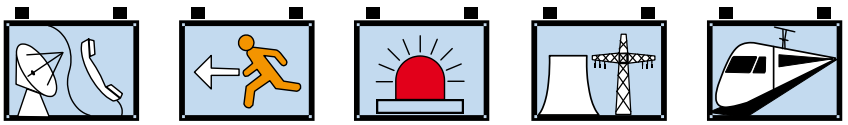
Guarantee

EverExceed®
power your applications

Front Access FT AGM Range VRLA
55Ah~200Ah

»Premium quality for uninterrupted communication«



www.everexceed.com

Front Access FT AGM Range VRLA

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SEALED VRLA MONOBLOC AGM BATTERIES

Capacities: 55AH to 200AH at C10

The extremely powerful, compact AGM batteries of EverExceed front access FT Range are an ideal energy source for durability in Telecommunications and Electric Utility applications. The EverExceed front access FT Range VRLA provides high performance and reliability in long duration discharge applications. Our development team combines the market's demand with design optimization, precision component selection and state-of-the-art manufacturing process to produce the most cost effective battery solution for today's applications.

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

Ideal Operating temperature range:
+20°C (+68°F) to +28°C (+82.4°F)

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

Applications

Front access FT range batteries Incorporate EverExceed's advanced VRLA technology designed for long life and high performance in:

- Telecommunications
- Distributed Power
- Wireless \ PCS
- Cellular Radio
- Microwave
- Broadband
- UPS
- Electric Utility
- Switchgear Control Power
- Communications
- Solar/Wind energy

Innovative Features

- Advanced Lead Tin alloy and thick positive plate technology design for maximum service float life - 12 years design life @ 20˚C(68˚F);
- Special front access design comply with telecom 19"/ 23" cabinet for space limitation;
- Valve regulated lead acid battery (VRLA);
- Optimized high-compression Absorbed Glass Mat (AGM) materials significantly enhance performance and reliability, greater than 99% recombination efficiency;
- 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.
- Advanced triple stage unique terminal sealing design to ensure leak free operation;
- Low self-discharge rate < 3% per month;
- Heavy duty M6 / M8 Female copper plated terminals provide maximum performance and easy installation, reduce maintenance and increase safety;
- Advanced lead high-tin low-calcium alloy, reduces grid corrosion and promotes long battery life;
- Standard: Reinforced ABS (UL 94HB) container and cover; Optional: Flame-retardant reinforced ABS case and cover compliant with U.L.94 V-0 with an Oxygen Limiting Index of greater than 28%;
- Designed to withstand extreme temperature degrees and performance without degradation;
- Flame arresting, low pressure safety release venting system for individual cells, recognized per U.L.924;

Standards and Compliances

- ISO 9001
- ISO 14001
- IEC 60896-21/22
- BS 6290 PART 4
- NEBS Compliant
- Bellcore, TR-NWT-000766

Designed in Quality Manufacturing

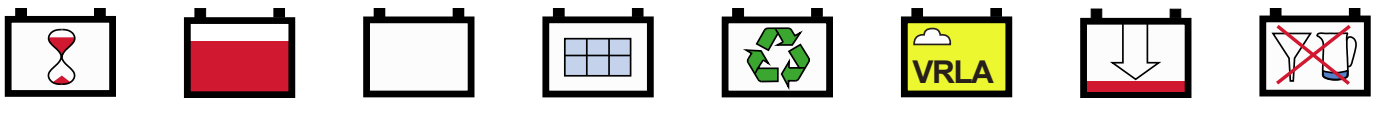
Quality manufacturing processes for the front access FT Range batteries incorporate the industry's most advanced technologies including: an automated sealing detection system, a computer controlled "fill by weight" acid filler, and a temperature controlled water bath formation process. Each and every unit is capacity tested.

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.

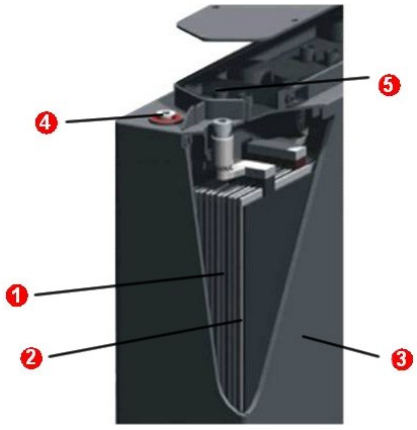
Air transport. Complies with IATA/ICAO, Special provision A67.



CONSTRUCTION - EverExceed's front access FT Range AGM battery construction is as shown in the diagram below. The positive and negative plates are cast from a Lead-Calcium-Tin alloy to reduce grid growth and corrosion. The active material is manufactured from high purity lead (>99.994%) to minimize the negative effects of impurities.

Separator is superior quality microporous mat of random woven acid resistant glass fibres, with high absorption and stability, which acts as sponge - soaking up and immobilizing the electrolyte whilst maintaining good acid to plate contact and availability during discharge. "U wrapping" is employed to eliminate the risk of short circuits due to mossing and debris at the bottom of the cell.

The purpose of the separator is to maintain a constant distance between the positive and negative plates, thus removing the possibility of short circuits whilst allowing the active material to fully react with the electrolyte. The random weaving also results in an open structure, which offers minimal resistance to the flow of electrolyte during filling.



① **Plates:** Lead-Calcium-Tin alloy, high Tin design, optimized for high corrosion resistance;

② **Separator:** Highly porous glass micro-fibre separator, optimized for low internal resistance, for maximum Absorption of the electrolyte and for electrical separation of the positive and negative plates.

③ **Standard Housing:** Reinforced ABS (UL 94HB) container and cover.

Optional Housing: Flame-retardant reinforced ABS container and cover compliant with U.L.94 V-0 with an Oxygen limiting Index of greater than 28%.

