	329	1.75	339	378	417	432	449	470	506	522	533	547	581
MR 2-600 Max	1.80	1025	878	732	564	443	366	1.85	368	408	453	468	487	509	549	566	577	592	631
	1.75	1203	970	831	598	470	388	1.80	390	432	480	500	515	540	582	600	612	628	672
	1.67	1341	1124	923	619	481	395	1.75	407	450	501	520	540	563	607	626	638	655	698
MR 2-800 Max	1.80	1366	1171	976	752	590	488	1.85	491	544	603	628	650	680	732	755	770	790	840
	1.75	1605	1294	1108	797	626	518	1.80	521	576	639	664	690	720	776	800	816	838	890
	1.67	1789	1499	1231	826	642	526	1.75	543	602	669	692	720	752	810	835	852	875	931
MR 2-1000 Max	1.80	1708	1464	1220	939	738	610	1.85	614	679	754	784	811	850	915	943	962	987	1051
	1.75	2005	1617	1384	996	782	647	1.80	650	720	801	832	860	900	970	1000	1020	1047	1114
	1.67	2234	1873	1538	1032	802	657	1.75	678	751	834	866	897	940	1012	1040	1064	1092	1164
MR 2-1200 Max	1.80	2050	1757	1464	1127	886	732	1.85	737	815	905	941	973	1020	1098	1132	1155	1186	1261
	1.75	2406	1940	1661	1195	939	777	1.80	780	864	961	998	1032	1080	1164	1200	1224	1257	1337
	1.67	2681	2247	1846	1238	963	788	1.75	814	901	1001	1040	1076	1128	1214	1248	1277	1310	1397
MR 2-1600 Max	1.80	2733	2342	1952	1503	1181	976	1.85	981	1086	1206	1256	1295	1359	1464	1510	1548	1589	1682
	1.75	3202	2582	2210	1590	1250	1033	1.80	1040	1152	1281	1328	1375	1440	1552	1600	1644	1687	1781
	1.67	3569	2992	2457	1648	1281	1050	1.75	1083	1198	1335	1392	1435	1450	1616	1660	1704	1749	1855
MR 2-2000 Max	1.80	3416	2928	2440	1879	1476	1220	1.85	1227	1358	1509	1572	1625	1698	1832	1890	1932	1983	2112
	1.75	4011	3235	2769	1993	1566	1294	1.80	1301	1440	1599	1660	1720	1800	1944	2000	2040	2094	2227
	1.67	4470	3747	3077	2064	1604	1315	1.75	1356	1502	1671	1732	1795	1878	2024	2090	2124	2180	2326
MR 2-2500 Max	1.80	4270	3660	3050	2349	1845	1525	1.85	1534	1698	1886	1965	2031	2123	2290	2363	2415	2479	2640
	1.75	5014	4044	3461	2491	1958	1618	1.80	1626	1800	1999	2075	2150	2250	2430	2500	2550	2618	2784
	1.67	5588	4684	3846	2580	2005	1644	1.75	1695	1878	2089	2165	2244	2348	2530	2613	2655	2725	2908
MR 2-3000 Max	1.80	5124	4392	3660	2818	2214	1830	1.85	1839	2038	2265	2348	2435	2550	2744	2830	2892	2969	3168
	1.75	6016	4850	4153	2989	2348	1941	1.80	1950	2162	2403	2492	2580	2700	2912	3000	3060	3141	3336
	1.67	6704	5620	4614	3096	2406	1972	1.75	2034	2254	2505	2596	2690	2817	3040	3130	3192	3276	3480

Actual Battery Discharge Data may be +/-5% of figures shown above.

