

EverExceed®
power your applications



Economical OPzS Tubular Eco Range

28-300AH(6V/12V Blocks)

Reliable capacities for increased security



Rubber insulated flexible copper cable intercell connector



Advanced designed tubular plates with lead selenium alloy reduces grid corrosion and increases life. Increasing surface area of active material improves high-rate capacity.

Construction

Positive plate	Tubular plate with low antimony / selenium / selenium alloy
Negative plate	Flat plate grid
Separation	Manganese combined with corrugated separator
CASE material	Reinforced PP, flame retardant optional
Cover material	Reinforced PP, flame retardant optional
Specific gravity	1.280 S.G. @ 25°C recommended - others available
Post design	Lock-proof with Brass contact
Intercell	Fully insulated flexible copper cables or copper plated linkers
Vent caps	Flip-top flame-arrestor type
Float Voltage	2.25 float without need to regulate
Equalize Voltage	2.33-2.40 float



Overview:

EverExceed Economical OP2S Tubular Eco Range vented batteries are 15 year stationary batteries and were developed for Solar, RV/Marine & general purpose applications. They are distinguished by their economical design, lead selenium tubular plate design, and their high tolerance to cycling.

The EverExceed Economical OP2S Tubular Eco Range lead Selenium blocks provide the best possible compromise in lead acid plate technology. By utilizing a proportion of selenium in the grid alloy, a dense fine grain structure is produced. This alloy is extremely corrosion-resistant and virtually eliminates inter-granular corrosion-one of the most common causes of cell failure. A lead selenium cell, therefore, combines the advantages of both lead calcium and lead antimony cells while exhibiting none of the disadvantages.

Features:

- Very high operationally reliability under rough operating conditions
- Low maintenance due to reduced antimony in the alloy and high electrolyte reserve
- Optimized plate design produces increased capacities compared to DIN
- Nominal capacity 28-300 Ah C20
- 15 years at 20 °C (80% remaining capacity from C20)
- Low gassing due to PbSb5SnSe alloy (EN 50272-2)
- Conforms to DIN 40 736 and DIN 40 737 T3
- Electrolyte: diluted sulphuric acid dN= 1.25 kg/l
- Completely recyclable

EverExceed Economical OPzS Tubular Eco Range Technical Characteristics and Data

DIN Type	Nom. Voltage (V)	CSE Ah @ 1.90VPC	Outline Dimensions (mm)			Weight (Wts and Kg)	Acid Weight (kg)	Pole Pairs	Internal Resist. acc. to IEC 60319 @ 20°C	Short Circuit Current	Terminal
			Length (L)	Width (Wd)	Height (H)						
TR9-1228	12	28.0	238	130	228	17	7	1	15.1	370	F-M6
TR9-1236	12	36.0	238	130	238	18	7	1	16.6	402	F-M6
TR9-1260	12	60.0	305	176	226	21	7	1	12.8	726	F-M6
TR9-1275	12	75.0	362	176	213	26	7	1	11.6	990	F-M6
TR9-12100	12	100	362	171	262	31	7	1	8.26	1320	F-M6
TR9-12120	12	120	362	171	262	33	7	1	7.72	1584	F-M6
TR9-12180	12	180	362	171	273	65	9	1	6.86	1980	F-M6
TR9-12240	12	240	600	180	300	66	12	1	6.46	1900	F-M6
TR9-12300	12	300	630	262	260	78	12	1	3.88	2167	F-M6
TR9-12360	12	360	630	262	260	80	18	1	3.23	3600	F-M6
TR9-6180	6	180	360	182	310	34	9	1	3.85	2070	F-M6
TR9-6200	6	200	368	190	286	38	9	1	3.68	2200	F-M6
TR9-6210	6	210	360	182	310	38	9	1	3.05	2615	F-M6
TR9-6230	6	230	360	182	310	38	9	1	3.23	2640	F-M6
TR9-6240	6	240	360	182	310	39	9	1	3.23	2760	F-M6
TR9-6260	6	260	360	182	310	40	10	1	3.16	2875	F-M6
TR9-6280	6	280	360	182	310	42	10	1	1.91	3220	F-M6

Acid density ρ_{20} = 1.280 (kg/l)

EverExceed Economical OPzS Tubular Eco Range Discharge Data Amperes at 20°C to 1.90-1.87 VPC

