GEL BATTERY 12V7AH

Specification

Nominal Voltage	12V	
Nominal Capacity(10HR)	7.0Ah	
Dimensions	Length	151±3mm (5.94 inches)
	Width	65±2mm (2.56inches)
	Container Height	101±3mm (3.98inches)
	Total Height (with Terminal)	101±3mm (3.98inches)
Approx Weight	Approx 1.85 kg	
Terminal	F2	
Container Material	ABS	
Rated Capacity	7.35AH/0.35A	(20hr,1.80V/cell,25°C/77°F)
	7.0AH/0.7A	(10hr,1.80V/cell,25°C/77°F)
	5.95AH/1.19A	(5hr,1.75V/cell,25°C/77°F)
	5.25AH/1.75A	(3hr,1.75V/cell,25°C/77°F)
	3.85AH/3.85A	(1hr,1.60V/cell,25°C/77°F)
Max. Discharge current	63A(5s)	
Internal Resistance	Approx 35 mΩ	
Operating Temp.Range	Discharge : -15~50°C(5~122°F)	
	Charge : ~40°C(32~104°F)	
	Storage : -15~40°C(5~104°F)	
Nominal Operating Temp. Range	25±3°C(77±5°F)	
Cycle Use	Initial Charging Current less than 2.1A.Voltage	
	14.4V~15.0V at 25°C(77°F)Temp.Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	13.5V~13.8V at 25°C(77°F)Temp.Coefficient -20mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	GEL series batteriy may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



Applications

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power Systerm(EPS)
- Emergency backup power supply
- Emergency light
- Railway signal
- Aircraft signal
- Alarm and security system
- Electronic apparatus and equipment
- Communication power supply
- DC power supply
- Auto control system

ISO9001 CE

Constant Current Discharge(Amperes) at 25° C(77° F)

20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h	V/cell
6.7	5.3	4.1	3.3	2.1	1.6	1.3	1.1	0.9	0.8	0.7	0.4	1.85
7.9	6.2	4.4	3.7	2.2	1.7	1.4	1.1	1.0	0.9	0.7	0.4	1.8
8.5	6.5	4.7	3.9	2.3	1.8	1.5	1.1	1.0	0.9	0.7	0.4	1.75
9.0	6.8	5.0	4.0	2.4	1.8	1.5	1.2	1.1	1.0	0.8	0.4	1.7
9.5	7.0	5.2	4.1	2.5	1.9	1.6	1.3	1.1	1.1	0.8	0.4	1.65
9.8	7.4	5.4	4.3	2.7	2.0	1.6	1.3	1.2	1.1	0.8	0.4	1.6

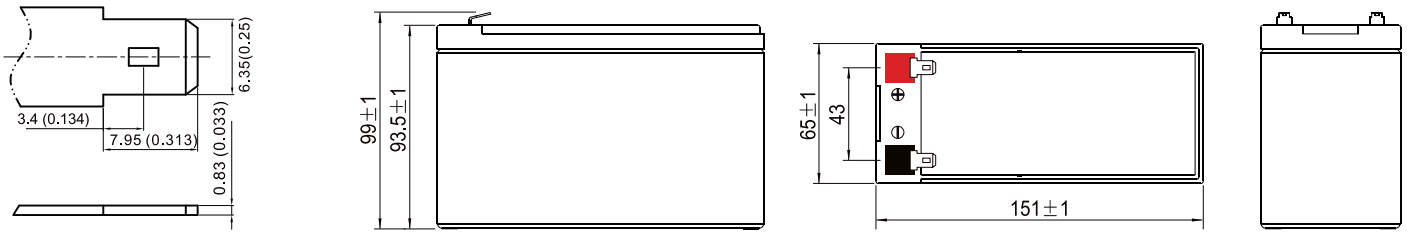
Constant Power Discharge (Watts/cell) 25° C(77° F)