Modular Max AGM Range Discharge Amps Data @ 20°C

Battery Model	End VPC	Discharge Data Amps @ 20°C						End VPC	Discharge Data Amps @ 20°C										
		Discharge Time In Minutes							Discharge Time In Hours										
		5	10	15	30	45	60		1.5	2	3	4	5	6	8	10	12	20	24
MR 2-200 Max	1.80	342	293	244	188	148	122	1.85	81.9	68.0	50.4	39.2	32.5	28.4	22.9	18.9	16.2	10.0	8.77
	1.75	402	324	277	200	157	130	1.80	86.7	72.0	53.3	41.5	34.4	30.0	24.3	20.0	17.0	10.5	9.28
	1.67	448	375	308	207	161	132	1.75	90.6	75.2	55.7	43.4	35.9	31.4	25.3	21.0	17.8	11.0	9.70
MR 2-300 Max	1.80	512	439	366	283	222	183	1.85	123	102	75.5	58.7	48.8	42.5	34.3	28.3	24.1	14.8	13.1
	1.75	602	485	415	299	235	194	1.80	130	108	80.0	62.3	51.6	45.0	36.4	30.0	25.5	15.7	14.0
	1.67	670	562	461	310	241	198	1.75	136	113	83.5	64.9	53.8	47.0	38.0	31.3	26.6	16.4	14.5
MR 2-400 Max	1.80	683	586	488	376	295	244	1.85	163	136	101	78.2	64.8	56.6	45.7	37.7	32.0	19.7	17.5
	1.75	801	646	553	398	313	259	1.80	173	144	107	83.0	68.8	60.0	48.5	40.0	34.0	20.9	18.6
	1.67	893	749	615	412	321	263	1.75	181	150	111	86.5	71.7	62.6	50.6	42.0	35.4	21.8	19.4
MR 2-500 Max	1.80	854	732	610	470	370	305	1.85	205	170	126	98.0	81.2	70.8	57.2	47.2	40.1	24.7	22.0
	1.75	1003	809	693	498	392	324	1.80	217	180	133	104	86.0	75.0	60.6	50.0	42.5	26.2	23.3
	1.67	1118	937	770	516	401	329	1.75	226	189	139	108	89.8	78.3	63.3	52.2	44.4	27.4	24.2
MR 2-600 Max	1.80	1025	878	732	564	443	366	1.85	245	204	151	117	97.4	84.9	68.6	56.6	48.1	29.6	26.3
	1.75	1203	970	831	598	470	388	1.80	260	216	160	125	103	90.0	72.8	60.0	51.0	31.4	28.0
	1.67	1341	1124	923	619	481	395	1.75	271	225	167	130	108	93.9	75.9	62.6	53.2	32.7	29.1
MR 2-800 Max	1.80	1366	1171	976	752	590	488	1.85	327	272	201	157	130	113	91.5	75.5	64.2	39.5	35.0
	1.75	1605	1294	1108	797	626	518	1.80	347	288	213	166	138	120	97.0	80.0	68.0	41.9	37.1
	1.67	1789	1499	1231	826	642	526	1.75	362	301	223	173	144	125	101	83.5	71.0	43.7	38.8
MR 2-1000 Max	1.80	1708	1464	1220	939	738	610	1.85	409	339	251	196	162	141	114	94.3	80.2	49.4	43.8
	1.75	2005	1617	1384	996	782	647	1.80	433	360	267	208	172	150	121	100	85.0	52.3	46.4
	1.67	2234	1873	1538	1032	802	657	1.75	452	375	278	216	179	156	126	104	88.7	54.6	48.5
MR 2-1200 Max	1.80	2050	1757	1464	1127	886	732	1.85	491	407	301	235	195	169	137	113	96.0	59.2	52.6
	1.75	2406	1940	1661	1195	939	777	1.80	519	432	321	250	206	180	145	120	102	62.8	55.8
	1.67	2681	2247	1846	1238	963	788	1.75	542	450	334	259	215	187	152	125	107	65.6	58.3
MR 2-1600 Max	1.80	2733	2342	1952	1503	1181	976	1.85	654	543	402	314	259	226	183	151	129	79.4	70.1
	1.75	3202	2582	2210	1590	1250	1033	1.80	693	576	427	332	275	240	194	160	137	84.4	74.2
	1.67	3569	2992	2457	1648	1281	1050	1.75	722	599	445	348	287	250	202	166	142	87.5	77.3
MR 2-2000 Max	1.80	3416	2928	2440	1879	1476	1220	1.85	818	679	503	393	325	283	229	189	161	99.2	88.0
	1.75	4011	3235	2769	1993	1566	1294	1.80	867	720	533	415	344	300	243	200	170	105	92.8
	1.67	4470	3747	3077	2064	1604	1315	1.75	904	751	557	433	359	313	253	209	177	109	96.9
MR 2-2500 Max	1.80	4270	3660	3050	2349	1845	1525	1.85	1023	849	629	491	406	354	286	236	201	124	110
	1.75	5014	4044	3461	2491	1958	1618	1.80	1084	900	666	519	430	375	304	250	213	131	116
	1.67	5588	4684	3846	2580	2005	1644	1.75	1130	939	696	541	449	391	316	261	221	136	121
MR 2-3000 Max	1.80	5124	4392	3660	2818	2214	1830	1.85	1226	1019	755	587	487	425	343	283	241	148	132
	1.75	6016	4850	4153	2989	2348	1941	1.80	1300	1081	801	623	516	450	364	300	255	157	139
	1.67	6704	5620	4614	3096	2406	1972	1.75	1356	1127	835	649	538	470	380	313	266	164	145

Actual Battery Discharge Data may be +/-5% of figures shown above.

Modular Max AGM Range Discharge Watts Data @ 20°C

Battery Model	End VPC	Discharge Watts Per Cell @ 20°C						End VPC	Discharge Watts @ 20°C										
		Discharge Time In Minutes							Discharge Time In Hours										
		5	10	15	30	45	60		1.5	2	3	4	5	6	8	10	12	20	24
MR 2-200 Max	1.80	615	533	448	348	280	234	1.85	158	132	96.2	76.9	64.0	56.0	45.5	37.7	32.1	26	17.7
	1.75	715	583	502	369	292	249	1.80	165	138	103	80.9	67.4	59.0	47.9	39.7	33.8	28	18.6
	1.67	770	657	552	378	299	251	1.75	171	143	107	83.8	69.8	61.1	49.7	41.3	35.2	29	19.3
MR 2-300 Max	1.80	922	799	672	521	421	351	1.85	236	197	147	115	95.9	83.9	68.2	56.4	48.1	39	26.4
	1.75	1071	873	752	553	437	373	1.80	248	207	155	121	101	88.5	71.9	59.5	50.7	41	28.0
	1.67	1153	983	826	567	447	377	1.75	256	214	160	125	105	91.5	74.4	61.6	52.5	43	28.9
MR 2-400 Max	1.80	1230	1066	895	695	561	468	1.85	314	262	196	153	128	112	90.8	75.2	64.1	52	35.1
	1.75	1427	1163	1001	737	582	496	1.80	331	276	207	162	135	118	95.9	79.4	67.6	55	37.1
	1.67	1536	1310	1100	755	596	502	1.75	341	285	213	167	139	122	99.1	82.1	69.9	57	38.4
MR 2-500 Max	1.80	1537	1332	1119	869	701	586	1.85	394	328	245	192	160	140	114	94.1	80.2	66	44.0
	1.75	1786	1456	1254	922	728	621	1.80	414	346	258	202	168	147	120	99.2	84.5	69	46.4
	1.67	1923	1640	1377	945	746	628	1.75	426	357	267	209	174	153	124	103	87.5	72	48.1
MR 2-600 Max	1.80	1845	1599	1343	1043	841	703	1.85	472	394	294	230	192	168	136	113	96.2	79	52.7
	1.75	2142	1747	1503	1106	874	745	1.80	496	415	310	243	202	177	144	119	101	83	55.7
	1.67	2306	1967	1652	1133	895	753	1.75	511	428	320	251	209	183	149	123	105	86	57.7
MR 2-800 Max	1.80	2460	2132	1791	1390	1122	937	1.85	629	525	392	307	256	224	182	151	128	105	70.3
	1.75	2857	2330	2005	1475	1165	994	1.80	662	553	413	324	270	236	192	159	135	110	74.3
	1.67	3076	2624	2203	1511	1194	1005	1.75	682	571	427	335	279	244	198	165	140	115	77.0
MR 2-1000 Max	1.80	3074	2664	2239	1738	1402	1171	1.85	786	656	490	384	320	280	227	188	160	131	87.8
	1.75	3568	2910	2505	1842	1455	1242	1.80	827	691	517	405	337	295	240	198	169	138	92.8
	1.67	3843	3277	2750	1888	1491	1255	1.75	852	713	533	418	348	305	248	205	175	143	96.1
MR 2-1200 Max	1.80	3689	3197	2687	2086	1683	1405	1.85	983	820	613	480	400	350	284	235	200	164	110
	1.75	4282	3492	3006	2211	1746	1491	1.80	1034	864	646	506	421	369	300	248	211	173	116
	1.67	4612	3932	3300	2266	1789	1506	1.75	1065	891	666	523	435	381	310	256	219	179	120
MR 2-1600 Max	1.80	5037	4263	3582	2781	2244	1874	1.85	1259	1051	784	614	511	448	364	301	256	209	141
	1.75	5700	4649	4001	2943	2325	1983	1.80	1324	1106	827	647	539	471	384	318	271	222	148
	1.67	6139	5235	4397	3015	2382	2005	1.75	1361	1138	852	668	557	487	396	327	279	228	154
MR 2-2000 Max	1.80	6149	5329	4477	3476	2805	2342	1.85	1573	1313	981	768	639	560	455	376	321	263	176
	1.75	7140	5823	5012	3686	2912	2484	1.80	1654	1382	1033	809	674	590	479	397	338	277	186
	1.67	7689	6558	5507	3778	2984	2511	1.75	1705	1426	1067	837	697	610	496	411	350	286	192
MR 2-2500 Max	1.80	7686	6661	5596	4345	3506	2928	1.85	1966	1641	1226	960	799	700	569	470	401	329	220
	1.75	8925	7279	6265	4608	3640	3105	1.80	2068	1728	1291	1011	843	738	599	496	423	346	233
	1.67	9611	8198	6884	4723	3730	3139	1.75	2131	1783	1334	1046	871	763	620	514	438	358	240
MR 2-3000 Max	1.80	9223	7993	6716	5214	4207	3514	1.85	2359	1969	1471	1152	959	839	682	564	481	394	265
	1.75	10708	8733	7517	5529	4368	3726	1.80	2482	2074	1550	1214	1011	885	719	595	507	415	279
	1.67	11532	9835	8260	5665	4475	3766	1.75	2557	2139	1601	1255	1045	915	744	616	525	430	289

Actual Battery Discharge Data may be +/-5% of figures shown above.

Modular Max Range Cell Installation Configuration

Modular Max Range cells can be mounted on / in vertical or horizontal racking system, below are EverExceed standard telecom 48VDC vertical / horizontal racks for choice.

Vertical installation (48V200~3000Ah Max)