DIN Type	Discharge Data Amps @ 20°C to 1.90 VPC												
	Discharge Time in Minutes				Discharge Time in Hours								
	5	10	15	30	1	2	3	4	5	6	8	10	20
TR9-1228	17.0	14.8	13.3	10.6	8.03	6.26	4.46	3.82	3.49	3.18	2.70	2.27	1.18
TR9-1236	21.2	18.6	16.6	13.2	10.0	7.81	5.55	4.76	4.37	3.96	3.38	2.84	1.67
TR9-1260	33.3	28.0	26.1	20.8	15.8	12.3	8.71	7.81	6.88	6.28	5.21	4.48	2.31
TR9-1275	45.4	38.6	36.7	28.3	21.5	16.7	11.9	10.2	8.96	8.36	7.26	6.38	3.15
TR9-12100	60.8	52.8	47.8	37.8	28.7	22.3	15.8	13.7	12.3	11.4	9.85	8.10	4.20
TR9-12120	72.7	63.4	57.0	45.3	34.4	26.8	19.0	16.4	15.0	13.7	11.8	9.73	5.05
TR9-12180	81.3	77.9	70.1	58.0	43.9	31.4	24.3	20.8	18.2	16.3	13.8	11.1	5.73
TR9-12240	122	105	93.8	78.7	66.0	47.9	32.9	27.4	24.2	21.8	18.0	14.8	7.66
TR9-12300	162	129	117	98.4	72.9	52.4	40.8	34.3	30.3	27.2	22.6	18.4	9.85
TR9-12360	183	158	140	118	87.1	62.9	48.7	41.1	36.3	32.8	26.9	22.1	11.9
TR9-6180	101	88.1	80.6	61.3	42.0	33.6	25.6	20.2	17.6	15.2	12.6	10.5	7.00
TR9-6200	112	97.9	89.5	71.3	47.8	42.9	32.9	28.0	24.9	22.6	18.8	15.0	7.78
TR9-6210	118	103	94.0	83.2	60.7	49.0	34.8	29.4	26.1	23.8	19.4	15.8	8.17
TR9-6230	129	113	103	91.2	66.9	49.3	37.9	32.2	28.8	25.8	21.2	17.2	8.84
TR9-6240	134	118	107	96.1	69.4	51.9	39.3	33.8	29.9	27.0	22.2	18.0	9.33
TR9-6260	140	122	112	98.1	72.3	53.6	41.2	36.0	31.1	28.1	23.1	18.8	9.72
TR9-6280	167	137	126	111	81.0	60.1	48.1	39.2	34.8	31.8	25.9	21.0	10.8

DIN Type	Discharge Data Amps @ 20°C to 1.87 VPC												
	Discharge Time in Minutes				Discharge Time in Hours								
	5	10	15	30	1	2	3	4	5	6	8	10	20
TR9-1228	20.4	17.8	16.8	12.7	9.66	8.94	5.07	4.31	3.89	3.49	2.93	2.42	1.29
TR9-1236	25.8	22.3	19.8	16.9	12.1	9.67	6.34	5.39	4.84	4.37	3.67	3.03	1.67
TR9-1260	40.1	34.1	31.1	23.0	18.0	13.6	9.97	8.46	7.61	6.88	5.76	4.76	2.68
TR9-1275	54.6	47.8	42.3	34.1	25.9	18.6	13.6	11.9	10.4	9.36	7.85	6.49	3.36
TR9-12100	72.8	63.7	58.5	45.5	34.5	24.8	18.1	16.4	13.8	12.8	10.8	8.80	4.68
TR9-12120	87.4	76.9	67.7	56.6	41.4	29.7	21.7	19.5	16.8	15.0	12.6	10.4	5.38
TR9-12180	101	94.1	83.0	69.2	50.7	36.4	27.7	23.4	20.3	18.3	15.1	12.7	6.89
TR9-12240	168	129	111	92.22	67.6	48.6	36.9	31.2	27.1	24.3	20.2	17.0	8.79
TR9-12300	184	137	128	119	84.5	60.7	46.1	39.0	33.8	30.4	25.2	21.2	11.0
TR9-12360	221	168	166	128	101	72.9	50.3	46.8	40.6	36.3	30.2	25.9	13.2
TR9-6180	126	111	101	83.9	60.8	43.6	33.6	27.8	24.7	22.6	18.6	15.1	7.80
TR9-6200	140	125	112	93.3	67.9	48.9	37.3	31.0	27.4	25.0	20.7	16.8	8.70
TR9-6210	167	129	118	97.9	70.9	50.9	39.2	32.8	28.8	26.2	21.7	17.6	9.13
TR9-6230	161	142	129	107	77.6	55.8	42.9	36.6	31.8	28.7	23.8	19.3	10.0
TR9-6240	168	148	134	112	81.0	58.2	44.8	37.2	32.9	30.0	24.8	20.1	10.6
TR9-6260	175	154	140	117	84.4	60.6	46.6	38.7	34.3	31.2	25.9	21.0	10.9
TR9-6280	196	172	167	131	94.9	67.9	52.2	43.3	38.4	35.0	29.0	23.8	12.2

