

## ▶ AGM Long Life TL Batteries



**Solutions for the toughest requirements**

## ► The Company



Triathlon System GmbH is your specialist for battery-operated electrical systems with branches across Germany. Our comprehensive and competent consulting is based on our specialist know-how and many years of experience in battery and charger technology.

Decades of experience and technical expertise, combined with state-of-the-art production facilities ensure the highest quality of batteries available.

Our product range includes batteries of all current technologies, as well as emergency lighting systems, UPS systems, DC power systems and systems for many other applications.

Our installation and service teams ensure the installation and proper functioning of our products.

The range of services is supported by reputable and reliable partners only.

# Endurance. Commitment.

## ▶ AGM TL

The Triathlon TL range with AGM technology stands for the highest demands.

Areas of application include uninterruptible power supplies (UPS), telecommunications, information technology and security lighting.

The highest quality standards are met through:

- ✓ Certification in line with ISO 9001 and ISO 14001
- ✓ IEC 60896 Parts 21 & 22 and BS 6290 Part 4
- ✓ Extensive end testing of products prior to dispatch

### BATTERY CHARACTERISTICS

- ▶ Sealed VLRA (valve-regulated lead acid) batteries – electrolyte is fixed in a glass mat
- ▶ Outstanding high-current capability thanks to low internal resistance
- ▶ High power density, low size ratio
- ▶ Maintenance-free
- ▶ Safety valve protects against excessive high pressure
- ▶ Low self-discharge rate:  
Can be stored for up to 9 months under normal conditions at +20 °C
- ▶ Service life of 12 years or more in continuous battery power supply mode according to EUROBAT
- ▶ No transport restrictions  
(in line with IATA, DGR, sentence A67)

#### ▶ Applications:

- Uninterruptible power supplies (UPS)
- Emergency lighting
- Stationary back-up power systems in power stations and remote stations
- Telecommunications and electrical equipment
- Switchgear
- Automation technology, robotic systems
- Wireless and radio systems
- Distance measurement systems
- Signalling systems



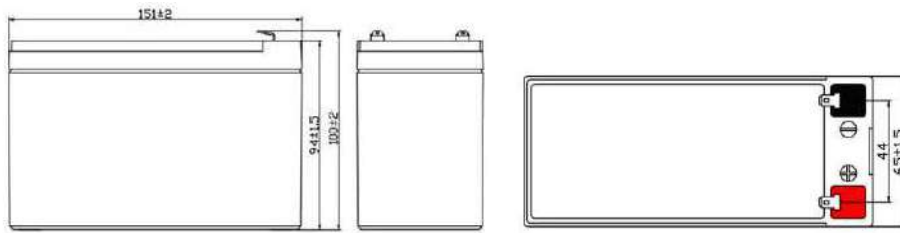
# Maximum Performance

## ▶ AGM TL: Technical Data

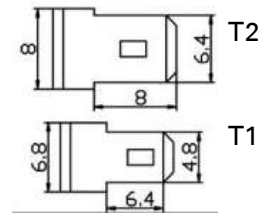
12+ YEARS, LONG LIFE										
Battery type	Nominal voltage	Nominal capacity C <sub>10</sub>	Nominal capacity C <sub>20</sub>	Length (L)	Width (W)	Height (H)	Typical weight	Internal resistance	max. discharge current	Connection
	V	Ah	Ah	max. mm	max. mm	max. mm	kg	mOhm	A	
TL 12 - 7,5	12	7,2	7,7	151	65	100	2,3	24	112,5	T2 (6.3mm)
TL 12 - 12	12	11,6	12,3	151	98	101	3,9	14,0	180	T2 (6.3mm)
TL 12 - 18	12	17,4	18,5	181	77	165	5,7	13,0	270	T10 (M5 Female)
TL 12 - 25	12	24,2	25,7	167	176	127	8,0	12,0	375	T10 (M5 Female)
TL 12 - 28	12	26,6	28,2	165	125	175	8,8	12,0	420	T10 (M5 Female)
TL 12 - 35	12	35,7	38,8	195	130	166	10,5	8,5	280	T11 (M6 Female)
TL 12 - 45	12	45,9	49,9	197	166	170	14,1	8,0	360	T11 (M6 Female)
TL 12 - 55	12	56,1	61,0	229	138	214	18,0	8,0	440	T12 (M6 Female)
TL 12 - 65	12	66,3	72,1	350	167	180	21,0	6,5	520	T12 (M6 Female)
TL 12 - 70	12	71,4	77,7	259	168	214	21,5	7,5	560	T12 (M6 Female)
TL 12 - 80 L	12	81,6	88,8	350	167	180	23,0	6,5	640	T12 (M6 Female)
TL 12 - 80 S	12	81,6	88,8	259	168	214	23,5	6,5	640	T12 (M6 Female)
TL 12 - 90	12	91,8	99,9	307	168	214	26,0	6,0	720	T12 (M6 Female)
TL 12 - 100	12	102,0	111,0	328	172	220	30,0	5,0	800	T12 (M6/M8 Female)
TL 12 - 120	12	122,4	133,2	407	177	225	34,5	4,0	960	T13 (M6/M8 Female)
TL 12 - 135	12	137,7	149,8	340	172	286	40,0	4,0	1080	T13 (M6/M8 Female)
TL 12 - 150	12	153	166,5	485	169	240	43,5	4,0	1200	T13 (M6/M8 Female)
TL 12 - 200	12	204,0	222,0	522	238	221	60,5	3,5	1600	T13 (M6/M8 Female)
TL 12 - 260	12	265,2	288,6	520	268	223	72,5	3,0	2080	T13 (M6/M8 Female)

