



FG20291

12Volt 2.9Ah

Specifications

Nominal Voltage(V) **12V**

Nominal Capacity

20 hour rate	(0.145A to 10.50V)	2.9Ah
10 hour rate	(0.276A to 10.50V)	2.755Ah
5 hour rate	(0.493A to 10.20V)	2.465Ah
1 C	(2.9A to 9.60V)	1.643Ah
3 C	(8.7A to 9.60V)	1.16Ah

Weight **Approx. 1.24kg(2.73Lbs.)**

Internal Resistance (at 1KHz) **Approx. 30 mΩ**

Maximum Discharge Current for

5 seconds: **43.5A**

Charging Methods at 25 (77)

Cycle use:

Charging Voltage **14.4 to 15.0V**

Coefficient -5.0mv/ /cell

Maximum Charging Current : **0.87A**

Standby use:

Float Charging Voltage **13.50 to 13.80V**

Coefficient -3.0mv/ /cell

Operating Temperature Range

Charge **-15 (5) to 40 (104)**

Discharge **-15 (5) to 50 (122)**

Storage **-15 (5) to 40 (104)**

Charge Retention (shelf life) at 20 (68)

1 month **92%**

3 month **90%**

6 month **80%**

Case Material **ABS**

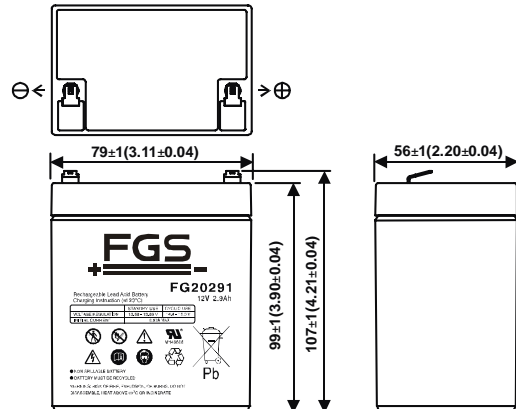
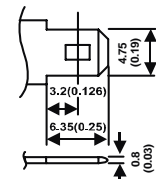
(UL94 HB flame retardant)

Terminal **F1(Faston Tab 187)**

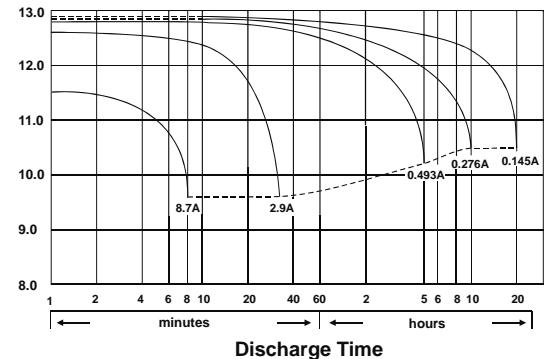


Dimensions

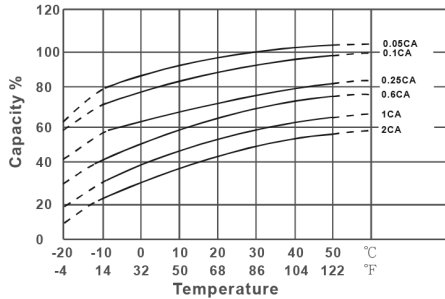
mm(inch)



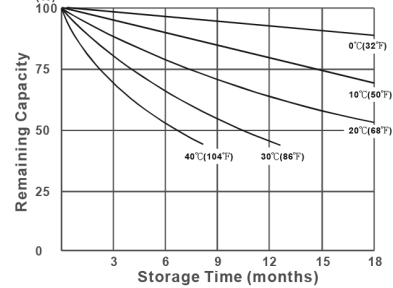
(v) FOR 12V BATTERY Discharge Time VS. Discharge Current (25)



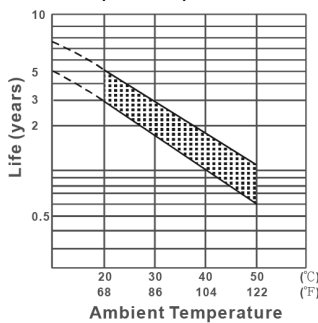
Effect of Temperature on Capacity 25°C(77°F)



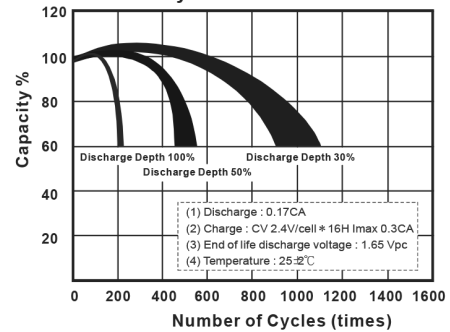
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 25°C(77°F)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time	min	87.8	100	109	115	117	120	124
5	min	65.9	75.3	79.5	82.7	83.9	85.3	87.5
10	min	51.2	57.6	59.9	61.4	62.0	62.7	63.6
15	min	30.4	32.7	33.8	34.7	35.0	35.4	35.9
30	min	18.8	19.9	20.8	21.5	21.7	22.0	22.3
60	min	11.2	12.0	12.4	12.7	12.9	13.0	13.2
120	min	8.16	8.93	9.14	9.29	9.35	9.42	9.51
180	min	6.51	7.09	7.26	7.39	7.44	7.50	7.58
240	min	5.39	5.86	6.05	6.22	6.29	6.35	6.41
300	min	3.12	3.34	3.43	3.50	3.52	3.55	3.58
600	min	1.71	1.78	1.82	1.85	1.86	1.87	1.88
1200	min							

- Discharge Rates in Amperes to Various End Voltages at 25°C(77°F)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time	min	11.0	11.3	11.5	11.7	11.9	12.0	12.3
5	min	6.47	7.16	7.39	7.58	7.65	7.74	7.86
10	min	5.04	5.30	5.42	5.53	5.57	5.62	5.68
15	min	2.87	3.02	3.09	3.15	3.17	3.20	3.24
30	min	1.67	1.78	1.83	1.86	1.87	1.89	1.91
60	min	0.921	0.984	1.018	1.049	1.062	1.079	1.102
120	min	0.647	0.701	0.726	0.748	0.757	0.767	0.782
180	min	0.521	0.559	0.582	0.601	0.607	0.615	0.623
240	min	0.474	0.493	0.506	0.515	0.519	0.524	0.529
300	min	0.268	0.277	0.283	0.288	0.289	0.291	0.293
600	min	0.142	0.146	0.149	0.151	0.152	0.153	0.154
1200	min							

All data on the spec. sheet is an average value:

The tolerance range : $X < 6\text{min}$ (+15%~-15%), $6\text{min} \leq X < 10\text{min}$ (+12%~-12%), $10\text{min} \leq X < 60\text{min}$ (+8%~-8%), $X \geq 60\text{min}$ (+5%~-5%)