④ **Terminals:** Silver plated Copper female insert for easy and safe assembly and maintenance free connection with excellent conductivity.

⑤ **Valves:** Release gas in case of excess pressure and protects the cell against atmosphere.

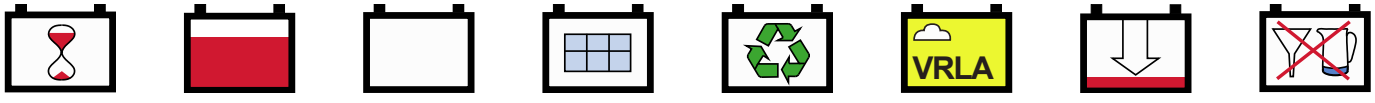
ELECTROLYTE FILLING - Special production and stringent QC systems are utilized to ensure the electrolyte saturation is optimized for each cell. Measured high vacuum acid fill, reduces electrical variability between cells. The battery design and construction negates the need for electrolyte addition and the battery remains maintenance free throughout its design life.

SAFETY RELEASE VALVE - The battery will operate above atmospheric pressure under normal operating conditions, however the maximum pressure is governed by the safety one-way release valve. Open is activated by pressures in excess of approx. 2 PSI (14 Kpa), resealing at approx. 1.2 PSI (8.4Kpa).

GAS RECOMBINATION - The gasses generated during normal operation of the battery are internally recombined. In fact more than 99% of the gas achieves recombination.

TERMINAL CONSTRUCTION - The contact quality between the insert terminal and the lead post is of vital importance during short duration / high Amp discharges. Elevated terminal temperatures are the result of poor contact, eventually causing seal degradation and electrolyte leaks.

EverExceed's design and assembly technique for terminal casting ensures trouble free operation for the design life of the battery.



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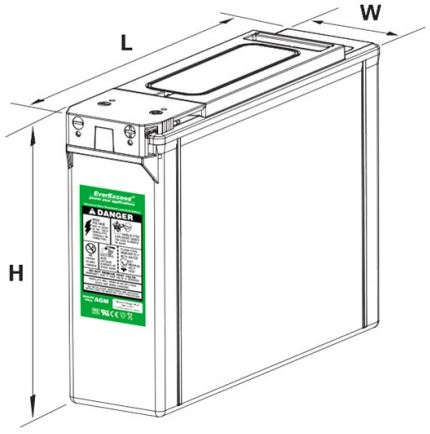
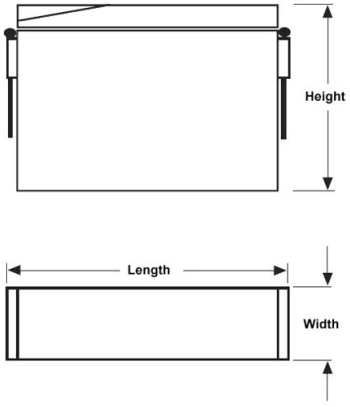
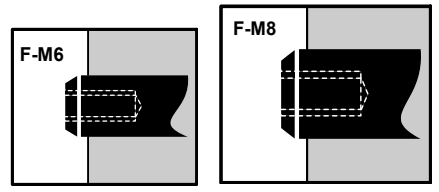
Front Access FT AGM Range Electrical Specifications & Dimensions

Battery Model	Nom. Voltage (V)	15 min. WPC 1.67VPC	Capacity C10 1.80VPC @ 20°C	Capacity C8 1.75VPC @ 20°C	Short Circuit Current Amps	Internal Re-sistance Milliohms	Female Terminal Type	Battery Weight (kg/lb)		Outline Dimensions (mm/inch)					
										Length		Width		Height	
FT6V200	6	619	200	198	3500	1.8	F-M8	31.5	69.3	363	14.3	125	4.92	250	9.84
FT12V55	12	168	55.0	54.5	1600	6.5	F-M6	17.3	38.1	280	11	105	4.13	225	8.86
FT12V75	12	227	75.0	74.3	2300	5.4	F-M6	26.5	58.3	560	22	115	4.53	185	7.28
FT12V80	12	244	80.0	79.2	2450	5.1	F-M8	28.0	61.6	395	15.6	110	4.33	285	11.2
FT12V100A	12	320	103	102	3000	4.7	F-M8	34.0	74.8	395	15.6	110	4.33	285	11.2
FT12V100B	12	305	100	99.2	2950	4.9	F-M8	31.0	68.2	395	15.6	110	4.33	285	11.2
FT12V110	12	333	110	109	3150	4.6	F-M8	30.0	66.1	510	20.1	110	4.33	225	8.86
FT12V120A	12	375	124	122	3350	4.4	F-M8	34.5	75.9	395	15.6	110	4.33	285	11.2
FT12V120B	12	363	120	119	3200	4.5	F-M8	32.0	70.4	550	21.7	110	4.33	240	9.45
FT12V150	12	464	150	149	3680	4.0	F-M8	44.0	96.8	550	21.7	110	4.33	285	11.2
FT12V155A	12	495	160	157	3800	3.7	F-M8	49.0	108	550	21.7	110	4.33	285	11.2
FT12V155B	12	480	155	153	3700	3.8	F-M8	47.0	103	550	21.7	110	4.33	285	11.2
FT12V170	12	526	170	168	4200	3.5	F-M8	52.0	114	560	22	125	4.92	316	12.4
FT12V180A	12	574	185	184	4500	3.3	F-M8	58.0	128	560	22	125	4.92	316	12.4
FT12V180B	12	557	180	178	4250	3.4	F-M8	53.0	117	560	22	125	4.92	316	12.4
FT12V190	12	588	190	188	4800	3.2	F-M8	59.0	130	560	22	125	4.92	316	12.4
FT12V200	12	619	200	198	5000	3.0	F-M8	59.5	131	560	22	125	4.92	316	12.4