# ► AGM TL: Technical Drawings

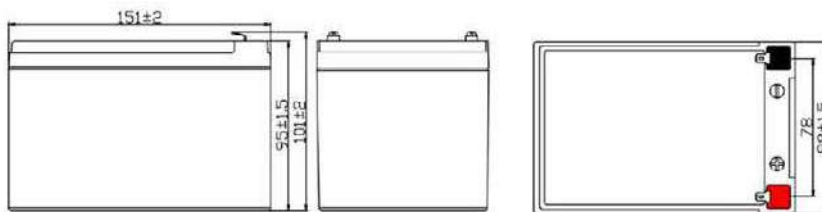
TL 12-7,5



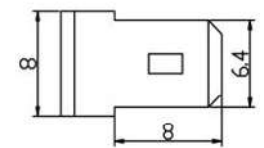
Connection /T1/T2



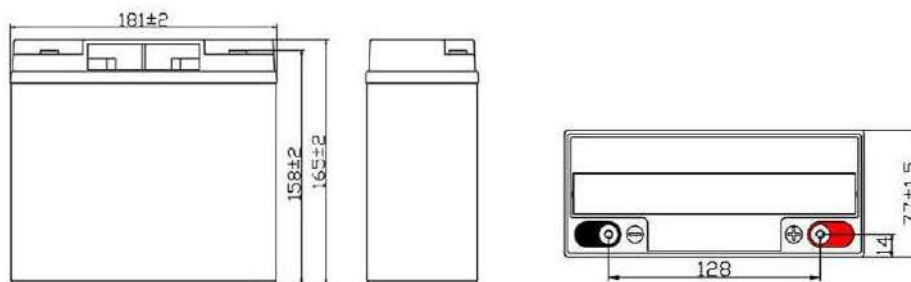
TL 12-12



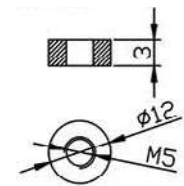
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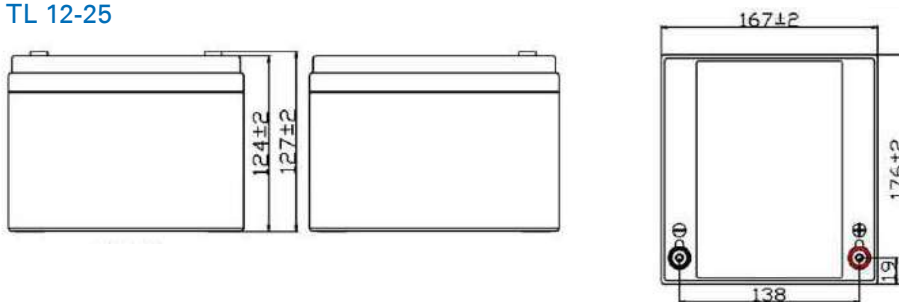
TL 12-18



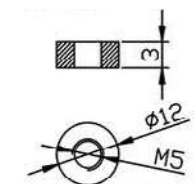
Connection T10



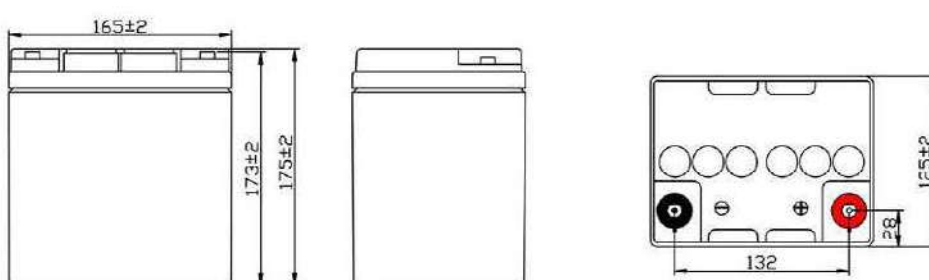
TL 12-25



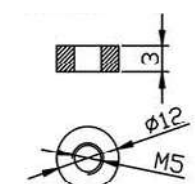
Connection T10



TL 12-28

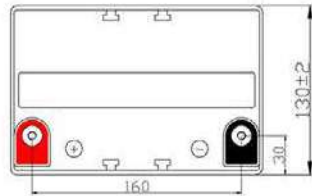
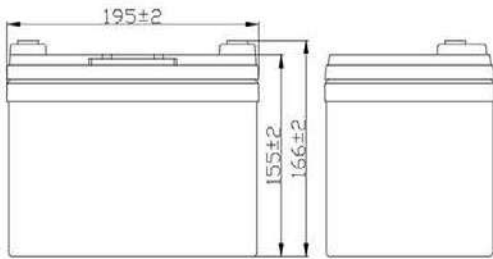


Connection T10

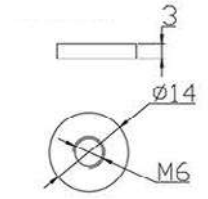


# ▶ AGM TL: Technical Drawings

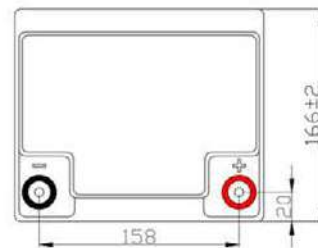
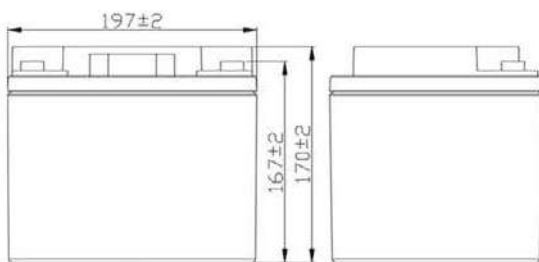
TL 12-35



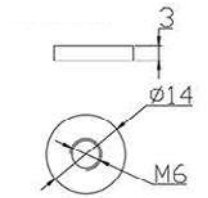
Connection T11



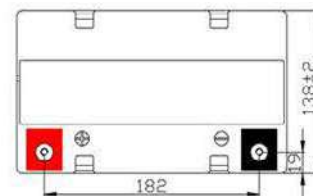
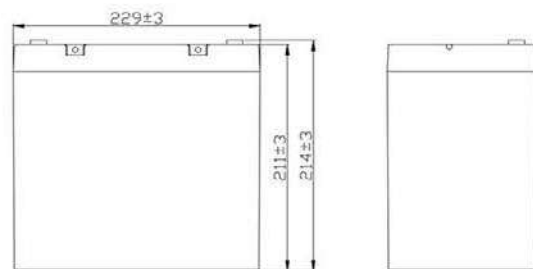
TL 12-45