EverExceed Economical OPzS Tubular Eco Range Discharge Data Amperes at 20°C to 1.85-1.80 VPC

DIN Type	Discharge Data Amps @ 20° C to 1.85VPC												
	Discharge Time in Minutes				Discharge Time in Hours								
	5	10	15	30	1	2	3	4	5	6	8	10	20
TR9-1226	22.3	18.9	17.7	16.0	10.9	7.34	5.69	4.94	3.99	3.80	3.01	2.67	1.28
TR9-1236	27.9	24.9	23.2	17.9	13.1	9.78	8.92	8.97	6.97	4.96	3.76	3.09	1.62
TR9-1266	43.8	38.1	34.8	27.9	20.9	14.4	10.7	8.91	7.81	7.78	6.91	4.86	2.62
TR9-1276	59.8	53.3	47.9	37.6	28.0	19.7	14.8	12.2	10.7	9.77	8.06	6.92	3.63
TR9-12180	79.7	71.0	63.3	50.1	37.3	26.2	19.9	16.2	14.2	13.0	10.7	8.83	4.88
TR9-12120	86.6	89.2	79.9	65.1	44.8	31.9	23.4	19.9	17.0	15.6	12.9	10.6	5.69
TR9-12180	100	100	90.0	73.7	55.1	38.7	29.0	20.0	17.1	16.1	13.8	11.1	6.78
TR9-12240	160	138	127	99.6	73.9	51.6	38.7	30.3	26.3	23.0	21.0	17.9	9.94
TR9-12360	200	172	166	126	91.9	66.6	48.4	41.7	36.6	31.8	28.3	21.8	11.3
TR9-12360	260	207	190	149	110	77.6	58.1	50.0	42.4	38.2	31.8	26.2	13.6
TR9-6180	136	122	113	82	66.1	46.6	36.4	29.4	26.9	23.8	19.6	16.7	8.13
TR9-6230	161	139	126	103	73.4	51.8	39.4	32.6	28.7	26.2	21.7	17.4	9.93
TR9-6270	169	142	132	108	77.1	56.3	41.3	36.3	30.2	27.9	22.8	18.3	9.69
TR9-6230	174	156	149	116	84.4	59.6	45.3	37.9	33.0	30.1	25.0	20.1	10.4
TR9-6260	181	162	151	123	88.1	62.1	47.2	38.2	34.8	31.6	26.1	20.9	10.8
TR9-6260	189	169	157	128	91.7	64.7	49.2	40.8	36.9	32.8	27.2	21.8	11.3
TR9-6280	212	189	176	144	103	72.6	55.1	46.7	40.2	36.7	30.4	24.4	12.6