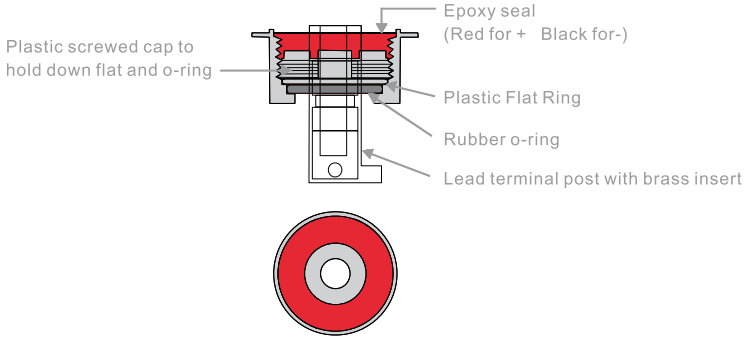


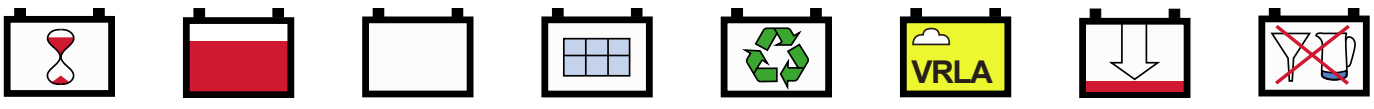
Terminal and Torque



12 years Design Life
Grid Plate
Monobloc Battery
Nominal Capacity 55~200Ah
Deep Discharge Recovery
Maintenance Free
Recyclable
Valve Regulated Lead Acid

Float Voltage & Charging
Constant voltage charging is recommended
Recommended float voltage: 13.5V @ 20ºC(68ºF)
Float voltage range: 13.5V to 13.8V @ 20ºC(68ºF)
Equalize voltage: 14.1V for 12 Hours

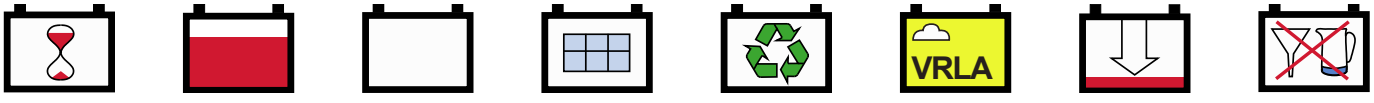




Front Access FT AGM Range VRLA Discharge Ampere Hours Data @ 20°C

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		2	3	4	5	6	8	10	20
FT6V200	1.8	465	350	298	205	155	124	1.85	141	152	161	166	178	185	194	210
	1.75	530	385	325	212	161	129	1.8	146	161	170	177	188	191	200	216
	1.67	612	428	352	215	163	131	1.75	149	165	175	180	195	198	203	220
FT12V55	1.8	128	96	82.0	56.4	42.6	34.1	1.85	38.8	41.8	44.3	45.7	49.0	50.9	53.4	57.8
	1.75	146	106	89.4	58.3	44.3	35.5	1.8	40.2	44.3	46.8	48.7	51.7	52.5	55.0	59.4
	1.67	168	118	97	59.1	44.8	36.0	1.75	41.0	45.4	48.1	49.5	53.6	54.5	55.8	60.5
FT12V75	1.8	174	131	112	76.9	58.1	46.5	1.85	52.9	57.0	60.4	62.3	66.8	69.4	72.8	78.8
	1.75	199	144	122	79.5	60.4	48.4	1.8	54.8	60.4	63.8	66.4	70.5	71.6	75.0	81.0
	1.67	230	161	132	80.6	61.1	49.1	1.75	55.9	61.9	65.6	67.5	73.1	74.3	76.1	82.5
FT12V80	1.8	186	140	119	82.0	62.0	49.6	1.85	56.4	60.8	64.4	66.4	71.2	74.0	77.6	84.0
	1.75	212	154	130	84.8	64.4	51.6	1.8	58.4	64.4	68.0	70.8	75.2	76.4	80.0	86.4
	1.67	245	171	141	86.0	65.2	52.4	1.75	59.6	66.0	70.0	72.0	78.0	79.2	81.2	88.0
FT12V100A	1.8	239	180	153	106	79.8	63.9	1.85	72.6	78.3	82.9	85.5	91.7	95.3	100	108
	1.75	273	198	167	109	82.9	66.4	1.8	75.2	82.9	87.6	91.2	96.8	98.4	103	111
	1.67	315	220	181	111	83.9	67.5	1.75	76.7	85.0	90.1	92.7	100	102	105	113
FT12V100B	1.8	233	175	149	103	77.5	62.0	1.85	70.5	76.0	80.5	83.0	89.0	92.5	97.0	105
	1.75	265	193	163	106	80.5	64.5	1.8	73.0	80.5	85.0	88.5	94.0	95.5	100	108
	1.67	306	214	176	108	81.5	65.5	1.75	74.5	82.5	87.5	90.0	97.5	99.2	102	110
FT12V110	1.8	256	193	164	113	85.3	68.2	1.85	77.6	83.6	88.6	91.3	97.9	102	107	116
	1.75	292	212	179	117	88.6	71.0	1.8	80.3	88.6	93.5	97.4	103	105	110	119
	1.67	337	235	194	118	89.7	72.1	1.75	82.0	90.8	96.3	99.0	107	109	112	121
FT12V120A	1.8	287	216	184	127	95.8	76.6	1.85	87.1	93.9	99.5	103	110	114	120	130
	1.75	328	238	201	131	99.5	79.7	1.8	90.2	99.5	105	109	116	118	124	133
	1.67	378	265	218	133	101	81.0	1.75	92.1	102	108	111	121	122	125	136
FT12V120B	1.8	279	210	179	123	93.0	74.4	1.85	84.6	91.2	96.6	100	107	111	116	126
	1.75	318	231	195	127	96.6	77.4	1.8	87.6	96.6	102	106	113	115	120	130
	1.67	367	257	211	129	98	78.6	1.75	89.4	99	105	108	117	119	122	132