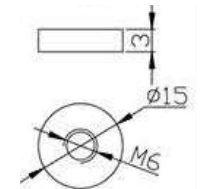
Connection T11



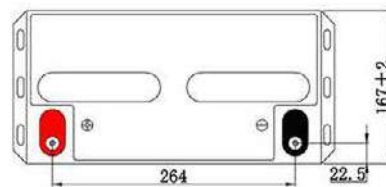
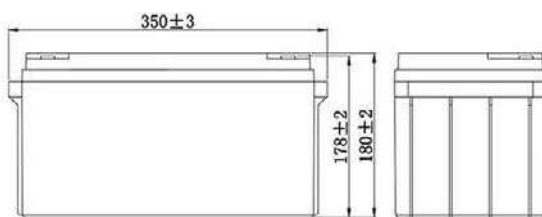
TL 12-55



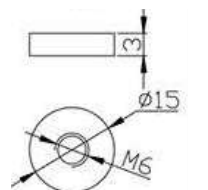
Connection T12



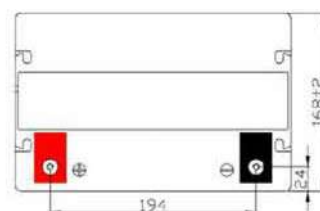
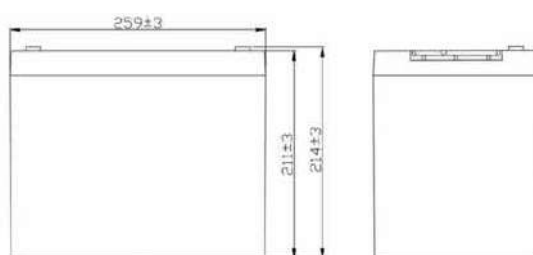
TL 12-65



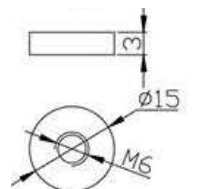
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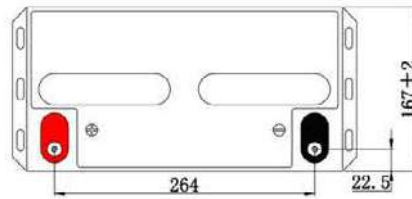
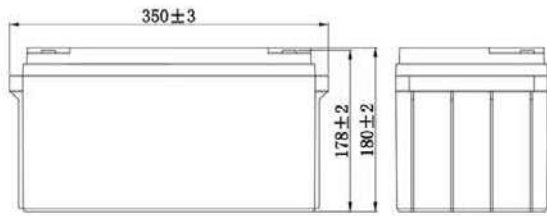
TL 12-70



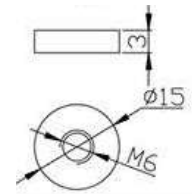
Connection T12



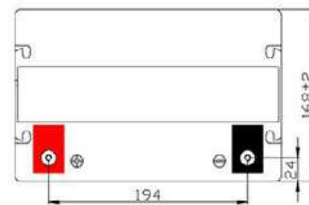
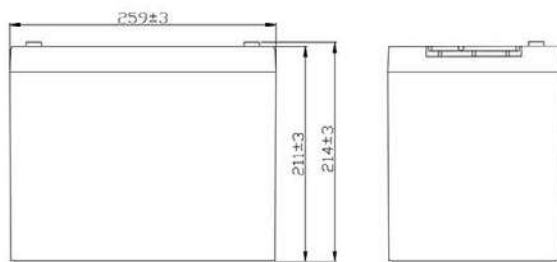
TL 12-80 L



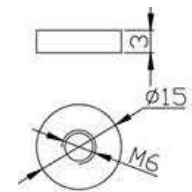
Connection T12



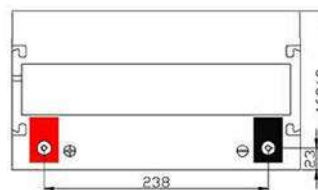
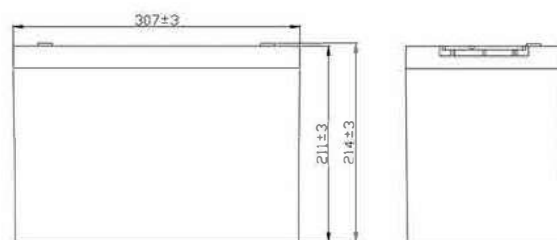
TL 12-80 S



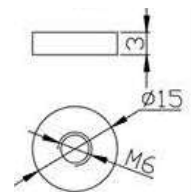
Connection T12



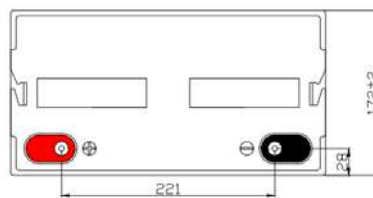
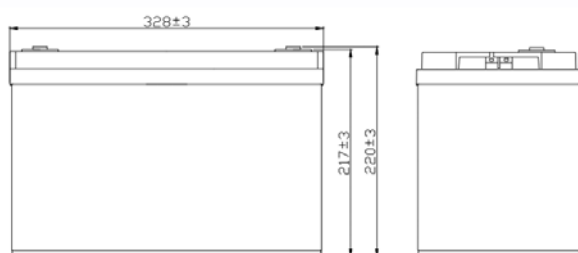
TL 12-90



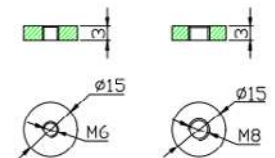
Connection T12



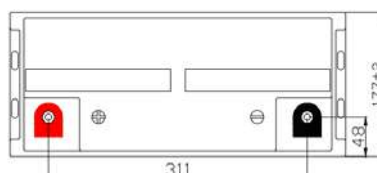
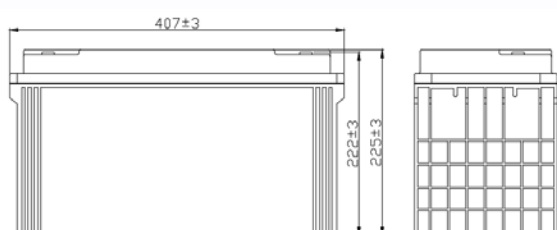
TL 12-100