DIN Type	Discharge Data Amps @ 20° C to 1.82VPC												
	Discharge Time in Minutes				Discharge Time in Hours								
	5	10	15	30	1	2	3	4	5	6	8	10	20
TR9-1226	24.3	21.7	19.6	16.3	11.2	7.80	5.81	4.74	4.11	3.70	3.09	2.82	1.31
TR9-1236	30.3	27.1	24.8	19.1	14.0	9.76	7.27	5.93	5.13	4.80	3.86	3.16	1.63
TR9-1266	47.8	42.8	38.8	30.1	22.0	15.3	11.4	9.32	8.06	7.20	6.08	4.96	2.67
TR9-1276	64.9	58.1	53.6	41.0	30.1	20.9	15.6	12.7	11.0	9.97	8.26	6.76	3.60
TR9-12180	86.6	77.4	70.1	56.6	40.1	27.9	20.8	16.9	14.7	13.3	11.0	9.32	4.87
TR9-12120	104	92.9	84.1	68.6	48.1	33.4	24.9	20.3	17.8	16.0	13.2	10.8	5.60
TR9-12180	129	113	106	80.2	59.6	42.9	30.8	26.1	22.2	19.9	16.8	13.4	6.93
TR9-12360	172	150	141	107	79.4	54.6	41.1	34.8	29.6	26.6	22.0	17.9	9.27
TR9-12360	219	188	177	136	96.3	68.2	51.3	43.9	37.0	33.2	27.8	22.4	11.6
TR9-12300	268	229	212	160	119	81.9	61.6	52.2	44.9	39.8	33.0	26.9	13.9
TR9-6180	167	132	126	101	71.3	49.6	37.4	30.8	27.1	24.0	20.1	16.4	8.67
TR9-6230	193	147	140	112	79.3	55.1	41.9	34.2	30.1	27.2	22.4	18.2	9.61
TR9-6270	171	159	147	118	83.2	57.9	43.8	36.9	31.8	28.6	23.8	19.1	9.88
TR9-6230	188	169	161	129	91.2	63.4	47.7	39.4	34.8	31.2	26.7	20.9	10.9
TR9-6260	196	177	168	134	95.1	65.1	49.8	41.1	36.1	32.7	26.9	21.8	11.3
TR9-6260	204	184	175	140	99.1	68.9	51.9	42.8	37.7	34.0	28.0	22.7	11.8
TR9-6280	228	208	196	157	111	77.2	58.1	47.9	42.2	38.1	31.3	25.4	13.2

DIN Type	Discharge Data Amps @ 20° C to 1.80VPC												
	Discharge Time in Minutes				Discharge Time in Hours								
	5	10	15	30	1	2	3	4	5	6	8	10	20
TR9-1226	26.0	24.0	21.7	16.8	12.9	8.24	6.16	5.00	4.28	3.80	3.16	2.88	1.32
TR9-1236	33.1	30.6	27.1	21.0	15.6	10.3	7.68	6.28	5.45	4.91	3.96	3.19	1.69
TR9-1266	50.1	48.1	42.8	33.1	24.9	18.2	12.1	9.92	8.66	7.70	6.21	5.01	2.69
TR9-1276	75.1	69.6	65.1	49.1	33.9	22.1	16.9	13.4	11.7	10.5	8.47	6.93	3.66
TR9-12180	100	87.4	77.4	60.1	44.8	29.4	21.9	17.8	15.6	14.0	11.3	9.11	4.72
TR9-12120	120	106	92.9	72.1	53.9	35.3	26.3	21.4	18.7	16.8	13.9	10.9	5.66
TR9-12180	148	126	111	87.6	64.9	43.4	32.2	27.9	23.7	20.9	17.1	13.8	7.17
TR9-12300	197	166	148	117	86.6	57.9	44.3	36.6	31.8	27.9	22.7	18.4	9.69
TR9-12360	246	207	186	148	108	72.4	50.3	40.8	36.9	32.9	26.4	21.1	11.9
TR9-12360	296	249	221	179	130	86.9	64.4	50.0	47.4	41.9	34.1	27.7	14.3
TR9-6180	172	149	136	109	77.2	51.9	39.9	32.3	29.3	25.8	20.9	16.8	8.70
TR9-6230	191	166	149	121	85.8	57.2	44.3	36.9	32.9	28.6	23.2	18.7	9.66
TR9-6270	201	176	167	127	90.1	60.0	46.9	37.7	34.2	29.8	24.4	19.6	10.1
TR9-6230	220	191	172	139	96.7	63.7	50.9	41.3	37.4	32.8	26.7	21.8	11.1
TR9-6260	239	199	179	149	103	68.6	52.2	40.1	36.1	34.0	27.9	22.4	11.6
TR9-6260	239	208	187	142	107	71.9	56.4	44.9	40.7	35.4	29.0	23.2	12.1
TR9-6280	268	232	209	170	120	82.0	62.0	50.3	45.8	39.7	32.9	26.1	13.9

EverExceed Economical OPzS Tubular Eco Range Discharge Data Amperes at 20°C to 1.75-1.67 VPC

