

## Product information

The new **Gaston GTS** 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 GTS** 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.

## Standby Stationary GTS Range

### Features

- Space minimizing: the GASTON GTS series requires less space than conventional vertical VRLA batteries. Actual space requirements will vary according to battery capacity, voltage, and installation layout.
- Easy maintenance: the cell terminals are arrayed conveniently on the front cover panel for easy maintenance.
- Vibration resistance: the modular unit structure of the GASTON GTS series eliminates dislodging or slippage which may be caused by vibration.
- Long life: lead alloy with strong corrosion resistance and optimized grid design provide for extended battery shelf life without increasing its overall weight. The GASTON GTS series has an expected life of 15 years in a controlled environment.
- Easy installation: standard 24V and 48V configurations for telecommunications industry. Other configurations are available.

### Applications

- Telecommunication systems
- Electric power equipment operation
- Fire alarm and security systems
- Emergency lighting
- UPS
- Solar battery systems
- Back up power for testing and measuring instruments
- Replacement for open type stationary lead acid batteries



## 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  
 15 years life expectancy in an average annual operating temperature of 25°C (77°F) or less

## 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

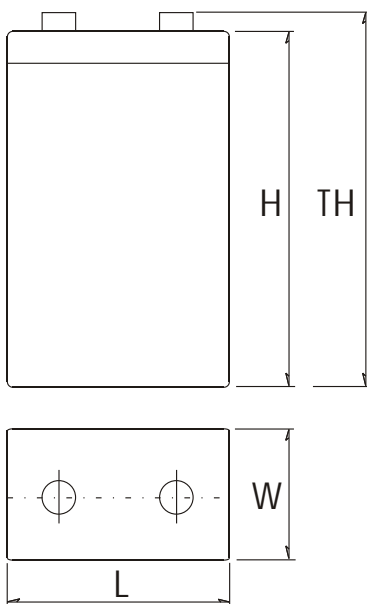
No water addition

## 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)				Approx Weight (kg)
		C <sub>10</sub> to 1.80Vpc	C <sub>3</sub> to 1.80Vpc	Length	Width	High	Total Height	
GT S-200	2	200	150	105 (4.14)	183 (7.21)	359 (14.2)	371 (14.6)	16
GT S-300	2	300	225	146 (5.75)	183 (7.21)	359 (14.2)	371 (14.6)	23
GT S-400	2	400	300	186 (7.33)	183 (7.21)	359 (14.2)	371 (14.6)	29
GT S-500	2	500	375	227 (8.95)	183 (7.21)	359 (14.2)	371 (14.6)	37
GT S-600	2	600	450	268 (10.6)	183 (7.21)	359 (14.2)	371 (14.6)	44
GT S-800	2	800	600	169 (6.66)	229 (9.02)	600 (23.6)	612 (24.1)	62
GT S-1000	2	1000	750	204 (8.04)	229 (9.02)	600 (23.6)	612 (24.1)	76
GT S-1500	2	1500	1125	291 (11.5)	229 (9.02)	600 (23.6)	612 (24.1)	111
GT S-2000	2	2000	1500	382 (15.1)	233 (9.18)	602 (23.7)	612 (24.1)	111



24V modular

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## Discharge data (Amperes,25°C)

Battery Model	End Voltage per cell	Discharge characteristics (Amperes,25°C)									
		5Min	15Min	30Min	1h	3h	5h	8h	10h	12h	24h
GTS-200	1.75	314	248	190	120	56.0	36.1	25.8	22.4	16.9	9.8
	1.80	282	228	176	114	55.0	35.3	25.3	22.0	16.7	9.6
	1.83	273	212	160	110	54.0	34.4	24.9	21.7	16.5	9.3
	1.88	255	195	146	104	51.0	32.7	23.7	21.0	16.0	9.0
	1.90	216	172	160	96.0	49.0	31.0	22.5	20.0	15.5	8.6
	1.94	196	143	112	82.0	45.0	29.2	21.0	17.5	15.1	7.6

