

Product information

The new **Gaston GT-F** range of valve regulated lead acid batteries has been designed specifically for use in applications which demand the highest levels of security and reliability. With proven compliance to the most rigorous international standards, **Gaston GT-F** is recognised worldwide as the premium battery for Telecom/IT applications. Gaston's reputation for long service life, combined with excellent high rate performance, also makes it the number one choice for high integrity, high specification UPS systems.

Gaston GT-F delivers superior performance whilst occupying less space than conventional standby power batteries. The use of V0 rated, flame retardant, ABS plastic for the thick wall containers and lids offers high mechanical strength with excellent safety features.

In addition, the **Gaston GT-F** front terminal monobloc's compact design and standard footprint, suitable for 19", 23" and ETSI racking, give users the benefit of increased energy density. With all electrical connections at the front, installation and inspection are simpler and quicker.

The front terminals facilitate easy access when connecting up the monoblocs during the installation, and simplify maintenance. Maintenance costs are therefore reduced and system reliability improved. The front access terminals are fully insulated by terminal covers thus ensuring electrical safety. The terminal covers have a specially designed access hole to enable voltage readings to be made safely and easily. The compact design facilitates a minimum footprint allowing a better battery layout both in cabinets and racks.

A new grid design with a very thick positive plate ensures a long life with excellent performance at long discharge rates.

The highest quality level is ensured by the ISO 9001 Certified Quality System.

Applications

GASTON F range batteries incorporate advanced VRLA technology designed for 10 year design life @ 25°C (77°F) and high performance in:

Telecommunications

- Distributed power
- PCS
- Cellular
- Broadband

Electric Utility

- Switchgear control power
- Communications

UPS

LongLife Front Terminal GT-F Range



Features and Benefits

Positive and negative plates in lead-calcium tin alloy
 lid and case in strong flame retardant ABS
 Terminals with brass inserts for maximum conductivity and with high compression grommet for long life
 Pressure relief valve complete with integral flame arrestor
 Available in monoblocs from 50-155Ah at 10 hour rate to 1.80Vpc at 20°C
 6 months shelf life at 20°C

Installation

Easy access to installation and maintenance
 In cabinets or on stands. No separate battery room necessary
 Ideal for installation as an integral part of a standby system due to its long life

Flame retardant construction for optimum safety(optional)

Meet UL94 V-0, 28% L.O.I.

Reduced Maintenance

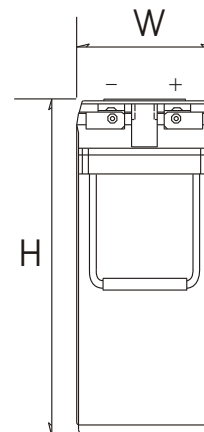
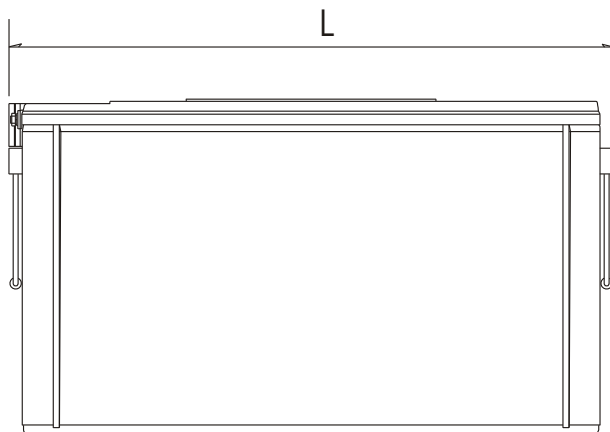
No water addition

Standards

IEC 896 Part 2
 BS 6290 Part 4
 CEI en 60896-2

General Specifications

Type	Nominal Voltage(V)	Nominal Capacity(Ah)@ 20°C		Dimensions in millimeters and (inches)			Typical Weight (kg)
		C ₁₀ to 1.80Vpc	C ₃ to 1.80Vpc	Length	Width	Overall Height	
GT 12-50F	12	50	38	390(15.35)	105(4.13)	227(8.94)	21.5
GT 12-75F	12	78	56	558(21.96)	105(4.13)	227(8.94)	31
GT 12-100F	12	100	75	558(21.96)	125(4.92)	227(8.94)	39
GT 12-105F	12	105	78	511(20.12)	110(4.33)	238(9.38)	36
GT 12-125F	12	125	95	558(21.96)	125(4.92)	270(10.63)	49
GT 12-150F	12	150	113	558(21.96)	125(4.92)	310(12.20)	57
GT 12-160F	12	155	117	558(21.96)	124(4.88)	283(11.15)	54