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



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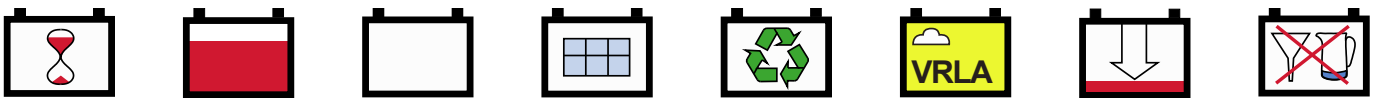
Front Access FT AGM Range VRLA Discharge Ampere Hours Data @ 20°C

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		2	3	4	5	6	8	10	20
FT12V150	1.8	349	263	224	154	116	93	1.85	106	114	121	125	134	139	146	158
	1.75	398	289	244	159	121	97	1.8	110	121	128	133	141	143	150	162
	1.67	459	321	264	161	122	98	1.75	112	124	131	135	146	149	152	165
FT12V155A	1.8	371	279	238	164	124	99	1.85	113	121	129	133	142	148	155	168
	1.75	423	307	259	169	129	103	1.8	117	129	136	141	150	152	160	172
	1.67	489	342	281	172	130	105	1.75	119	132	140	144	156	158	162	176
FT12V155B	1.8	360	271	231	159	120	96	1.85	109	118	125	129	138	143	150	163
	1.75	411	298	252	164	125	100	1.8	113	125	132	137	146	148	155	167
	1.67	474	332	273	167	126	102	1.75	115	128	136	140	151	154	157	171
FT12V170	1.8	395	298	253	174	132	105	1.85	120	129	137	141	151	157	165	179
	1.75	451	327	276	180	137	110	1.8	124	137	145	150	160	162	170	184
	1.67	520	364	299	183	139	111	1.75	127	140	149	153	166	168	173	187
FT12V180A	1.8	431	324	276	190	144	115	1.85	131	141	149	154	165	171	180	195
	1.75	491	357	301	197	149	120	1.8	135	149	158	164	174	177	185	200
	1.67	567	397	326	199	151	121	1.75	138	153	162	167	181	184	188	204
FT12V180B	1.8	419	315	268	185	140	112	1.85	127	137	145	149	160	167	175	189
	1.75	477	347	293	191	145	116	1.8	131	145	153	159	169	172	180	194
	1.67	551	385	317	194	147	118	1.75	134	149	158	162	176	178	183	198
FT12V190	1.8	442	333	283	195	147	118	1.85	134	144	153	158	169	176	184	200
	1.75	504	366	309	201	153	123	1.8	139	153	162	168	179	181	190	205
	1.67	581	407	334	204	155	124	1.75	142	157	166	171	185	188	193	209
FT12V200	1.8	465	350	298	205	155	124	1.85	141	152	161	166	178	185	194	210
	1.75	530	385	325	212	161	129	1.8	146	161	170	177	188	191	200	216
	1.67	612	428	352	215	163	131	1.75	149	165	175	180	195	198	203	220

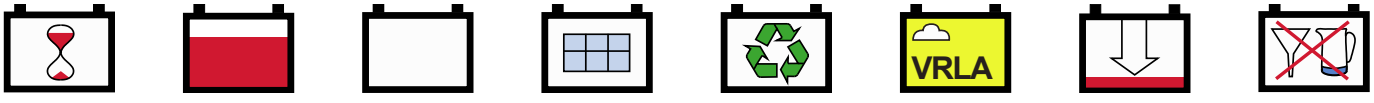
Actual Battery Discharge Data may be +/-5% of figures shown above.