20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h	V/cell
12.3	9.8	7.5	6.1	3.9	3.0	2.5	1.9	1.7	1.4	1.2	0.7	1.85
14.2	11.2	7.9	6.7	4.0	3.0	2.5	2.0	1.8	1.6	1.3	0.7	1.8
14.9	11.4	8.2	6.7	4.0	3.1	2.6	2.0	1.8	1.6	1.3	0.7	1.75
15.2	11.5	8.5	6.8	4.0	3.1	2.6	2.0	1.8	1.7	1.3	0.7	1.7
15.6	11.6	8.5	6.8	4.2	3.1	2.6	2.1	1.8	1.7	1.3	0.7	1.65
15.7	11.8	8.6	6.8	4.3	3.1	2.6	2.1	1.8	1.8	1.3	0.7	1.6

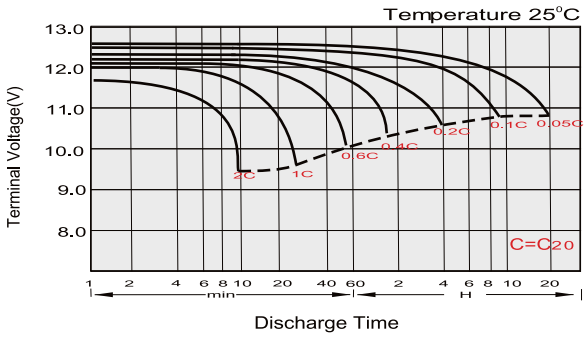
Dimensions

F2 Terminal

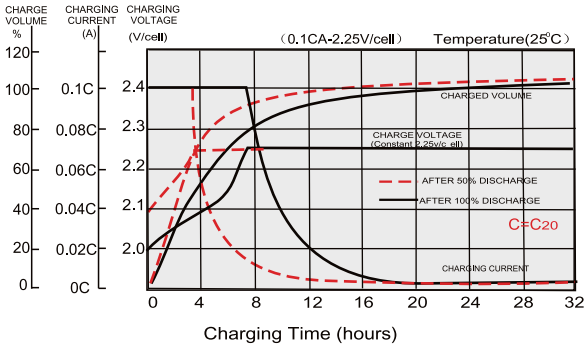
Unit: mm



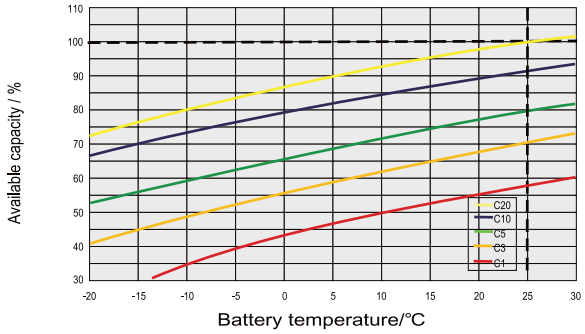
Discharge Characteristics



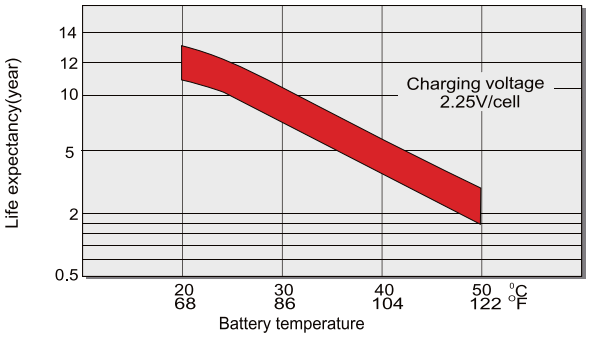
Float Charging Characteristics



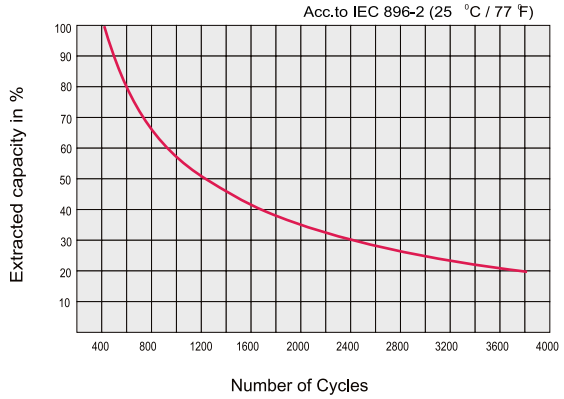
Temperature Effects i n Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics