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Discharge data (Amperes,25°C)

		Discharge characteristics (Amperes,25°C)													
End Voltage	Battery Model	1Min	5Min	15Min	30Min	1h	2h	3h	5h	6h	8h	10h	12h	20h	24h
9.60v	GT12-50F	193	175	87.5	55	32.5	23	14	10	8.75	6.6	5.5	5	2.85	2.5
	GT12-75F	290	262	131	82.5	48	34.5	21	15	13	9.8	8.2	7.5	4.2	3.7
	GT12-100F	387	350	175	110	65	46	28	20	17.5	13	11	10	5.7	5.0
	GT12-105F	406	367	184	115	68	48	29	21	18.3	13.6	11.5	10.5	5.9	5.2
	GT12-125F	483	437	218	137	81.2	57.5	35	25	21.8	16.5	13.7	12.5	7.1	6.2
	GT12-150F	580	525	262	165	97.5	69	42	30	26.2	19.5	16.5	15	8.5	7.5
	GT12-160F	597	551	275	173	102	72	43	31	26.9	20.5	17.3	15.7	8.7	7.7

		Discharge characteristics (Amperes,25°C)													
End Voltage	Battery Model	1Min	5Min	15Min	30Min	1h	2h	3h	5h	6h	8h	10h	12h	20h	24h
9.90v	GT12-50F	185	161	83.5	52.5	31.5	23	13.5	9.7	8.6	6.5	5.4	5	2.5	2.5
	GT12-75F	278	241	125	78.7	47.2	34.5	20.2	14.6	12.9	9.7	8.1	7.5	4.2	3.7
	GT12-100F	371	322	167	105	63	46	27	19.5	17.5	13.2	10.8	10	5.6	5.0
	GT12-105F	389	338	175	110	66	48	28	20.4	18.3	13.8	11.3	10.5	5.8	5.2
	GT12-125F	463	402.5	208	131	78.7	57.5	33.7	24.3	21.5	16.2	13.5	12.5	7.0	6.2
	GT12-150F	556	483	250	157	94.5	69	40.5	29.2	25.8	19.8	16.2	15	8.4	7.5
	GT12-160F	572	507	218	161	97.3	71.1	41.7	30.1	26.5	20.4	16.6	15.4	8.6	7.7

		Discharge characteristics (Amperes,25°C)													
End Voltage	Battery Model	1Min	5Min	15Min	30Min	1h	2h	3h	5h	6h	8h	10h	12h	20h	24h
10.2v	GT12-50F	178	149	81	50.5	31	22.2	13	9.5	8.2	6.4	5.3	4.8	2.75	2.4
	GT12-75F	267	223	121.5	75.7	46.5	33.3	19.5	14.2	12.4	9.6	8.0	7.2	4.1	3.6
	GT12-100F	356	298	162	101	62	44.5	26	19	16.5	12.8	10.7	9.7	5.5	4.8
	GT12-105F	373	312	170	106	65	46.7	27.3	19.9	17.3	13.4	11.2	10.2	5.7	5.0
	GT12-125F	445	372.5	202.5	126.3	77.5	55.6	32.5	23.7	20.6	16	13.3	12.1	6.87	6.0
	GT12-150F	534	447	243	151.5	93	66.7	39	28.5	24.7	19.2	16.0	14.5	8.2	7.2
	GT12-160F	550	469	255	156	95	68.7	40.1	29.4	25.4	19.7	16.5	15.2	8.4	7.4

		Discharge characteristics (Amperes,25°C)													
End Voltage	Battery Model	1Min	5Min	15Min	30Min	1h	2h	3h	5h	6h	8h	10h	12h	20h	24h
10.5v	GT12-50F	156	133	75	49	30	21	12.5	9.2	8	6.25	5.2	4.6	2.6	2.3
	GT12-75F	234	199	112	73	45	31.5	18.7	13.8	12	9.3	7.8	6.9	3.9	3.4
	GT12-100F	312	266	150	98	60	42	25	18.5	16	12.5	10.5	9.2	5.3	4.6
	GT12-105F	312	266	150	98	60	42	25	18.5	16	12.5	10.5	9.2	5.3	4.6
	GT12-125F	390	332	187	122	75	52.5	31.2	23.1	20	15.6	13.1	11.5	6.6	5.7
	GT12-150F	468	399	225	147	90	63	37.5	27.7	24	18.7	15.7	13.8	7.9	6.9
	GT12-160F	482	411	232	152	93	65	38.7	28.5	24.7	19.3	16.2	14.2	8.1	7.1