Battery Model	End Voltage per cell	Discharge characteristics (Amperes,25°C)									
		5Min	15Min	30Min	1h	3h	5h	8h	10h	12h	24h
GTS-300	1.75	471	372	285	180	84.0	54.2	38.7	33.5	25.3	14.8
	1.80	423	342	264	171	82.5	52.9	37.9	33.0	25.0	14.5
	1.83	409	318	240	165	81.0	51.6	37.4	32.5	24.8	13.9
	1.88	383	295	219	156	76.5	49.0	35.6	31.5	24.0	13.5
	1.90	324	258	195	144	73.5	46.4	33.8	29.9	23.2	12.9
	1.94	294	215	168	123	67.5	43.9	31.5	26.3	22.7	11.4

Battery Model	End Voltage per cell	Discharge characteristics (Amperes,25°C)									
		5Min	15Min	30Min	1h	3h	5h	8h	10h	12h	24h
GTS-400	1.75	628	496	380	240	112	72.2	51.6	44.7	33.7	19.7
	1.80	564	456	352	228	110	70.5	50.6	44.0	33.4	19.3
	1.83	546	424	320	220	108	68.8	49.9	43.3	33.0	18.5
	1.88	510	390	292	208	102	65.4	47.5	42.0	32.0	18.0
	1.90	432	344	260	192	98.0	61.9	45.1	39.9	31.0	17.2
	1.94	392	286	224	164	90.0	58.5	42.0	35.1	30.3	15.2

Battery Model	End Voltage per cell	Discharge characteristics (Amperes,25°C)									
		5Min	15Min	30Min	1h	3h	5h	8h	10h	12h	24h
GTS-500	1.75	785	620	475	300	140	90.3	64.5	55.9	42.1	24.6
	1.80	705	570	440	285	138	88.2	63.2	55.0	41.7	24.1
	1.83	683	530	400	275	135	86.0	62.4	54.2	41.3	23.1
	1.88	638	488	365	260	128	81.7	59.3	52.5	40.0	22.5
	1.90	540	430	325	240	123	77.4	56.3	49.9	38.7	21.5
	1.94	490	358	280	205	113	73.1	52.5	43.9	37.8	19.0

## Discharge data (Amperes, 25°C)

Battery Model	End Voltage per cell	Discharge characteristics (Amperes, 25°C)									
		5Min	15Min	30Min	1h	3h	5h	8h	10h	12h	24h
GTS-600	1.75	942	744	570	360	231	108	77.4	67.1	50.6	29.5
	1.80	846	684	528	342	222	106	75.9	66.0	50.1	28.9
	1.83	819	636	480	330	217	103	74.8	65.0	49.5	27.8
	1.88	765	585	438	312	201	98.0	71.2	63.0	48.0	27.0
	1.90	648	516	390	288	189	92.9	67.6	59.9	46.4	25.8
	1.94	588	429	336	246	165	87.7	63.0	52.6	45.4	22.8

Battery Model	End Voltage per cell	Discharge characteristics (Amperes, 25°C)									
		5Min	15Min	30Min	1h	3h	5h	8h	10h	12h	24h
GTS-800	1.75	1420	1190	890	563	270	183	128	106	91.8	48.9
	1.80	1400	1050	732	533	265	179	126	105	90.7	47.9
	1.83	1300	970	678	509	260	175	124	104	89.7	47.9
	1.88	1140	860	586	446	230	157	115	96.0	83.6	44.8
	1.90	1080	820	550	407	216	149	110	92.0	80.5	42.8
	1.94	990	770	440	340	185	129	95	80.0	71.4	37.7

Battery Model	End Voltage per cell	Discharge characteristics (Amperes, 25°C)									
		5Min	15Min	30Min	1h	3h	5h	8h	10h	12h	24h
GTS-1500	1.75	2130	1785	1335	845	405	274	191	159	138	73.4
	1.80	2100	1575	1098	800	398	268	189	158	136	71.9
	1.83	1950	1455	1017	764	390	263	186	156	135	71.9
	1.88	1710	1290	879	669	345	236	173	144	125	67.3
	1.90	1620	1230	825	611	324	223	165	138	121	64.2
	1.94	1485	1155	660	510	278	193	143	120	107	56.6