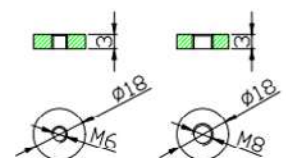
Connection T12



TL 12-120

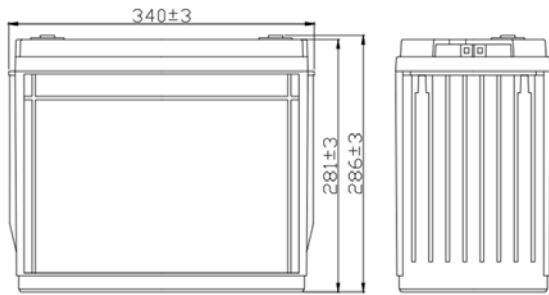


Connection T13

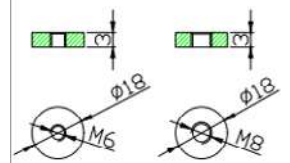


# ▶ AGM TL: Technical Drawings

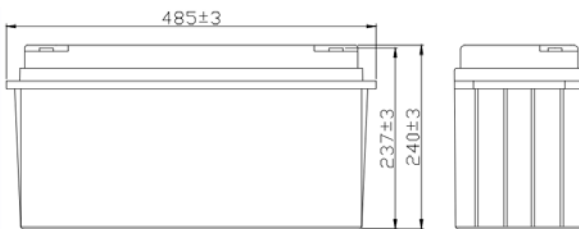
TL 12-135



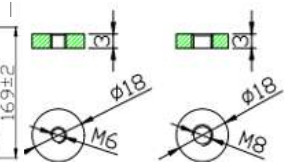
Connection T13



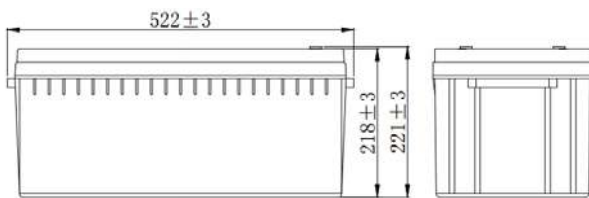
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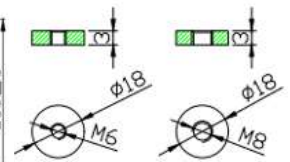
Connection T13



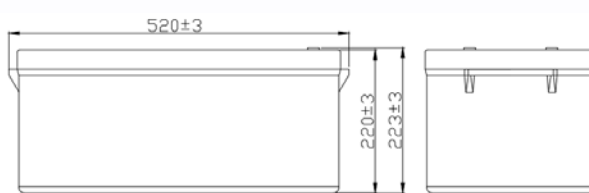
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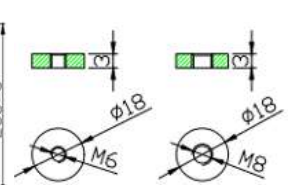
Connection T13