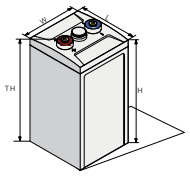
Model	Installation config.	Rack specification (mm/inch)						MAX specification (mm/inch)						Total weight (Kg) Battery included
		Length		Width		Height		Length		Width		Height		
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
48V200Ah	Single-layer vertical	1416	55.7	460	18.1	341	13.4	1476	58.1	480	18.9	409	16.1	350
	Double-layer vertical	712	28.0	460	18.1	870	34.3	801	31.5	480	18.9	942	37.1	356
48V300Ah	Single-layer vertical	1818	71.6	460	18.1	341	13.4	1878	73.9	480	18.9	409	16.1	485
	Double-layer vertical	913	35.9	460	18.1	870	34.3	1002	39.4	480	18.9	942	37.1	491
48V400Ah	Single-layer vertical	2508	98.7	413	16.3	341	13.4	2568	101.1	433	17.0	409	16.1	628
	Double-layer vertical	1258	49.5	413	16.3	870	34.3	1347	53.0	433	17.0	942	37.1	638
48V500Ah	Single-layer vertical	2508	98.7	480	18.9	341	13.4	2568	101.1	500	19.7	409	16.1	762
	Double-layer vertical	1258	49.5	480	18.9	870	34.3	1347	53.0	500	19.7	942	37.1	771
48V600Ah	Single-layer vertical	2508	98.7	547	21.5	341	13.4	2568	101.1	567	22.3	409	16.1	883
	Double-layer vertical	1258	49.5	547	21.5	870	34.3	1347	53.0	567	22.3	942	37.1	892
48V800Ah (Two sub-racks)	Single-layer vertical 1	5116	201	379	14.9	341	13.4	5248	206.6	399	15.7	409	16.1	1210
	Single-layer vertical 2	2508	98.7	858	33.8	341	13.4	2584	101.7	878	34.6	409	16.1	1210
	Double-layer vertical	2536	99.8	379	14.9	870	34.3	2655	104.5	399	15.7	942	37.1	1213
48V1000Ah (Two sub-racks)	Single-layer vertical 1	5116	201	446	17.6	341	13.4	5248	206.6	466	18.3	409	16.1	1498
	Single-layer vertical 2	2508	98.7	992	39.1	341	13.4	2584	101.7	1012	39.8	409	16.1	1498
	Double-layer vertical	2536	99.8	446	17.6	870	34.3	2655	104.5	466	18.3	942	37.1	1510
48V1200Ah (Two sub-racks in on layer)	Single-layer vertical	4584	180.5	722	28.4	428	16.9	4824	189.9	742	29.2	491	19.3	2666
	Double-layer vertical	2292	90.2	722	28.4	1082	42.6	2532	99.7	742	29.2	1145	45.1	2640
48V1600Ah (Two sub-racks in on layer)	Single-layer vertical	4584	180.5	722	28.4	428	16.9	4824	189.9	742	29.2	491	19.3	3050
	Double-layer vertical	2292	90.2	722	28.4	1082	42.6	2532	99.7	742	29.2	1145	45.1	3042
48V2000Ah (Two sub-racks in on layer)	Single-layer vertical	4584	180.5	856	33.7	428	16.9	4824	189.9	876	34.5	491	19.3	3270
	Double-layer vertical	2292	90.2	856	33.7	1082	42.6	2532	99.7	876	34.5	1145	45.1	3244
48V3000Ah (Two sub-racks)	Single-layer vertical	4584	180	1221	48.1	428	16.9	4824	189.9	1336	52.6	491	19.3	4744
	Double-layer vertical	2292	90.2	1316	51.8	1082	42.6	2532	99.7	1336	52.6	1145	45.1	4735

Four-layer horizontal installation (48V200~1000Ah Max)

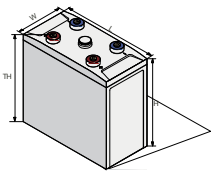
Model	Installation config.	Rack specification (mm/inch)						MAX specification (mm/inch)						Total weight (Kg) Battery included
		Length		Width		Height		Length		Width		Height		
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
48V200Ah	Four-layer horizontal	722	28.4	360	14.2	914	36.0	842	33.1	381	15.0	914	36.0	352
48V300Ah	Four-layer horizontal	923	36.3	360	14.2	914	36.0	1043	41.1	381	15.0	914	36.0	499
48V400Ah	Four-layer horizontal	1127	44.4	360	14.2	914	36.0	1247	49.1	381	15.0	914	36.0	646
48V500Ah	Four-layer horizontal	1328	52.3	360	14.2	914	36.0	1448	57.0	381	15.0	914	36.0	769
48V600Ah	Four-layer horizontal	1529	60.2	360	14.2	914	36.0	1649	64.9	381	15.0	914	36.0	893
48V800Ah	Four-layer horizontal	2088	82.2	360	14.2	914	36.0	2208	86.9	381	15.0	914	36.0	1254
48V1000Ah	Four-layer horizontal	2490	98.0	360	14.2	914	36.0	2610	102.8	381	15.0	914	36.0	1517