Battery Model	End Voltage per cell	Discharge characteristics (Amperes, 25°C)									
		5Min	15Min	30Min	1h	3h	5h	8h	10h	12h	24h
GTS-2000	1.75	2840	2380	1780	1126	540	365	256	212	184	97.9
	1.80	2800	2100	1464	1066	530	357	252	210	182	95.8
	1.83	2600	1940	1356	1018	520	350	248	208	179	95.8
	1.88	2280	1720	1172	892	460	314	230	192	167	89.7
	1.90	2160	1640	1100	814	432	298	220	184	161	85.6
	1.94	1980	1540	880	680	370	257	190	160	143	75.5

## GASTON GTS modular systems(24 Volts)

System Reference Number	Reserve Time				Nominal AH Rating 25°C(77°F)	GASTON Battery Type	Number Of Levels	Overall System Weight (Lb)	System Dimensions(In.)*		
	1 HR 1.8VPC	2 HR 1.8VPC	5 HR 1.8VPC	8 HR 1.8VPC					L	W	H
24V GTS-200-2	110	66	34	24	200	12 x GTS200	2	582	36.5	14.5	24.5
24V GTS-200-3	110	66	34	24	200	12 x GTS200	3	582	25.0	14.5	34.5
24V GTS-200-4	110	66	34	24	200	12 x GTS200	4	582	19.5	14.5	44.8
24V GTS-300-2	165	98	50	30	300	12 x GTS300	2	790	46.0	14.5	24.5
24V GTS-300-3	165	98	50	30	300	12 x GTS300	3	790	31.5	14.5	34.5
24V GTS-300-4	165	98	50	30	300	12 x GTS300	4	790	24.3	14.5	44.8
24V GTS-400-2	220	132	68	48	400	12 x GTS400	2	986	57.8	14.5	24.5
24V GTS-400-3	220	132	68	48	400	12 x GTS400	3	986	37.8	14.5	34.5
24V GTS-400-4	220	132	68	48	400	12 x GTS400	4	986	29.0	14.5	44.8
24V GTS-500-2	275	164	84	60	500	12 x GTS500	2	1220	67.8	14.5	24.5
24V GTS-500-3	275	164	84	60	500	12 x GTS500	3	1220	41.8	14.5	34.5
24V GTS-500-4	275	164	84	60	500	12 x GTS500	4	1220	34.0	14.5	44.8
24V GTS-600-2	330	196	100	72	600	12 x GTS600	2	1422	77.5	14.5	24.5
24V GTS-600-3	330	196	100	72	600	12 x GTS600	3	1422	50.8	14.5	34.5
24V GTS-600-4	330	196	100	72	600	12 x GTS600	4	1422	38.8	14.5	44.8
24V GTS-800-2	440	264	136	96	800	12 x GTS800	2	1968	54.3	24.0	28.0
24V GTS-800-3	440	264	136	96	800	12 x GTS800	3	1968	35.5	24.0	40.0
24V GTS-800-4	440	264	136	96	800	12 x GTS800	4	1968	27.0	24.0	52.0
24V GTS-1000-2	550	328	168	120	1000	12 x GTS1000	2	2292	62.5	24.0	28.0
24V GTS-1000-3	550	328	168	120	1000	12 x GTS1000	3	2292	41.0	24.0	40.0
24V GTS-1000-4	550	328	168	120	1000	12 x GTS1000	4	2292	31.3	24.0	52.0
24V GTS-1500-2	825	492	252	180	1500	12 x GTS1500	2	3265	86.3	24.0	28.0
24V GTS-1500-3	825	492	252	180	1500	12 x GTS1500	3	3265	57.5	24.0	40.0
24V GTS-1500-4	825	492	252	180	1500	12 x GTS1500	6	3265	28.8	24.0	76.0
24V GTS-2000-2	1100	656	336	240	2000	12 x GTS2000	2	4417	107.5	24.0	28.0
24V GTS-2000-3	1100	656	336	240	2000	12 x GTS2000	3	4417	71.5	24.0	40.0
24V GTS-2000-4	1100	656	336	240	2000	12 x GTS2000	6	4417	36.0	24.0	76.0

SEPCIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

\*System dimensions do not include terminal

## GASTON GTS modular systems(48 Volts)

System Reference Number	Reserve Time				Nominal AH Rating 25°C(77°F)	GASTON Battery Type	Number Of Levels	Overall System Weight (Lb)	System Dimensions(In.)*		
	1 HR 1.8VPC	2 HR 1.8VPC	5 HR 1.8VPC	8 HR 1.8VPC					L	W	H
48V GTS-200-2	110	66	34	24	200	24 x GTS200	2	1160	73.3	14.5	24.5
48V GTS-200-3	110	66	34	24	200	24x GTS200	3	1160	50.5	14.5	34.5
48V GTS-200-4	110	66	34	24	200	24x GTS200	4	1160	39.0	14.5	44.5
48V GTS-200-6	110	66	34	24	200	24x GTS200	6	1160	25.0	14.5	65.3
48V GTS-300-2	165	98	50	30	300	24 x GTS300	2	1570	92.0	14.5	24.5
48V GTS-300-3	165	98	50	30	300	24 x GTS300	3	1570	63.0	14.5	34.5
48V GTS-300-4	165	98	50	30	300	24 x GTS300	4	1570	48.5	14.5	44.5
48V GTS-300-6	165	98	50	30	300	24 x GTS300	6	1570	31.5	14.5	65.3
48V GTS-400-2	226	138	70	50	400	24 x GTS400	2	1960	115.8	14.5	24.5
48V GTS-400-3	226	138	70	50	400	24 x GTS400	3	1960	75.5	14.5	34.5
48V GTS-400-4	226	138	70	50	400	24 x GTS400	4	1960	58.0	14.5	44.5
48V GTS-400-6	226	138	70	50	400	24 x GTS400	6	1960	37.8	14.5	65.3
48V GTS-500-2	283	173	88	62	500	24 x GTS500	2	2426	135.5	14.5	24.5
48V GTS-500-3	283	173	88	62	500	24 x GTS500	3	2426	83.5	14.5	34.5
48V GTS-500-4	283	173	88	62	500	24 x GTS500	4	2426	68.0	14.5	44.5
48V GTS-500-6	283	173	88	62	500	24 x GTS500	6	2426	41.8	14.5	65.3
48V GTS-600-2	340	208	106	74	600	24 x GTS600	2	2830	155.0	14.5	24.5
48V GTS-600-3	340	208	106	74	600	24 x GTS600	3	2830	101.8	14.5	34.5
48V GTS-600-4	340	208	106	74	600	24 x GTS600	4	2830	77.5	14.5	44.5
48V GTS-600-6	340	208	106	74	600	24 x GTS600	6	2830	50.8	14.5	65.3
48V GTS-800-2	452	276	140	100	800	24 x GTS800	2	3888	108.5	24.0	28.0
48V GTS-800-3	452	276	140	100	800	24 x GTS800	3	3888	71.0	24.0	40.0
48V GTS-800-4	452	276	140	100	800	24 x GTS800	4	3888	54.0	24.0	52.0
48V GTS-800-6	452	276	140	100	800	24 x GTS800	6	3888	35.5	24.0	76.0
48V GTS-1000-2	566	346	176	124	1000	24 x GTS1000	2	4688	125.0	24.0	28.0
48V GTS-1000-3	566	346	176	124	1000	24 x GTS1000	3	4688	82.0	24.0	40.0
48V GTS-1000-4	566	346	176	124	1000	24 x GTS1000	4	4688	62.0	24.0	52.0
48V GTS-1000-6	566	346	176	124	1000	24 x GTS1000	6	4688	41.0	24.0	76.0
48V GTS-1500-2	849	519	264	186	1500	24 x GTS1500	2	6733	172.0	24.0	28.0
48V GTS-1500-3	849	519	264	186	1500	24 x GTS1500	3	6733	115.0	24.0	40.0
48V GTS-1500-4	849	519	264	186	1500	24 x GTS1500	4	6733	86.0	24.0	52.0
48V GTS-2000-2	1100	656	336	240	2000	24 x GTS2000	2	9006	215.0	24.0	28.0
48V GTS-2000-3	1100	656	336	240	2000	24 x GTS2000	3	9006	143.0	24.0	40.0
48V GTS-2000-4	1100	656	336	240	2000	24 x GTS2000	4	9006	107.5	24.0	52.0
48V GTS-2000-6	1100	656	336	240	2000	24 x GTS2000	6	9006	72.0	24.0	76.0

SEPCIFICATIONS SUBJECT TO CHARGE WITHOUT NOTICE

\*System dimensions do not include terminal