TL 12-260



Connection T13

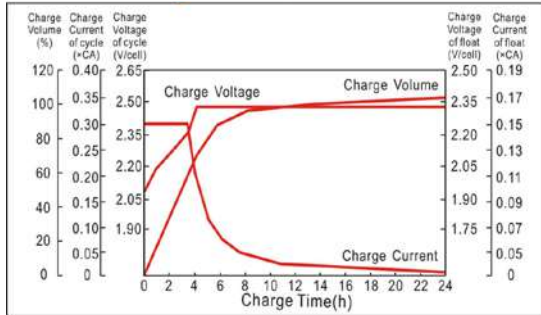




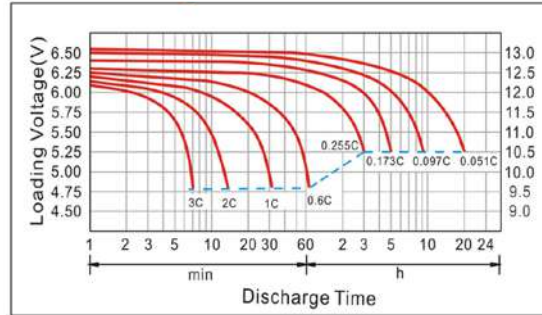
# ▶ AGM TL: Curves

7,5 - 28 Ah

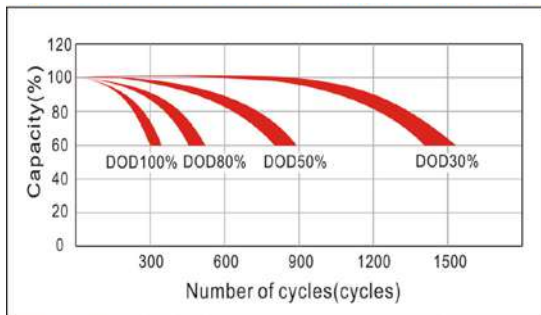
Charge Characteristics curve



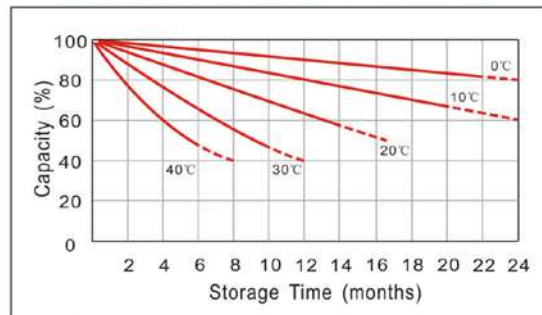
Discharge characteristics curve



Cycle Service life in relation to depth of discharge

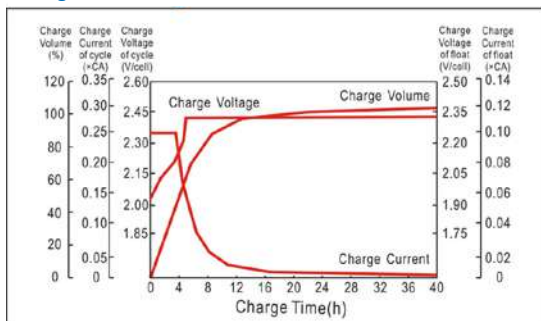


capacity storage characteristics

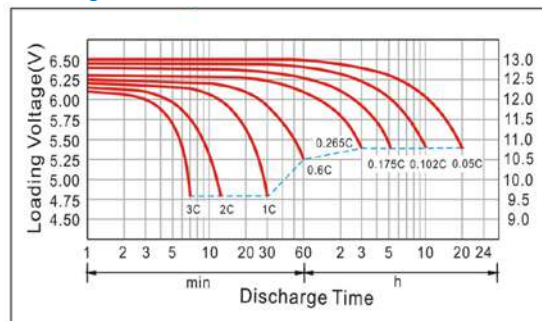


35 - 260 Ah

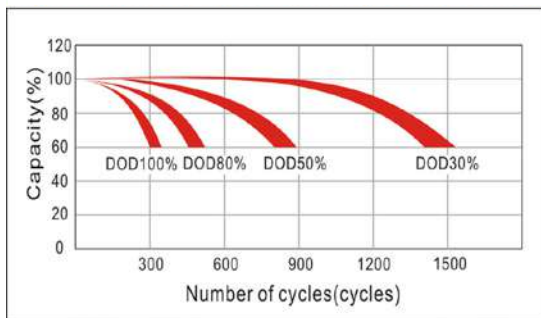
Charge Characteristics curve



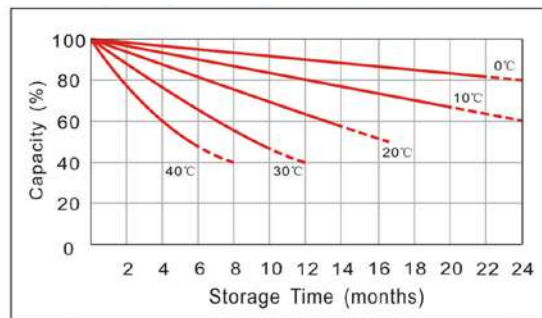
Discharge characteristics curve



Cycle Service life in relation to depth of discharge



capacity storage characteristics



## ▶ AGM TL: Discharge data in Amperes

1,80 V/Z - discharge in amperes at 25 °C											
Battery type	5 min	10 min	15 min	30 min	60 min	2 h	3 h	5 h	8 h	10 h	20 h
TL 12 - 7,5	21,64	15,75	12,11	7,01	4,64	2,66	1,91	1,30	0,86	0,73	0,37
TL 12 - 12	34,62	25,20	19,38	11,22	7,42	4,25	3,05	2,09	1,38	1,16	0,59
TL 12 - 18	51,93	37,80	29,07	16,83	11,13	6,38	4,58	3,13	2,07	1,74	0,89
TL 12 - 25	72,13	52,50	40,38	23,38	15,46	8,86	6,36	4,35	2,87	2,42	1,24
TL 12 - 28	80,78	58,80	45,22	26,18	17,32	9,93	6,99	4,77	3,15	2,66	1,36
TL 12 - 35	85,75	61,43	54,08	35,84	21,70	13,07	9,28	6,13	4,17	3,57	1,91
TL 12 - 45	110,30	78,98	69,53	46,08	27,90	16,80	11,93	7,88	5,36	4,59	2,45
TL 12 - 55	134,80	96,53	84,98	56,32	34,10	20,53	14,58	9,63	6,56	5,61	3,00
TL 12 - 65	159,30	114,10	100,40	66,56	40,30	24,26	17,23	11,38	7,75	6,63	3,54
TL 12 - 70	171,50	122,90	108,20	71,68	43,40	26,13	18,55	12,25	8,34	7,14	3,82
TL 12 - 80 L	196,00	140,40	123,60	81,92	49,60	29,86	21,20	14,00	9,54	8,16	4,36
TL 12 - 80 S	196,00	140,40	123,60	81,92	49,60	29,86	21,20	14,00	9,54	8,16	4,36
TL 12 - 90	220,50	158,00	139,10	92,16	55,80	33,60	23,85	15,75	10,73	9,18	4,91
TL 12 - 100	245,00	175,50	154,50	102,40	62,00	37,33	26,50	17,50	11,92	10,20	5,45
TL 12 - 120	294,00	210,60	185,40	122,90	74,40	44,80	31,80	21,00	14,30	12,24	6,54
TL 12 - 135	330,80	236,90	208,60	138,20	83,70	50,40	35,78	23,63	16,09	13,77	7,36
TL 12 - 150	367,50	263,30	231,80	153,60	93,00	56,00	39,75	26,25	17,88	15,30	8,18
TL 12 - 200	490,00	351,00	309,00	204,80	124,00	74,66	53,00	35,00	23,84	20,40	10,90
TL 12 - 260	637,00	456,30	401,70	266,20	161,20	97,06	68,90	45,50	30,99	26,52	14,17