DIN Type	Discharge Data Amps @ 20° C to 1.75VPC												
	Discharge Time in Minutes				Discharge Time in Hours								
	5	10	15	30	1	2	3	4	5	6	8	10	20
TR9-1226	31.9	27.9	24.2	18.1	13.1	8.07	6.00	5.30	4.66	4.10	3.31	2.70	1.60
TR9-1236	39.8	34.7	30.3	22.6	16.4	10.8	8.26	7.45	6.65	5.96	4.16	3.38	1.78
TR9-1246	82.8	84.6	67.8	38.6	26.7	17.0	13.0	10.4	9.12	8.10	6.81	6.31	2.78
TR9-1276	85.4	74.4	64.9	48.9	35.0	23.2	17.7	14.2	12.6	11.1	8.88	7.24	3.78
TR9-121.80	114	99.3	86.9	66.7	46.7	31.0	23.8	19.9	16.8	14.8	11.8	9.60	6.00
TR9-121.30	137	119	104	77.6	56.1	37.2	28.3	22.7	19.9	17.7	14.2	11.6	6.90
TR9-121.80	171	143	126	96.1	67.7	46.1	34.8	28.8	24.9	22.1	17.9	14.8	7.90
TR9-123.00	227	191	167	129	90.3	61.8	46.1	36.4	33.2	29.9	23.9	19.2	10.0
TR9-123.60	264	238	209	167	113	78.9	57.6	46.0	41.9	36.9	29.8	24.1	12.6
TR9-123.60	361	286	261	188	136	92.2	69.2	57.9	49.8	44.3	35.8	29.0	16.0
TR9-6180	187	173	166	118	82.2	56.4	42.0	36.0	30.0	26.2	21.6	17.4	9.00
TR9-6230	219	192	173	121	81.3	61.6	46.6	37.8	33.6	29.1	24.0	19.2	10.0
TR9-6270	250	202	181	137	95.9	64.6	49.0	39.7	36.1	30.6	25.2	20.3	10.6
TR9-6230	262	221	196	150	106	73.6	53.6	43.4	38.6	33.6	27.6	22.2	11.6
TR9-6260	263	231	207	167	110	73.8	56.0	46.3	40.1	34.9	28.8	23.2	12.0
TR9-6260	274	240	216	163	114	76.6	58.3	47.2	41.7	36.4	30.0	24.1	12.6
TR9-6280	337	269	242	183	128	86.2	66.3	52.9	46.7	42.7	33.6	27.0	14.0

DIN Type	Discharge Data Amps @ 20° C to 1.70VPC												
	Discharge Time in Minutes				Discharge Time in Hours								
	5	10	15	30	1	2	3	4	5	6	8	10	20
TR9-1226	39.8	33.1	28.3	20.7	14.0	8.90	6.83	6.01	5.32	4.28	3.42	2.76	1.63
TR9-1236	49.7	41.4	36.4	26.8	17.9	11.3	8.94	8.08	6.92	6.36	4.37	3.64	1.78
TR9-1246	78.1	68.1	58.6	42.6	27.9	17.7	13.6	10.8	9.47	8.40	6.71	6.21	2.80
TR9-1276	107	89.8	79.8	59.3	37.6	24.1	18.3	14.9	12.9	11.9	9.16	7.38	3.82
TR9-121.80	162	118	101	73.8	50.1	32.1	24.6	19.7	17.2	15.2	12.2	9.83	6.09
TR9-121.30	170	142	121	88.9	60.1	38.6	29.3	23.6	20.7	18.6	14.6	11.8	6.11
TR9-121.80	211	172	150	109	76.6	48.9	36.0	29.7	26.3	23.2	18.8	14.9	7.74
TR9-123.00	262	229	200	149	101	64.7	48.0	39.6	36.0	31.0	24.7	19.9	10.3
TR9-123.60	302	266	231	181	126	80.8	59.9	49.9	43.8	38.7	30.8	24.8	12.8
TR9-123.60	422	343	301	218	161	97.0	71.9	56.4	52.6	46.3	37.1	29.9	15.9
TR9-6180	266	207	184	134	93.2	67.6	44.1	36.1	30.3	26.9	21.8	17.6	9.13
TR9-6230	273	230	204	149	104	63.9	49.0	39.0	33.7	29.8	24.2	19.6	10.1
TR9-6270	287	242	214	167	109	67.1	51.4	40.9	36.4	31.3	25.6	20.6	10.7
TR9-6230	314	269	239	172	119	73.6	56.3	44.8	38.7	34.2	27.9	22.9	11.7
TR9-6260	328	276	245	179	124	76.7	58.8	46.8	40.4	35.8	29.1	23.6	12.2
TR9-6260	362	288	266	187	129	79.9	61.2	46.7	42.1	37.2	30.3	24.9	12.7
TR9-6280	383	322	286	209	146	89.4	68.6	54.6	47.1	41.8	33.9	27.4	14.2