Discharge data (Amperes,25°C)

		Discharge characteristics (Amperes,25°C)													
End Voltage	Battery Model	1Min	5Min	15Min	30Min	1h	2h	3h	5h	6h	8h	10h	12h	20h	24h
10.8v	GT12-50F	139	120	71	47.5	27.5	20	12	9	7.75	6	5.0	4.5	2.5	2.3
	GT12-75F	208	180	106	71.2	41.2	30	18	13.5	11.6	9	7.5	6.7	3.7	3.3
	GT12-100F	278	240	142	95	55	40	24	18	15.5	12	10.0	9	5.0	4.5
	GT12-105F	291	252	149	99	57	42	25	18.9	16.2	12.6	10.5	9.4	5.2	4.7
	GT12-125F	347	300	177	118.8	68.7	50	30	22.5	19.3	12	12.5	11.2	6.2	5.6
	GT12-150F	417	360	213	142.5	82.5	60	36	27	23.2	18	15.0	13.5	7.5	6.7
	GT12-160F	429	370	219	149.6	86.6	63	38	27.8	23.8	18.5	16.0	13.9	7.7	6.9

		Discharge characteristics (Amperes,25°C)													
End Voltage	Battery Model	1Min	5Min	15Min	30Min	1h	2h	3h	5h	6h	8h	10h	12h	20h	24h
10.98v	GT12-50F	127	111	68	46	26	19.2	11.7	8.8	7.6	5.8	4.8	4.3	2.4	2.1
	GT12-75F	191	167	102	69	39	28.8	17.5	13.3	11.4	8.7	7.3	6.5	3.6	3.2
	GT12-100F	255	223	136	92	52	38.5	23.4	17.7	15.2	11.7	9.7	8.7	4.8	4.3
	GT12-105F	267	234	142	96	54	40.4	24.5	18.5	15.9	12.2	10.2	9.1	5.1	4.5
	GT12-125F	319	279	170	115	65	48.1	29.2	22.1	19	14.6	12.1	10.8	6.0	5.4
	GT12-150F	383	335	204	138	78	57.7	35.1	26.6	22.8	17.5	14.6	13	7.2	6.2
	GT12-160F	394	345	210	142	80	59.4	36.1	27.9	23.4	18.1	15.2	13.4	7.4	6.4

		Discharge characteristics (Amperes,25°C)													
End Voltage	Battery Model	1Min	5Min	15Min	30Min	1h	2h	3h	5h	6h	8h	10h	12h	20h	24h
11.10v	GT12-50F	120	106	66.5	45	25	18.7	11.5	8.8	7.5	5.7	4.8	4.2	2.3	2.1
	GT12-75F	180	159	99.7	67.5	37.5	28.1	17.2	13.2	11.25	8.6	7.2	6.3	3.5	3.1
	GT12-100F	240	212	133	90	50	37.5	23	17.6	15	11.5	9.6	8.5	4.7	4.2
	GT12-105F	252	222	139	94	52	39.4	24.1	18.4	15.7	12.1	10	8.9	4.9	4.4
	GT12-125F	300	265	166.3	112.5	62.5	46.8	28.7	22	18.7	14.3	12	10.6	5.8	5.2
	GT12-150F	360	318	199.5	135	75	56.2	34.5	26.4	22.5	17.2	14.4	12.7	7.0	6.3
	GT12-160F	370	327	205.4	139	77	57.8	35.5	27.2	23.2	17.7	15.0	13.1	7.2	6.4

		Discharge characteristics (Amperes,25°C)													
End Voltage	Battery Model	1Min	5Min	15Min	30Min	1h	2h	3h	5h	6h	8h	10h	12h	20h	24h
11.40v	GT12-50F	100	149	61	43	22.5	17.5	11	7.2	5.9	5.4	4.3	3.9	2.2	1.9
	GT12-75F	150	136	91.5	64.5	33.7	26.2	16.5	10.8	8.8	8.1	6.4	5.8	3.3	2.9
	GT12-100F	200	182	122	86	45	35	22	14.5	11.8	10.8	8.6	7.8	4.4	3.9
	GT12-105F	210	191	128	90	47.2	36.7	23.1	15.2	12.4	11.3	9.0	8.2	4.6	4.1
	GT12-125F	250	227	152.5	107.5	56.2	43.7	27.5	18.1	14.7	13.5	10.7	9.7	5.5	4.8
	GT12-150F	300	273	183	129	67.5	52.5	33	21.7	17.7	16.2	12.9	11.7	6.6	5.8
	GT12-160F	309	281	188	132	69.5	54.1	33.9	22.3	18.2	16.7	13.3	12.0	6.8	5.9