Six-layer horizontal installation (48V200~1000Ah Max)

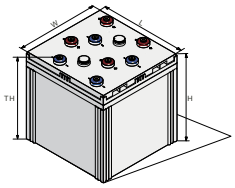
Model	Installation config.	Rack specification (mm/inch)						MAX specification (mm/inch)						Total weight (Kg) Battery included
		Length		Width		Height		Length		Width		Height		
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
48V200Ah	Six-layer horizontal	494	19.4	360	14.2	1354	53.3	614	24.2	381	15.0	1354	53.3	358
48V300Ah	Six-layer horizontal	628	24.7	360	14.2	1354	53.3	748	29.4	381	15.0	1354	53.3	506
48V400Ah	Six-layer horizontal	764	30.1	360	14.2	1354	53.3	884	34.8	381	15.0	1354	53.3	652
48V500Ah	Six-layer horizontal	898	35.4	360	14.2	1354	53.3	1018	40.1	381	15.0	1354	53.3	776
48V600Ah	Six-layer horizontal	1032	40.6	360	14.2	1354	53.3	1152	45.4	381	15.0	1354	53.3	899
48V800Ah	Six-layer horizontal	1434	56.5	360	14.2	1354	53.3	1554	61.2	381	15.0	1354	53.3	1267
48V1000Ah	Six-layer horizontal	1702	67.0	360	14.2	1354	53.3	1822	71.7	381	15.0	1354	53.3	1528