DIN Type	Discharge Data Amps @ 20° C to 1.67VPC												
	Discharge Time in Minutes				Discharge Time in Hours								
	5	10	15	30	1	2	3	4	5	6	8	10	20
TR9-1226	40.6	33.8	28.9	21.1	14.3	9.18	6.97	6.02	5.32	4.27	3.48	2.81	1.69
TR9-1236	50.7	42.3	36.1	26.3	17.9	11.6	8.71	7.62	6.74	6.06	4.36	3.61	1.82
TR9-1246	79.7	68.4	58.7	41.4	28.1	18.0	13.7	11.0	9.66	8.66	6.86	6.32	2.86
TR9-1276	109	90.6	77.3	56.4	36.3	24.6	18.7	15.0	13.2	11.7	9.33	7.80	3.90
TR9-121.80	169	121	103	75.2	51.1	32.8	24.9	20.1	17.6	15.6	12.4	10.0	6.20
TR9-121.30	174	149	124	90.3	61.3	39.3	29.9	24.1	21.1	18.7	14.9	12.0	6.24
TR9-121.80	213	173	152	110	76.4	49.0	36.3	30.0	26.9	23.8	18.1	14.1	7.62
TR9-123.00	264	231	202	147	102	65.3	48.4	40.0	36.4	31.3	25.0	20.1	10.4
TR9-123.60	300	269	240	183	127	81.7	60.9	50.0	44.2	38.1	31.2	26.1	13.0
TR9-123.60	427	348	304	220	163	96.0	72.7	60.0	53.1	46.9	37.4	30.2	16.6
TR9-6180	269	209	186	136	94.1	68.1	44.9	36.4	30.6	27.1	22.0	17.8	9.22
TR9-6230	276	233	206	151	106	64.6	49.9	39.4	34.0	30.1	24.0	19.8	10.2
TR9-6270	280	244	217	168	110	67.7	51.9	41.3	36.7	31.8	26.7	20.8	10.8
TR9-6230	317	268	237	173	120	74.2	56.9	46.3	39.1	34.7	28.2	22.7	11.8
TR9-6260	331	279	248	181	126	77.4	59.3	47.2	40.8	36.2	29.4	23.7	12.3
TR9-6260	369	291	266	188	131	80.7	61.8	49.2	42.9	37.7	30.6	24.7	12.8
TR9-6280	386	326	289	211	146	92.3	69.2	56.1	47.6	42.2	34.3	27.4	14.3

EverExceed Economical OPzS Tubular Eco Range Discharge Data Amperes at 20°C to 1.65 VPC

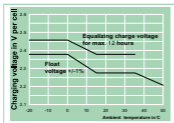
DIN Type	Discharge Data Amps @ 20° C to 1.65VPC												
	Discharge Time in Minutes				Discharge Time in Hours								
	5	10	15	30	1	2	3	4	5	6	8	10	20
TER-1228	41.0	34.1	29.2	21.3	14.4	9.27	7.06	6.07	4.98	4.01	3.02	2.84	1.67
TER-1235	61.2	42.7	36.4	26.6	18.1	11.6	8.80	7.98	6.21	5.02	4.40	3.36	1.84
TER-1236	80.8	67.1	57.3	41.8	28.4	18.2	13.8	11.1	8.78	8.07	6.81	6.07	2.88
TER-1275	150	91.8	78.1	57.0	38.7	24.8	18.8	16.2	13.3	11.8	9.43	7.80	3.84
TER-12100	188	122	104	76.0	51.6	33.1	25.1	20.3	17.7	15.8	12.6	10.1	6.28
TER-12120	176	108	126	91.2	61.8	39.7	30.2	24.3	21.3	18.8	15.1	12.2	8.30
TER-12180	218	178	183	111	77.1	49.8	36.7	30.3	26.8	23.7	18.8	16.2	7.88
TER-12200	287	233	204	148	103	66.0	48.8	40.4	36.7	31.8	25.2	20.2	10.9
TER-12280	369	292	266	189	129	82.8	61.1	50.8	41.7	38.8	31.8	26.4	13.2
TER-12300	421	350	307	232	154	99.0	73.4	60.6	53.6	47.4	37.8	30.8	16.8
TER-6180	261	211	188	137	86.0	58.7	46.0	38.8	30.8	27.6	22.3	18.0	8.31
TER-6230	278	238	208	162	106	69.2	49.8	39.8	34.3	30.4	24.7	20.0	10.2
TER-6270	283	247	219	160	111	68.4	52.4	41.8	36.1	32.0	26.0	21.0	10.8
TER-6230	321	275	240	178	121	76.8	57.4	46.7	39.8	33.0	28.4	23.0	11.8
TER-6260	334	282	250	183	127	78.2	58.8	47.7	41.2	36.8	29.7	24.0	12.4
TER-6230	368	294	260	190	132	81.8	62.4	49.7	42.8	38.1	30.8	26.0	12.8
TER-6280	380	328	292	213	148	91.2	69.8	56.7	48.1	42.8	34.8	28.0	14.8