Front Access FT AGM Range VRLA Discharge Amps Data @ 20°C

Battery Model	End VPC	Discharge Data Amps @ 20°C — Discharge Time In Minutes						End VPC	Discharge Data Amps @ 20°C — Discharge Time In Hours							
		5	10	15	30	45	60		2	3	4	5	6	8	10	20
FT6V200	1.8	465	350	298	205	155	124	1.85	70.5	50.7	40.3	33.2	29.7	23.1	19.4	10.5
	1.75	530	385	325	212	161	129	1.8	73.0	53.7	42.5	35.4	31.3	23.9	20.0	10.8
	1.67	612	428	352	215	163	131	1.75	74.5	55.0	43.8	36.0	32.5	24.8	20.3	11.0
FT12V55	1.8	128	96	82.0	56.4	42.6	34.1	1.85	19.4	13.9	11.1	9.13	8.16	6.36	5.34	2.89
	1.75	146	106	89.4	58.3	44.3	35.5	1.8	20.1	14.8	11.7	9.74	8.62	6.57	5.50	2.97
	1.67	168	118	97	59.1	44.8	36.0	1.75	20.5	15.1	12.0	9.90	8.94	6.81	5.58	3.03
FT12V75	1.8	174	131	112	76.9	58.1	46.5	1.85	26.4	19.0	15.1	12.5	11.1	8.67	7.28	3.94
	1.75	199	144	122	79.5	60.4	48.4	1.8	27.4	20.1	15.9	13.3	11.8	8.95	7.50	4.05
	1.67	230	161	132	80.6	61.1	49.1	1.75	27.9	20.6	16.4	13.5	12.2	9.28	7.61	4.13
FT12V80	1.8	186	140	119	82.0	62.0	49.6	1.85	28.2	20.3	16.1	13.3	11.9	9.25	7.76	4.20
	1.75	212	154	130	84.8	64.4	51.6	1.8	29.2	21.5	17.0	14.2	12.5	9.55	8.00	4.32
	1.67	245	171	141	86.0	65.2	52.4	1.75	29.8	22.0	17.5	14.4	13.0	9.90	8.12	4.40
FT12V100A	1.8	239	180	153	106	79.8	63.9	1.85	36.3	26.1	20.7	17.1	15.3	11.9	10.0	5.41
	1.75	273	198	167	109	82.9	66.4	1.8	37.6	27.6	21.9	18.2	16.1	12.3	10.3	5.56
	1.67	315	220	181	111	83.9	67.5	1.75	38.4	28.3	22.5	18.5	16.7	12.7	10.5	5.67
FT12V100B	1.8	233	175	149	103	77.5	62.0	1.85	35.3	25.3	20.1	16.6	14.8	11.6	9.70	5.25
	1.75	265	193	163	106	80.5	64.5	1.8	36.5	26.8	21.3	17.7	15.7	11.9	10.0	5.40
	1.67	306	214	176	108	81.5	65.5	1.75	37.3	27.5	21.9	18.0	16.3	12.4	10.2	5.50
FT12V110	1.8	256	193	164	113	85.3	68.2	1.85	38.8	27.9	22.1	18.3	16.3	12.7	10.7	5.78
	1.75	292	212	179	117	88.6	71.0	1.8	40.2	29.5	23.4	19.5	17.2	13.1	11.0	5.94
	1.67	337	235	194	118	89.7	72.1	1.75	41.0	30.3	24.1	19.8	17.9	13.6	11.2	6.05
FT12V120A	1.85	287	216	184	127	95.8	76.6	1.85	43.6	31.3	24.9	20.5	18.3	14.3	12.0	6.49
	1.8	328	238	201	131	99.5	79.7	1.8	45.1	33.2	26.3	21.9	19.4	14.8	12.4	6.67
	1.75	378	265	218	133	101	81.0	1.75	46.0	34.0	27.0	22.2	20.1	15.3	12.5	6.80
FT12V120B	1.8	279	210	179	123	93.0	74.4	1.85	42.3	30.4	24.2	19.9	17.8	13.9	11.6	6.30
	1.75	318	231	195	127	96.6	77.4	1.8	43.8	32.2	25.5	21.2	18.8	14.3	12.0	6.48
	1.67	367	257	211	129	98	78.6	1.75	44.7	33.0	26.3	21.6	19.5	14.9	12.2	6.60

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



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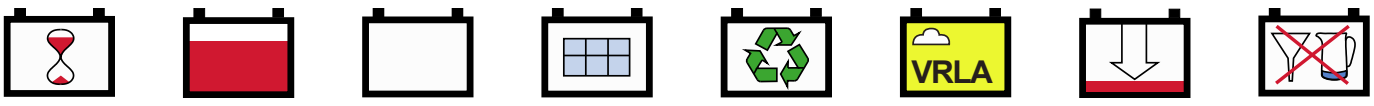
Front Access FT AGM Range VRLA Discharge Amps Data @ 20°C

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		2	3	4	5	6	8	10	20
FT12V150	1.8	349	263	224	154	116	93	1.85	52.9	38.0	30.2	24.9	22.3	17.3	14.6	7.88
	1.75	398	289	244	159	121	97	1.8	54.8	40.3	31.9	26.6	23.5	17.9	15.0	8.10
	1.67	459	321	264	161	122	98	1.75	55.9	41.3	32.8	27.0	24.4	18.6	15.2	8.25
FT12V155A	1.8	371	279	238	164	124	99	1.85	56.3	40.4	32.1	26.5	23.7	18.5	15.5	8.38
	1.75	423	307	259	169	129	103	1.8	58.3	42.8	33.9	28.3	25.0	19.1	16.0	8.62
	1.67	489	342	281	172	130	105	1.75	59.5	43.9	34.9	28.7	25.9	19.8	16.2	8.78
FT12V155B	1.8	360	271	231	159	120	96	1.85	54.6	39.3	31.2	25.7	23.0	17.9	15.0	8.14
	1.75	411	298	252	164	125	100	1.8	56.6	41.6	32.9	27.4	24.3	18.5	15.5	8.37
	1.67	474	332	273	167	126	102	1.75	57.7	42.6	33.9	27.9	25.2	19.2	15.7	8.53
FT12V170	1.8	395	298	253	174	132	105	1.85	59.9	43.1	34.2	28.2	25.2	19.7	16.5	8.93
	1.75	451	327	276	180	137	110	1.8	62.1	45.6	36.1	30.1	26.6	20.3	17.0	9.18
	1.67	520	364	299	183	139	111	1.75	63.3	46.8	37.2	30.6	27.6	21.0	17.3	9.35
FT12V180A	1.8	431	324	276	190	144	115	1.85	65.4	47.0	37.3	30.8	27.5	21.4	18.0	9.73
	1.75	491	357	301	197	149	120	1.8	67.7	49.7	39.4	32.8	29.0	22.1	18.5	10.0
	1.67	567	397	326	199	151	121	1.75	69.1	51.0	40.6	33.4	30.1	23.0	18.8	10.2
FT12V180B	1.8	419	315	268	185	140	112	1.85	63.5	45.6	36.2	29.9	26.7	20.8	17.5	9.45
	1.75	477	347	293	191	145	116	1.8	65.7	48.3	38.3	31.9	28.2	21.5	18.0	9.72
	1.67	551	385	317	194	147	118	1.75	67.1	49.5	39.4	32.4	29.3	22.3	18.3	9.90
FT12V190	1.8	442	333	283	195	147	118	1.85	67.0	48.1	38.2	31.5	28.2	22.0	18.4	10.0
	1.75	504	366	309	201	153	123	1.8	69.4	51.0	40.4	33.6	29.8	22.7	19.0	10.3
	1.67	581	407	334	204	155	124	1.75	70.8	52.3	41.6	34.2	30.9	23.5	19.3	10.5
FT12V200	1.8	465	350	298	205	155	124	1.85	70.5	50.7	40.3	33.2	29.7	23.1	19.4	10.5
	1.75	530	385	325	212	161	129	1.8	73.0	53.7	42.5	35.4	31.3	23.9	20.0	10.8
	1.67	612	428	352	215	163	131	1.75	74.5	55.0	43.8	36.0	32.5	24.8	20.3	11.0