Discharge data (Watts,25°C)

		Discharge characteristics (Watts,25°C)													
End Voltage	Battery Model	1Min	5Min	15Min	30Min	1h	2h	3h	5h	6h	8h	10h	12h	20h	24h
9.60v	GT12-50F	1857	1680	840	528	331.5	223	138.5	102.5	94.5	71	59.5	49	30.7	27
	GT12-75F	2786	2520	1260	792	497.2	334.5	207.7	153.7	141.7	106.5	89.25	73.5	46.1	40.5
	GT12-100F	3715	3360	1680	1056	663	446	277	205	189	142	119	98	61.5	54
	GT12-105F	3900	3528	1764	1108	696	468	290	215	198.5	149	125	103	64.6	56.7
	GT12-125F	4643	4200	2100	1320	828.7	557.5	346.2	256.2	236.2	177.5	148.7	122.5	76.8	67.5
	GT12-150F	5572	5040	2520	1584	994.5	669	415.5	307.5	283.5	213	178.5	147	92.2	81
	GT12-160F	5767	5216	2608	1639	1029	692	430	318	293.4	220	184.7	152	95.4	83.8

		Discharge characteristics (Watts,25°C)													
End Voltage	Battery Model	1Min	5Min	15Min	30Min	1h	2h	3h	5h	6h	8h	10h	12h	20h	24h
9.90v	GT12-50F	1836	1594	829	519.5	327	212.5	136	101	90.5	69	57.5	52.4	29.5	27
	GT12-75F	2754	2391	1243	779.2	490.5	318.7	204	151.5	135.7	103.5	86.2	78.6	44.2	40.5
	GT12-100F	3673	3188	1658	1039	654	425	272	202	181	138	115	104.9	59	54
	GT12-105F	3856	3347	1741	1091	686.7	446	285	212	190	145	120.7	110	62.9	56.7
	GT12-125F	4591	3985	2072	1298	817.5	531	340	252.5	226.2	172.5	143.7	131.1	73.7	67.5
	GT12-150F	5509	4782	2487	1558	981	637.5	408	303	271.5	207	172.5	157.3	88.5	81
	GT12-160F	5702	4949	2569	1609	1014	658.5	422	313	280.5	214	178.2	162.5	91.5	83.5

		Discharge characteristics (Watts,25°C)													
End Voltage	Battery Model	1Min	5Min	15Min	30Min	1h	2h	3h	5h	6h	8h	10h	12h	20h	24h
10.20v	GT12-50F	1815	1525	826	515	322.5	207.5	134.5	100	91	67.5	57	52.4	29	27
	GT12-75F	2723	2287	1239	772.5	483.7	311	201.7	150	136.5	101.2	85.5	78.6	43.5	40.5
	GT12-100F	3631	3050	1652	1030	645	415	269	200	182	135	114	10.8	58	54
	GT12-105F	3813	3203	1735	1081	677	436	282.5	210	191	141.7	119.7	11.3	60.9	56.7
	GT12-125F	4538	3812	2065	1287	806.2	518.7	336.2	250	227.5	168.7	142.5	131.1	72.5	67.5
	GT12-150F	5446	4575	2478	1545	967.5	622	403.5	300	273	202.5	171	157.3	87	81
	GT12-160F	5625	4726	2560	1596	999.5	642.5	416.8	310	282	209.2	176.6	162.5	89.9	83.6

		Discharge characteristics (Watts,25°C)													
End Voltage	Battery Model	1Min	5Min	15Min	30Min	1h	2h	3h	5h	6h	8h	10h	12h	20h	24h
10.50v	GT12-50F	1666	1420	801	513.7	320	205	133.5	98.5	87.85	66.5	56	52	28	27
	GT12-75F	2499	2130	1201	770.6	480	307.5	200.2	147.7	131.7	99.75	84	78	42	40.5
	GT12-100F	3332	2840	1602	1027	640	410	267	197	175.7	133	112	104	56	54
	GT12-105F	3499	2982	1682	1078	672	430.5	280	207	184.5	139.6	117.6	109	58.8	56.7
	GT12-125F	4165	3550	2002	1284	800	512.5	333.7	246.2	219.6	166.2	140	130	70	67.5
	GT12-150F	4998	4260	2403	1541	960	615	400.5	295.5	263.5	199.5	168	156	84	81
	GT12-160F	5163	4400	2482	1592	992	635	413.7	305.2	272.2	206.1	173	161	86.7	83.5