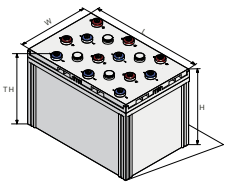
Modular 2-200~600 Max



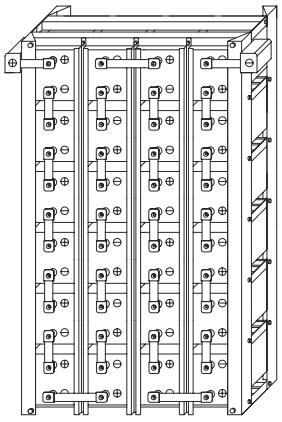
Modular 2-800~1000 Max

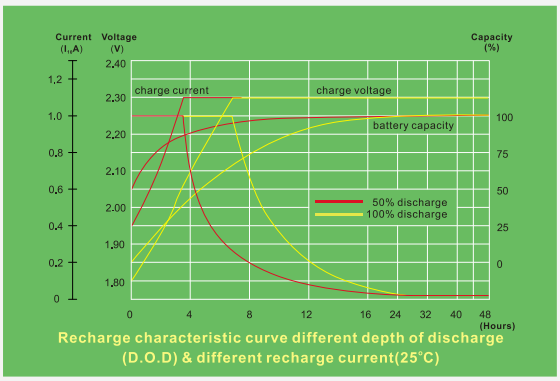


Modular 2-1250~2500 Max

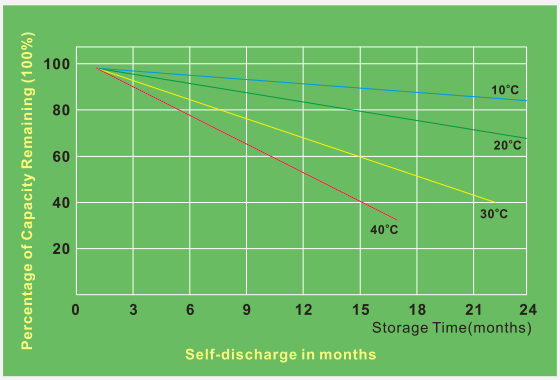


Modular 2-3000~4000 Max

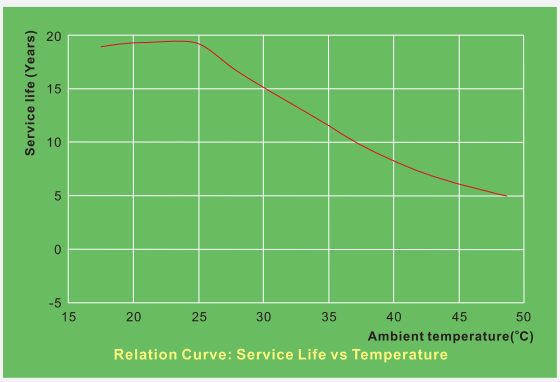




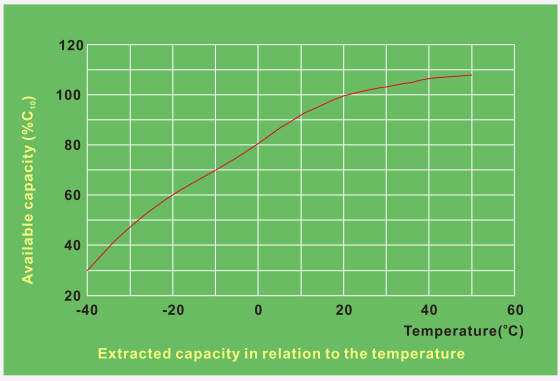