1,75 V/Z - discharge in amperes at 25 °C											
Battery type	5 min	10 min	15 min	30 min	60 min	2 h	3 h	5 h	8 h	10 h	20 h
TL 12 - 7,5	24,11	16,84	12,86	7,24	4,71	2,68	1,93	1,32	0,87	0,74	0,39
TL 12 - 12	38,58	26,94	20,58	11,58	7,53	4,29	3,09	2,11	1,40	1,18	0,62
TL 12 - 18	57,87	40,41	30,87	17,37	11,30	6,44	4,64	3,17	2,09	1,77	0,93
TL 12 - 25	80,38	56,13	42,88	24,13	15,69	8,94	6,44	4,40	2,91	2,46	1,29
TL 12 - 28	90,02	62,86	48,02	27,02	17,57	10,01	7,07	4,83	3,19	2,70	1,41
TL 12 - 35	96,25	67,38	57,58	37,28	22,16	13,25	9,38	6,22	4,24	3,62	1,94
TL 12 - 45	123,80	86,63	74,03	47,93	28,49	17,03	12,06	8,00	5,45	4,66	2,50
TL 12 - 55	151,30	105,90	90,48	58,58	34,82	20,82	14,74	9,77	6,66	5,69	3,05
TL 12 - 65	178,80	125,10	106,90	69,23	41,15	24,60	17,42	11,55	7,87	6,73	3,61
TL 12 - 70	192,50	134,80	115,20	74,55	44,31	26,50	18,76	12,44	8,47	7,25	3,89
TL 12 - 80 L	220,00	154,00	131,60	85,20	50,64	30,28	21,44	14,22	9,68	8,28	4,44
TL 12 - 80 S	220,00	154,00	131,60	85,20	50,64	30,28	21,44	14,22	9,68	8,28	4,44
TL 12 - 90	247,50	173,30	148,10	95,85	56,97	34,07	24,12	15,99	10,89	9,32	5,00
TL 12 - 100	275,00	192,50	164,50	106,50	63,30	37,85	26,80	17,77	12,10	10,35	5,55
TL 12 - 120	330,00	231,00	197,40	127,80	75,96	45,42	32,16	21,32	14,52	12,42	6,66
TL 12 - 135	371,30	259,90	222,10	143,80	85,46	51,10	36,18	23,99	16,34	13,97	7,49
TL 12 - 150	412,50	288,80	246,80	159,80	94,95	56,78	40,20	26,66	18,15	15,53	8,33
TL 12 - 200	550,00	385,00	329,00	213,00	126,60	75,70	53,60	35,54	24,20	20,70	11,10
TL 12 - 260	715,00	500,50	427,70	276,90	164,60	98,41	69,68	46,20	31,46	26,91	14,43

### 1,70 V/Z - discharge in amperes at 25 °C

Battery type	5 min	10 min	15 min	30 min	60 min	2 h	3 h	5 h	8 h	10 h	20 h
TL 12 - 7,5	26,85	17,96	13,61	7,46	4,77	2,70	1,95	1,33	0,88	0,75	0,40
TL 12 - 12	42,96	28,74	21,78	11,94	7,63	4,33	3,12	2,13	1,41	1,19	0,63
TL 12 - 18	64,44	43,11	32,67	17,91	11,44	6,49	4,68	3,19	2,11	1,79	0,95
TL 12 - 25	89,50	59,88	45,38	24,88	15,89	9,01	6,50	4,43	2,93	2,49	1,32
TL 12 - 28	100,20	67,06	50,82	27,86	17,79	10,09	7,14	4,87	3,22	2,73	1,45
TL 12 - 35	106,80	72,98	60,38	38,33	22,44	13,24	9,49	6,31	4,28	3,66	1,98
TL 12 - 45	137,30	93,83	77,63	49,28	28,85	17,26	12,20	8,12	5,50	4,70	2,54
TL 12 - 55	167,80	114,70	94,88	60,23	35,26	21,09	14,91	9,92	6,72	5,75	3,11
TL 12 - 65	198,30	135,50	112,10	71,18	41,67	24,93	17,62	11,73	7,94	6,79	3,67
TL 12 - 70	213,50	146,00	120,80	76,65	44,87	26,85	18,97	12,63	8,55	7,32	3,96
TL 12 - 80 L	244,00	166,80	138,00	87,60	51,28	30,68	21,68	14,43	9,78	8,36	4,52
TL 12 - 80 S	244,00	166,80	138,00	87,60	51,28	30,68	21,68	14,43	9,78	8,36	4,52
TL 12 - 90	274,50	187,70	155,30	98,55	57,69	34,52	24,39	16,24	11,00	9,41	5,09
TL 12 - 100	305,00	208,50	172,50	109,50	64,10	38,35	27,10	18,04	12,22	10,45	5,65
TL 12 - 120	366,00	250,20	207,00	131,40	76,92	46,02	32,52	21,65	14,66	12,54	6,78
TL 12 - 135	411,80	281,50	232,90	147,80	86,54	51,77	36,59	24,35	16,50	14,11	7,63
TL 12 - 150	457,50	312,80	258,80	164,30	96,15	57,53	40,65	27,06	18,33	15,68	8,48
TL 12 - 200	610,00	417,00	345,00	219,00	128,20	76,70	54,20	36,08	24,44	20,90	11,30
TL 12 - 260	793,00	542,10	448,50	284,70	166,70	99,71	70,46	46,90	31,77	27,17	14,69

### 1,60 V/Z - discharge in amperes at 25 °C

Battery type	5 min	10 min	15 min	30 min	60 min	2 h	3 h	5 h	8 h	10 h	20 h
TL 12 - 7,5	29,59	19,39	14,44	7,69	4,88	2,75	2,00	1,35	0,89	0,77	0,41
TL 12 - 12	47,34	31,02	23,10	12,30	7,80	4,39	3,20	2,16	1,43	1,22	0,66
TL 12 - 18	71,01	46,53	34,65	18,45	11,70	6,59	4,80	3,24	2,14	1,84	0,98
TL 12 - 25	98,63	64,63	48,13	25,63	16,25	9,16	6,67	4,50	2,98	2,55	1,37
TL 12 - 28	110,50	72,38	53,90	28,70	18,20	10,25	7,32	4,94	3,27	2,80	1,50
TL 12 - 35	119,00	79,28	63,49	39,38	22,75	13,60	9,66	6,47	4,35	3,71	2,03
TL 12 - 45	153,00	101,90	81,63	50,63	29,25	17,48	12,42	8,32	5,59	4,77	2,61
TL 12 - 55	187,00	124,60	99,77	61,88	35,75	21,37	15,18	10,16	6,83	5,83	3,19
TL 12 - 65	221,00	147,20	117,90	73,13	42,25	25,25	17,94	12,01	8,07	6,89	3,77
TL 12 - 70	238,00	158,60	127,00	78,75	45,50	27,20	19,32	12,94	8,69	7,42	4,06
TL 12 - 80 L	272,00	181,20	145,10	90,00	52,00	31,08	22,08	14,78	9,94	8,48	4,64
TL 12 - 80 S	272,00	181,20	145,10	90,00	52,00	31,08	22,08	14,78	9,94	8,48	4,64
TL 12 - 90	306,00	203,90	163,30	101,30	58,50	34,97	24,84	16,63	11,18	9,54	5,22
TL 12 - 100	340,00	226,50	181,40	112,50	65,00	38,85	27,60	18,48	12,42	10,60	5,80
TL 12 - 120	408,00	271,80	217,70	135,00	78,00	46,62	33,12	22,18	14,90	12,72	6,96
TL 12 - 135	459,00	305,80	244,90	151,90	87,75	52,45	37,26	24,95	16,77	14,31	7,83
TL 12 - 150	510,00	339,80	272,10	168,80	97,50	58,28	41,40	27,72	18,63	15,90	8,70
TL 12 - 200	680,00	453,00	362,80	225,00	130,00	77,70	55,20	36,96	24,84	21,20	11,60
TL 12 - 260	884,00	588,90	471,60	292,50	169,00	101,00	71,76	48,05	32,29	27,56	15,08