Long duration discharge Capacity Ah

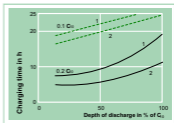
Actual battery performance data may be +/-5% of figures shown below

DIN Type	C ₅	C ₁₀	C ₂₀	C ₃₀	C ₄₀	C ₅₀	C ₆₀
	1.65 VPC – Discharge Data in Ampere Hour at 20°C						
TER-1228	33.0	35.2	37.1	37.4	37.9	38.1	38.2
TER-1235	41.2	44.0	46.3	46.7	47.4	47.6	47.8
TER-1255	64.8	69.1	72.8	73.5	74.5	74.8	75.1
TER-1275	88.3	94.2	99.3	100	102	102	102
TER-12100	118	126	132	134	135	136	137
TER-12120	141	15.1	159	160	162	163	164
TER-12150	177	188	199	200	203	204	205
TER-12200	235	25.1	262	264	265	267	277
TER-12250	282	30.5	320	321	322	324	333
TER-12300	342	36.6	383	385	386	388	392
TER-6180	206	22.0	229	231	232	233	242
TER-6200	228	24.4	255	257	258	259	269
TER-6210	240	25.7	268	270	270	272	283
TER-6230	263	28.1	293	295	296	298	309
TER-6240	274	29.3	306	308	309	311	323
TER-6250	285	30.5	319	321	322	324	336
TER-6280	320	34.2	357	359	361	363	377

Technical Data Curves



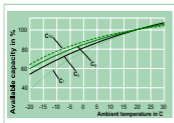
For continuous charging we recommend a voltage of 2.25 V. The charging voltage must be compensated to the curve for a continuously different battery ambient temperature.



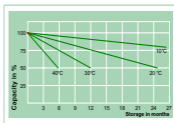
Recharging time in relation to the initial charging current at 20°C.

--- State of charge 100 % — State of charge 90 %

Charge voltage: 1: 2.25 V/C
 2: 2.40 V/C



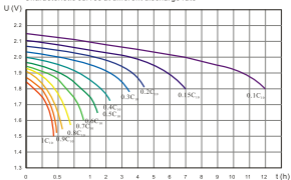
Available capacity in relation to the ambient temperature.



Self-discharge in relation to the storage temperature.

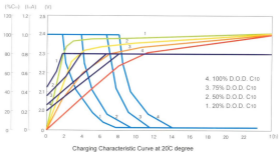
Technical Data Curves

Characteristic curves at different discharge rate



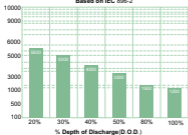
characteristic curves at different discharge rate (20°C)

EverExceed Tubular Eco Range Charging Curves Charging Characteristic Curve



Charging Characteristic Curve at 20°C degree

Cycle Life vs Depth of Discharge
Based on IEC 896-2



1500 cycles to 80% DoD and 5000 to over 30% DoD !

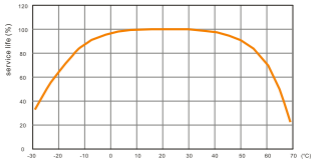
TYPICAL CYCLIC PERFORMANCE

CAPACITY WITHDRAWN	CYCLES
100%	1200
80%	1500
50%	3300
40%	4000
30%	5000
20%	5500

BATTERY CYCLING ABILITY

The EverExceeds Economical OPzS Tubular Eco Range Battery excels in cycling applications. EverExceeds Economical OPzS Tubular Eco Range batteries are capable of 5500 charge / discharge cycles depending on the depth of discharge.

Relation curves of service life and ambient temperature



Relation curves of service life and ambient temperature



[HTTP://WWW.EVEREXCEED.COM](http://www.everexceed.com)

EverExceed[®]
power your applications