Discharge data (Watts,25°C)

End Voltage	Battery Model	Discharge characteristics (Watts,25°C)													
		1Min	5Min	15Min	30Min	1h	2h	3h	5h	6h	8h	10h	12h	20h	24h
10.8v	GT12-50F	1501	1296	766.5	513	297	202	129.5	97.5	86	65	54	48.9	27	26.8
	GT12-75F	2251	1944	1149	769.5	445.5	303.7	194.2	145.5	129	97.5	81	75.35	40.5	40.2
	GT12-100F	3002	2592	1533	1026	594	405	259	194	172	130	108	97.8	54	53.6
	GT12-105F	3152	2721	1610	1077	624	425	272	203.7	180.5	136.5	113	102.7	56.7	56.3
	GT12-125F	3752	3240	1916	1282	742.5	506	323.7	242.5	215	162.5	135	122.2	67.5	67
	GT12-150F	4503	3888	2299	1539	891	607	388.5	291	258	195	162	146.7	81	80.4
	GT12-160F	4652	4016	2375	1590	952	627	401.3	300	266	201	167	151.5	83.6	83

End Voltage	Battery Model	Discharge characteristics (Watts,25°C)													
		1Min	5Min	15Min	30Min	1h	2h	3h	5h	6h	8h	10h	12h	20h	24h
10.98v	GT12-50F	1398	1222	749	505	285	195	128	97	84.4	64	53.2	47.9	26.4	26
	GT12-75F	2097	1833	1123	757.5	427.5	292.5	192	151.5	126.6	96	79.8	71.8	39.6	39
	GT12-100F	2797	2444	1498	1010	570	390	256	202	168.8	128	106.5	95.8	52.8	52
	GT12-105F	2937	2525	1573	1060	598	409	269	212	177.2	134	111.8	100	55.4	54.6
	GT12-125F	3496	3055	1872	1262	712.5	487.7	320	252.5	211	160	133.1	119.7	66	65
	GT12-150F	4195	3666	2247	1515	855	585	384	303	253.2	192	159.7	143.7	79.2	78
	GT12-160F	4333	3787	2321	1565	883	604	396	313	261.5	198	164.9	148.4	81.8	80.5

End Voltage	Battery Model	Discharge characteristics (Watts,25°C)													
		1Min	5Min	15Min	30Min	1h	2h	3h	5h	6h	8h	10h	12h	20h	24h
11.10v	GT12-50F	1332	1176	738	499.5	277.5	190	127.5	96.5	85.5	63.5	53	47	26	25.7
	GT12-75F	1998	1764	1107	749.5	416.2	285	191.2	144.7	128.2	95.3	79.5	70.5	39	38.6
	GT12-100F	2664	2353	1476	999	555	380	255	193	171	127	106	94	52	51.5
	GT12-105F	2797	2470	1550	1049	582.7	399	267.7	202.6	179.5	133	111	98.7	54.6	54.1
	GT12-125F	3330	2941	1845	1248	693.7	475	318.7	241.2	213.7	158.7	132.5	117.5	65	64.3
	GT12-150F	3996	3529	2214	1498	832.5	570	382.5	289.5	256.5	190.5	159	141	78	77.2
	GT12-160F	4128	3645	2287	1547	860	588.8	395.1	299.1	265	196.8	164.2	145.6	80.5	79.7

End Voltage	Battery Model	Discharge characteristics (Watts,25°C)													
		1Min	5Min	15Min	30Min	1h	2h	3h	5h	6h	8h	10h	12h	20h	24h
11.40v	GT12-50F	1140	1037	695	490	256.5	175	125	95.5	84.4	61.5	49	45.2	25	24.7
	GT12-75F	1710	1556	1042	735	384.7	262	187.5	143.2	126.6	92.2	73.5	67.8	37.5	37.1
	GT12-100F	2280	2075	1390	980	513	350	250	191	168.8	123	98	90.4	50	49.5
	GT12-105F	2394	2178	1460	1029	538.5	367	262	200	177	129	102	94.5	52	51
	GT12-125F	2850	2593	1737	1225	641.2	437	312.5	238.7	211	153.7	122.5	113	62.5	61.8
	GT12-150F	3420	3112	2085	1470	769.5	525	375	286.5	253.2	184.5	147	135.6	75	74.2
	GT12-160F	3533	3215	2154	1518	795	542	387	295	261.5	190	151	139.5	77	76.2