Recharge characteristic curve different depth of discharge (D.O.D) & different recharge current(25°C)



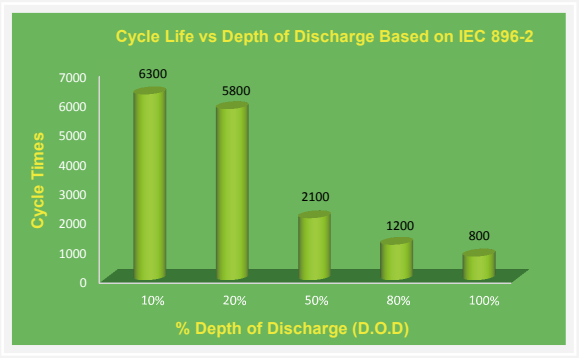
Self-discharge in months

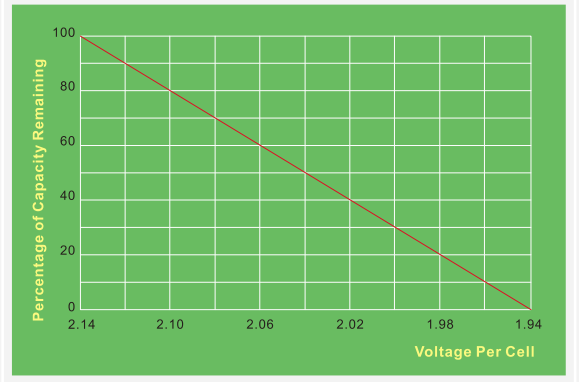


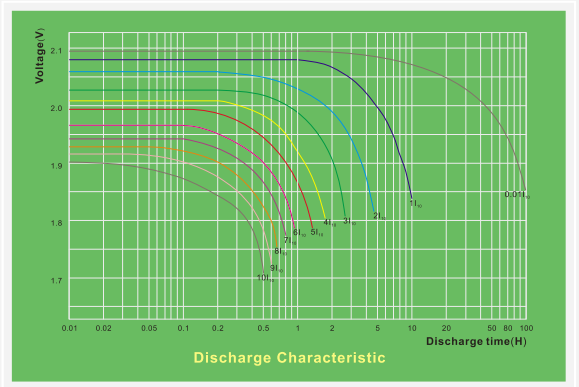
Relation Curve: Service Life vs Temperature



Extracted capacity in relation to the temperature







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