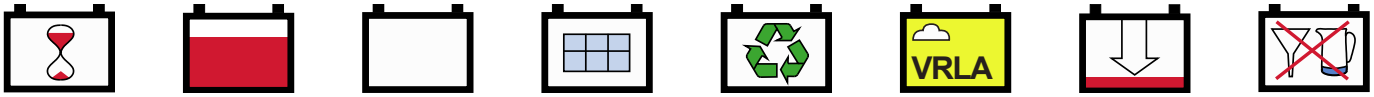
Actual Battery Discharge Data may be +/-5% of figures shown above.



Front Access FT AGM Range VRLA Discharge Watts Per Cell (WPC) Data @ 20°C

Battery Model	End VPC	Discharge Data Watts per Cell @ 20°C						End VPC	Discharge Data Watts per Cell @ 20°C							
		Discharge Time In Minutes							Discharge Time In Hours							
		5	10	15	30	45	60		2	3	4	5	6	8	10	20
FT6V200	1.8	806	618	553	387	300	238	1.85	134	100	79.3	66	57.5	45.5	38	21.5
	1.75	904	675	582	403	309	246	1.8	138	103	82	69.1	58.6	47.5	39.3	22.2
	1.67	988	730	619	413	315	249	1.75	140	104	82.7	70.5	60	48.3	40.3	22.6
FT12V55	1.8	232	177	147	96	72.8	60.8	1.85	38.9	28	22.1	19.5	18.4	12.6	10.6	5.90
	1.75	255	190	160	99.3	75.1	62.3	1.8	41	29.5	23.3	20.6	19.4	13.3	11.1	6.20
	1.67	278	204	168	102	74.4	63	1.75	42	30.1	23.7	21	19.8	13.5	11.3	6.30
FT12V75	1.8	313	239	199	129	98.8	81.9	1.85	52.4	37.6	30	25.3	24.8	17.3	14.5	8.20
	1.75	344	256	216	134	102	84.4	1.8	55	39.6	31.3	26	26.1	17.9	14.8	8.40
	1.67	375	276	227	137	103	85	1.75	56.4	40.4	31.8	26.6	26.8	18.2	15.2	8.50
FT12V80	1.8	337	258	214	139	106	88.4	1.85	56.6	40.6	32.1	28.3	26.7	18.4	15.4	8.60
	1.75	370	276	233	144	109	90.6	1.8	59.6	42.8	33.9	29.9	28.2	19.4	16.1	9.00
	1.67	404	296	244	148	110	91.5	1.75	61.1	43.7	34.5	30.4	28.7	19.7	16.4	9.20
FT12V100A	1.8	441	338	280	179	136	113	1.85	72.7	52.2	41.2	36.4	34.3	23.6	19.8	11.0
	1.75	485	361	305	185	140	116	1.8	76.5	55.0	43.5	38.3	36.2	24.8	20.6	11.5
	1.67	529	389	320	190	141	117	1.75	78.5	56.1	44.3	39.0	36.9	25.3	21.1	11.8
FT12V100B	1.8	420	322	267	174	132	110	1.85	70.6	50.7	40	35.3	33.3	22.9	19.2	10.7
	1.75	462	344	290	180	136	113	1.8	74.3	53.4	42.2	37.2	35.1	24.1	20	11.2
	1.67	504	370	305	184	137	114	1.75	76.2	54.5	43	37.9	35.8	24.6	20.5	11.5
FT12V110	1.8	459	351	292	190	145	120	1.85	77.1	55.4	43.8	38.6	36.4	25.0	21.0	11.7
	1.75	505	376	317	197	149	124	1.8	81.2	58.4	46.1	40.6	38.3	26.4	21.9	12.3
	1.67	550	404	333	201	150	125	1.75	83.3	59.6	47.0	41.6	39.2	26.8	22.3	12.6
FT12V120A	1.8	516	394	329	213	163	135	1.85	86.4	61.9	49.4	41.7	40.9	28.5	23.9	13.5
	1.75	568	422	356	221	168	139	1.8	90.6	65.3	51.6	42.8	43.1	29.6	24.4	13.8
	1.67	618	454	375	226	169	140	1.75	92.9	66.5	52.4	43.8	44.1	30.0	25.0	14.0
FT12V120B	1.8	501	383	319	207	158	131	1.85	83.9	60.1	48.0	40.5	39.7	27.7	23.2	13.1
	1.75	551	410	346	215	163	135	1.8	88.0	63.4	50.1	41.6	41.8	28.7	23.7	13.4
	1.67	600	441	363	219	164	136	1.75	90.2	64.6	50.9	42.5	42.8	29.1	24.3	13.6

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



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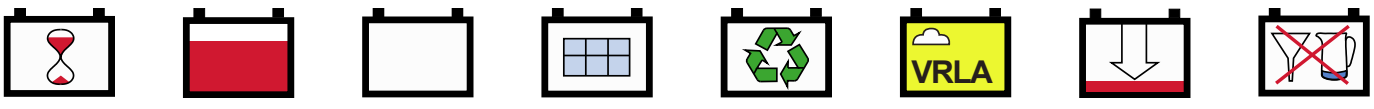
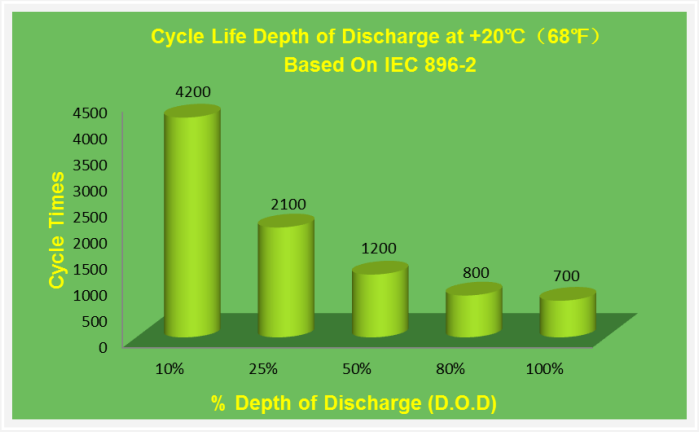
Front Access FT AGM Range VRLA Discharge Watts Per Cell (WPC) Data @ 20°C