## ▶ AGM TL: Discharge data in Watts / cell

1,80 V/Z - discharge in watts per cell at 25 °C											
Battery type	5 min	10 min	15 min	30 min	60 min	2 h	3 h	5 h	8 h	10 h	20 h
TL 12 - 7,5	40,75	30,06	23,11	13,73	9,25	5,30	3,82	2,61	1,72	1,46	0,74
TL 12 - 12	65,20	48,09	36,98	21,97	14,81	8,49	6,11	4,17	2,75	2,33	1,19
TL 12 - 18	97,80	72,14	55,48	32,96	22,21	12,73	9,16	6,26	4,13	3,49	1,79
TL 12 - 25	135,80	100,20	77,05	45,78	30,85	17,68	12,73	8,70	5,74	4,85	2,48
TL 12 - 28	152,10	112,20	86,29	51,27	34,55	19,80	13,97	9,55	6,30	5,32	2,73
TL 12 - 35	155,80	114,70	101,40	68,69	42,13	25,91	18,53	12,25	8,34	7,14	3,82
TL 12 - 45	200,30	147,40	130,40	88,32	54,17	33,32	23,83	15,75	10,73	9,18	4,91
TL 12 - 55	244,80	180,20	159,30	107,90	66,21	40,72	29,13	19,25	13,11	11,22	6,00
TL 12 - 65	289,30	212,90	188,30	127,60	78,25	48,12	34,42	22,75	15,50	13,26	7,09
TL 12 - 70	311,60	229,30	202,80	137,40	84,27	51,83	37,07	24,50	16,69	14,28	7,63
TL 12 - 80 L	356,10	262,10	231,80	157,00	96,31	59,23	42,36	28,00	19,07	16,32	8,72
TL 12 - 80 S	356,10	262,10	231,80	157,00	96,31	59,23	42,36	28,00	19,07	16,32	8,72
TL 12 - 90	400,60	294,80	260,70	176,60	108,30	66,63	47,66	31,50	21,46	18,36	9,81
TL 12 - 100	445,10	327,60	289,70	196,30	120,40	74,04	52,96	35,00	23,84	20,40	10,90
TL 12 - 120	534,10	393,10	347,60	235,50	144,50	88,85	63,55	42,00	28,61	24,48	13,08
TL 12 - 135	600,90	442,30	391,10	265,00	162,50	100,00	71,49	47,25	32,18	27,54	14,72
TL 12 - 150	667,60	491,40	434,50	294,40	180,60	111,10	79,43	52,50	35,76	30,60	16,35
TL 12 - 200	890,20	655,20	579,40	392,50	240,80	148,10	105,90	70,00	47,68	40,80	21,80
TL 12 - 260	1157,20	851,80	753,20	510,30	313,00	192,50	137,70	91,00	61,98	53,04	28,34

1,75 V/Z - discharge in watts per cell at 25 °C											
Battery type	5 min	10 min	15 min	30 min	60 min	2 h	3 h	5 h	8 h	10 h	20 h
TL 12 - 7,5	45,01	31,85	24,33	14,05	9,38	5,35	3,86	2,64	1,74	1,48	0,78
TL 12 - 12	72,02	50,96	38,93	22,48	15,01	8,55	6,18	4,22	2,79	2,36	1,24
TL 12 - 18	108,00	76,44	58,40	33,73	22,51	12,83	9,26	6,33	4,18	3,55	1,86
TL 12 - 25	150,00	106,20	81,11	46,84	31,27	17,82	12,86	8,79	5,81	4,92	2,59
TL 12 - 28	168,00	118,90	90,84	52,46	35,02	19,95	14,13	9,65	6,38	5,41	2,84
TL 12 - 35	172,40	124,10	107,00	70,82	42,83	26,05	18,70	12,43	8,47	7,25	3,89
TL 12 - 45	221,70	159,50	137,60	91,06	55,07	33,50	24,04	15,98	10,89	9,32	5,00
TL 12 - 55	271,00	195,00	168,10	111,30	67,31	40,94	29,38	19,53	13,31	11,39	6,11
TL 12 - 65	320,30	230,40	198,70	131,50	79,55	48,38	34,72	23,08	15,73	13,46	7,22
TL 12 - 70	344,90	248,20	214,00	141,60	85,67	52,11	37,39	24,86	16,94	14,49	7,77
TL 12 - 80 L	394,20	283,60	244,60	161,90	97,90	59,55	42,74	28,41	19,36	16,56	8,88
TL 12 - 80 S	394,20	283,60	244,60	161,90	97,90	59,55	42,74	28,41	19,36	16,56	8,88
TL 12 - 90	443,40	319,10	275,10	182,10	110,10	66,99	48,08	31,96	21,78	18,63	9,99
TL 12 - 100	492,70	354,50	305,70	202,40	122,40	74,44	53,42	35,51	24,20	20,70	11,10
TL 12 - 120	591,30	425,40	366,80	242,80	146,90	89,33	64,11	42,61	29,04	24,84	13,32
TL 12 - 135	665,20	478,60	412,70	273,20	165,20	100,50	72,12	47,94	32,67	27,95	14,99
TL 12 - 150	739,10	531,80	458,50	303,50	183,60	111,70	80,13	53,27	36,30	31,05	16,65
TL 12 - 200	985,40	709,00	611,40	404,70	244,80	148,90	106,80	71,02	48,40	41,40	22,20
TL 12 - 260	1281,00	921,80	794,80	526,10	318,20	193,50	138,90	92,33	62,92	53,82	28,86