Battery Model	End VPC	Discharge Data Watts per Cell @ 20°C — Discharge Time In Minutes						End VPC	Discharge Data Watts per Cell @ 20°C — Discharge Time In Hours							
		5	10	15	30	45	60		2	3	4	5	6	8	10	20
FT12V150	1.8	605	464	415	290	225	179	1.85	101	75.0	59.5	49.5	43.1	34.1	28.5	16.1
	1.75	678	506	437	302	232	185	1.8	104	77.3	61.5	51.8	44.0	35.6	29.5	16.7
	1.67	741	548	464	310	236	187	1.75	105	78.0	62.0	52.9	45.0	36.2	30.2	17.0
FT12V155A	1.8	643	493	441	309	239	190	1.85	106	79.1	62.7	52.2	45.5	36.0	30.0	17.0
	1.75	722	539	465	322	247	196	1.8	109	81.4	64.8	54.6	46.3	37.5	31.1	17.5
	1.67	789	583	495	330	251	199	1.75	111	82.2	65.4	55.7	47.4	38.2	31.9	17.9
FT12V155B	1.8	625	479	429	300	233	184	1.85	104	77.5	61.5	51.2	44.6	35.3	29.5	16.7
	1.75	701	523	451	312	239	191	1.8	107	79.8	63.6	53.6	45.4	36.8	30.5	17.2
	1.67	766	566	480	320	244	193	1.75	109	80.6	64.1	54.6	46.5	37.4	31.2	17.5
FT12V170	1.8	685	525	470	329	255	202	1.85	114	85.0	67.4	56.1	48.9	38.7	32.3	18.3
	1.75	768	574	495	343	263	209	1.8	117	87.6	69.7	58.7	49.8	40.4	33.4	18.9
	1.67	840	621	526	351	268	212	1.75	119	88.4	70.3	59.9	51.0	41.1	34.3	19.2
FT12V180A	1.8	747	573	513	359	278	221	1.85	124	92.7	73.5	61.2	53.3	42.2	35.2	19.9
	1.75	838	626	540	374	286	228	1.8	128	95.5	76.0	64.1	54.3	44.0	36.4	20.6
	1.67	916	677	574	383	292	231	1.75	130	96.4	76.7	65.4	55.6	44.8	37.4	21.0
FT12V180B	1.8	725	556	498	348	270	214	1.85	121	90.0	71.4	59.4	51.8	41.0	34.2	19.4
	1.75	814	608	524	363	278	221	1.8	124	92.7	73.8	62.2	52.7	42.8	35.4	20.0
	1.67	889	657	557	372	284	224	1.75	126	93.6	74.4	63.5	54.0	43.5	36.3	20.3
FT12V190	1.8	766	587	525	368	285	226	1.85	127	95.0	75.3	62.7	54.6	43.2	36.1	20.4
	1.75	859	641	553	383	294	234	1.8	131	97.9	77.9	65.6	55.7	45.1	37.3	21.1
	1.67	939	694	588	392	299	237	1.75	133	98.8	78.6	67.0	57.0	45.9	38.3	21.5
FT12V200	1.8	806	618	553	387	300	238	1.85	134	100	79.3	66	57.5	45.5	38	21.5
	1.75	904	675	582	403	309	246	1.8	138	103	82	69.1	58.6	47.5	39.3	22.2
	1.67	988	730	619	413	315	249	1.75	140	104	82.7	70.5	60	48.3	40.3	22.6

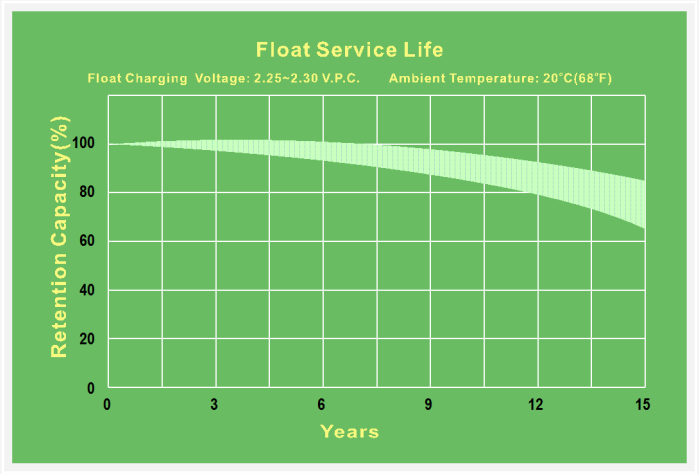
Actual Battery Discharge Data may be +/-5% of figures shown above.