### 1,70 V/Z - discharge in wattspers cell at 25 °C

Battery type	5 min	10 min	15 min	30 min	60 min	2 h	3 h	5 h	8 h	10 h	20 h
TL 12 - 7,5	49,45	33,38	25,52	14,37	9,49	5,39	3,90	2,66	1,76	1,49	0,79
TL 12 - 12	79,12	53,41	40,84	22,98	15,19	8,62	6,23	4,25	2,81	2,39	1,27
TL 12 - 18	118,70	80,11	61,26	34,48	22,78	12,92	9,35	6,37	4,22	3,58	1,90
TL 12 - 25	164,80	111,30	85,08	47,88	31,64	17,95	12,98	8,85	5,86	4,97	2,64
TL 12 - 28	184,60	124,60	95,29	53,63	35,44	20,10	14,26	9,72	6,43	5,46	2,89
TL 12 - 35	188,60	132,60	111,20	72,18	43,19	26,29	18,86	12,59	8,53	7,30	3,96
TL 12 - 45	242,50	170,40	143,00	92,80	55,53	33,80	24,25	16,18	10,97	9,39	5,09
TL 12 - 55	296,40	208,30	174,70	113,40	67,87	41,31	29,64	19,78	13,41	11,48	6,22
TL 12 - 65	350,20	246,20	206,50	134,00	80,21	48,82	35,02	23,37	15,85	13,56	7,35
TL 12 - 70	377,20	265,10	222,40	144,40	86,37	52,57	37,72	25,17	17,07	14,61	7,91
TL 12 - 80 L	431,10	303,00	254,20	165,00	98,71	60,08	43,11	28,77	19,50	16,69	9,04
TL 12 - 80 S	431,10	303,00	254,20	165,00	98,71	60,08	43,11	28,77	19,50	16,69	9,04
TL 12 - 90	485,00	340,90	285,90	185,60	111,10	67,59	48,50	32,36	21,94	18,78	10,17
TL 12 - 100	538,80	378,80	317,70	206,20	123,40	75,10	53,88	35,96	24,38	20,87	11,30
TL 12 - 120	646,60	454,50	381,20	247,50	148,10	90,12	64,66	43,15	29,25	25,04	13,56
TL 12 - 135	727,40	511,30	428,90	278,40	166,60	101,40	72,74	48,55	32,91	28,17	15,26
TL 12 - 150	808,30	568,20	476,50	309,30	185,10	112,70	80,83	53,94	36,57	31,30	16,95
TL 12 - 200	1077,70	757,60	635,40	412,50	246,80	150,20	107,80	71,92	48,76	41,73	22,60
TL 12 - 260	1401,00	984,80	826,00	536,20	320,80	195,30	140,10	93,50	63,39	54,25	29,38

### 1,60 V/Z - discharge in watts per cell at 25 °C

Battery type	5 min	10 min	15 min	30 min	60 min	2 h	3 h	5 h	8 h	10 h	20 h
TL 12 - 7,5	53,50	35,38	26,59	14,67	9,67	5,45	3,99	2,69	1,78	1,53	0,82
TL 12 - 12	85,61	56,61	42,54	23,47	15,47	8,72	6,38	4,31	2,85	2,44	1,31
TL 12 - 18	128,40	84,92	63,81	35,21	23,21	13,07	9,57	6,46	4,28	3,67	1,97
TL 12 - 25	178,30	117,90	88,63	48,90	32,23	18,16	13,29	8,97	5,94	5,09	2,73
TL 12 - 28	199,70	132,10	99,27	54,77	36,10	20,34	14,60	9,85	6,52	5,59	3,00
TL 12 - 35	205,30	141,40	115,30	73,50	43,60	26,52	19,16	12,86	8,65	7,39	4,06
TL 12 - 45	263,90	181,80	148,30	94,50	56,06	34,09	24,63	16,53	11,12	9,50	5,22
TL 12 - 55	322,60	222,20	181,20	115,50	68,52	41,67	30,11	20,21	13,59	11,61	6,38
TL 12 - 65	381,20	262,60	214,20	136,50	80,98	49,29	35,58	23,88	16,07	13,72	7,53
TL 12 - 70	410,60	282,70	230,70	147,00	87,21	53,03	38,32	25,72	17,30	14,78	8,11
TL 12 - 80 L	469,20	323,10	263,60	168,00	99,67	60,61	43,79	19,40	19,77	16,89	9,27
TL 12 - 80 S	469,20	323,10	263,60	168,00	99,67	60,61	43,79	19,40	19,77	16,89	9,27
TL 12 - 90	527,90	363,50	296,60	189,00	112,10	68,18	49,27	33,07	22,24	19,00	10,43
TL 12 - 100	586,50	403,90	329,50	210,00	124,60	75,76	54,74	36,74	24,72	21,11	11,59
TL 12 - 120	703,80	484,70	395,50	252,00	149,50	90,91	65,69	44,09	29,66	25,33	13,91
TL 12 - 135	791,80	545,30	444,90	283,50	168,20	102,30	73,90	49,60	33,37	28,50	15,65
TL 12 - 150	879,80	605,90	494,30	315,00	186,90	113,60	82,11	55,12	37,07	31,67	17,39
TL 12 - 200	1173,00	807,90	659,10	420,00	249,20	151,50	109,50	73,49	49,43	42,22	23,18
TL 12 - 260	1524,90	1050,20	856,80	546,00	323,90	197,00	142,30	95,54	64,26	54,89	30,13







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