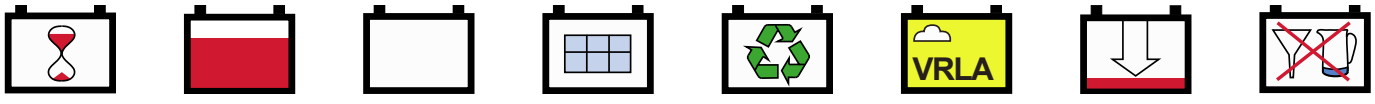


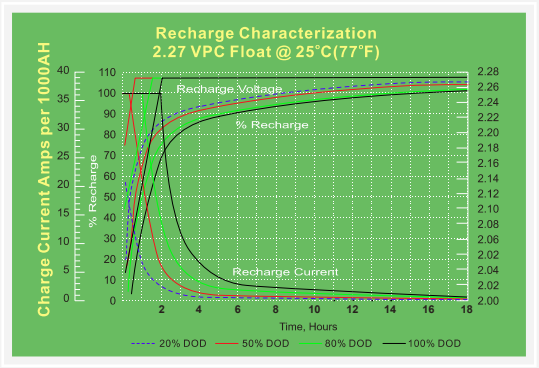


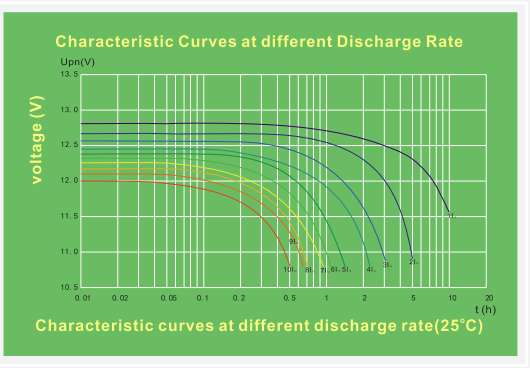
TYPICAL CYCLIC PERFORMANCE

CAPACITY WITHDRAWN	CYCLES
100%	700
80%	800
50%	1200
25%	2100
10%	4200





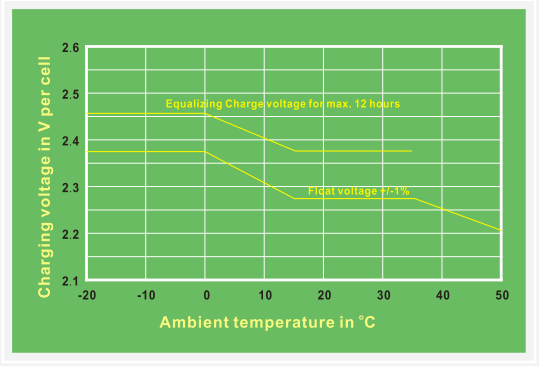


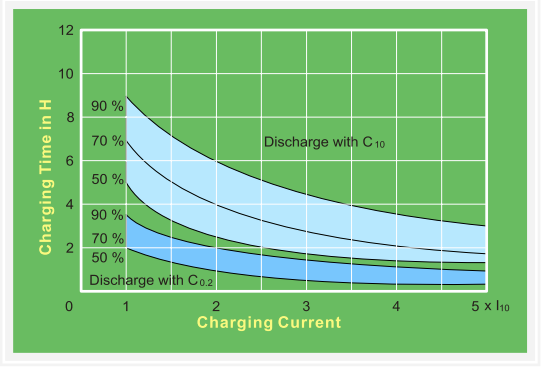


Float Voltage & charging

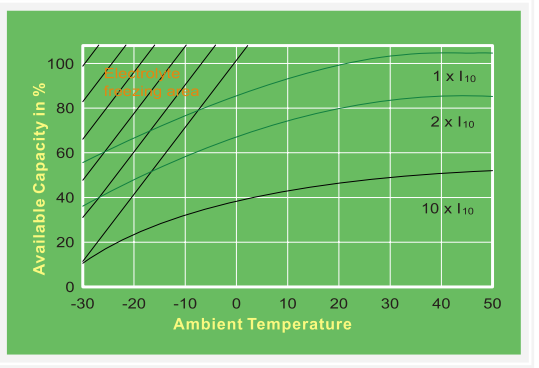
Constant Voltage charging is recommended
Recommended float voltage: 2.27VPC @ 20°C(68°F)
Float Voltage Range: 2.25VPC to 2.30 VPC @ 20°C(68°F)
Equalize voltage: 2.35VPC for 12 Hours

Temperature compensation:
Apply for temperature range of 0°C / 32°F to 40°C / 104°F. Sub tract 3 mV / °C / cell or 1.7 mV / °F / cell, above 25°C / 77°F. Add 3mV / °C / cell or 1.7 mV / °F / cell, below 25°C / 77°F.



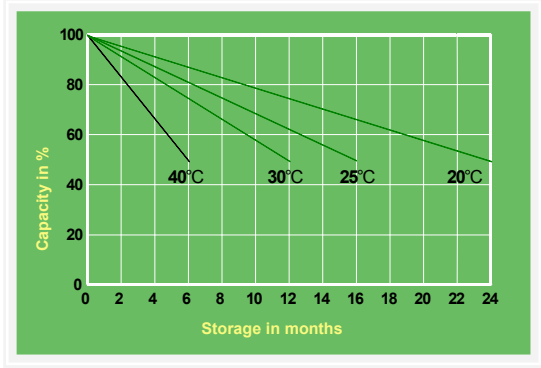


For charging 2.27 V/cell is recommended. The charging voltage must be compensated according to the curve for continuously different battery ambient temperature.

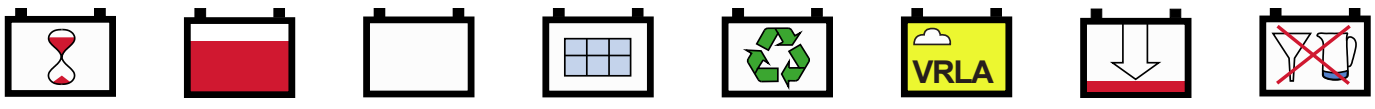


Extracted capacity in relation to the temperature.

Recharging time in dependence of charging current (guide values) for up to 50, 70 and 90% of capacity at 25°C and with a charging voltage of 2.27 V/cell.



Self-discharge in relation to the storage temperature.



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