

# GP1000-2 2V1000AH

## GP SERIES-Telecom Battery



### Specification

Nominal Voltage	2V	
Nominal Capacity(10HR)	1000AH	
Dimension	Length	355±3mm (13.97 inches)
	Width	183±3mm (7.20 inches)
	Container Height	361±3mm (14.21 inches)
	Total Height (with Terminal)	364±3mm (14.33 inches)
Approx Weight	Approx 57.1 kg ( 125.73 lbs)	
Terminal	T11	
Container Material	ABS	

### Applications

- ◆ Tele-communication central station (wired or cellular)
- ◆ Power system communication, military communication, etc.
- ◆ Network communication including: data transmission, television signal transmission, etc.
- ◆ Uninterruptable Power System (UPS- for Telecom)

Rated Capacity	1020.0 AH/102.0A	(10hr, 1.80V/cell, 25°C/77°F)
	935.0 AH/187.0A	(5hr, 1.75V/cell, 25°C/77°F)
	765.0 AH/255.0A	(3hr, 1.75V/cell, 25°C/77°F)
	612.0 AH/612.0A	(1hr, 1.60V/cell, 25°C/77°F)

Max. Discharge Current	8000A (5s)	
Internal Resistance	Approx 0.45 mΩ	

Operating Temp. Range	Discharge : -15~50°C (5~122°F)	
	Charge : 0~40°C (32~104°F)	
	Storage : -15~40°C (5~104°F)	

Nominal Operating Temp. Range	25±3°C (77±5°F)	
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Cycle Use	Initial Charging Current less than 300.0 A. Voltage	
	2.4V~2.5 V at 25 °C(77 °F)Temp. Coefficient -5mV/°C	

Standby Use	No limit on Initial Charging Current Voltage	
	2.25V~2.3V at 25 °C(77 °F)Temp. Coefficient -3mV/°C	

Capacity affected by Temperature	40°C (104 °F)	103%
	25°C (77 °F)	100%
	0°C (32 °F)	86%

Self Discharge  
JYC GP series batteries 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.

ISO 9001	ISO 14001	OHSAS 18001	TLC
CE	RoHS		

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

End	15min	30min	45min	1h	2h	3h	4h	5h	10h
1.60V	1301	962	755	612	393.6	270.7	222.5	204.6	111.9
1.65V	1251	954	718	595	382.0	265.0	213.9	198.8	108.0
1.70V	1168	913	706	580	372.0	261.0	208.0	193.0	104.0
1.75V	1063	830	695	564	362.0	255.0	202.1	187.0	103.0
1.80V	913	766	644	541	347.0	249.6	196.4	179.5	102.0

### Constant Power Discharge (Watts) at 25 °C (77°F)

End	15min	30min	45min	1h	2h	3h	4h	5h	10h
1.60V	2201	1625	1332	1187	780.7	538.3	423.7	418.1	223.9
1.65V	2090	1558	1267	1119	734.5	534.6	407.4	392.2	222.0
1.70V	1995	1479	1218	1073	704.5	525.4	399.6	377.4	220.0
1.75V	1857	1422	1171	1029	675.0	519.8	388.1	360.8	217.0
1.80V	1668	1380	1137	993	659.0	514.3	373.2	342.2	216.0

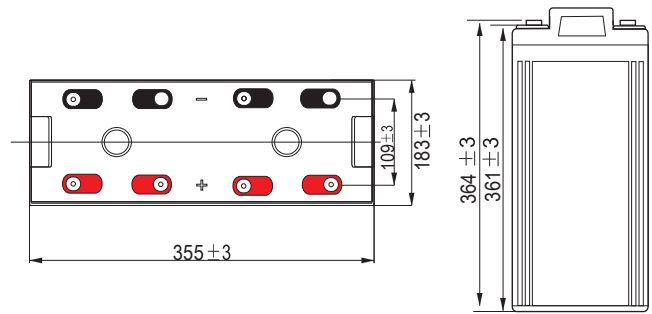
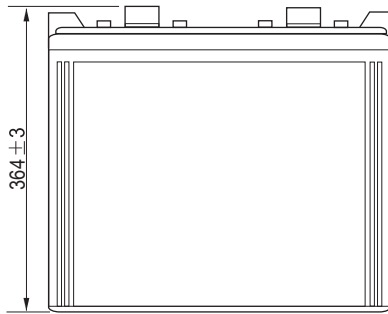
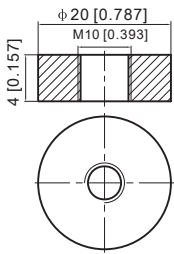
**Note** The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.

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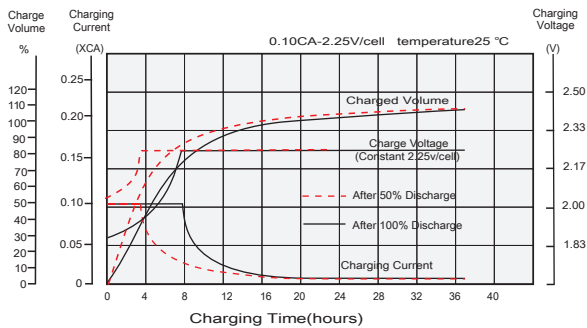
## GP SERIES-Telecom Battery

### Dimensions

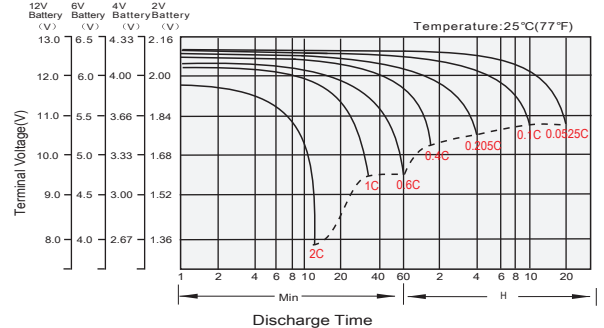
**T11 Terminal**  
Unit: mm [inches]



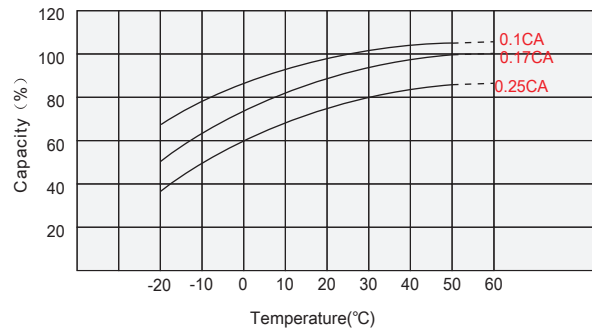
### Float Charging Characteristics



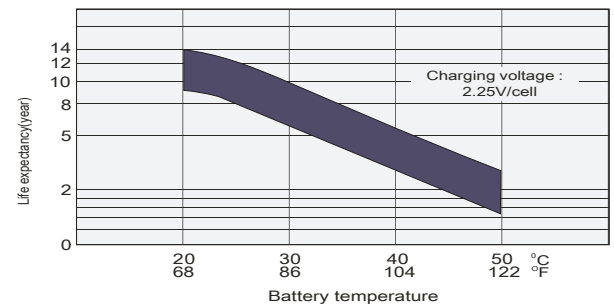
### Discharge Characteristics



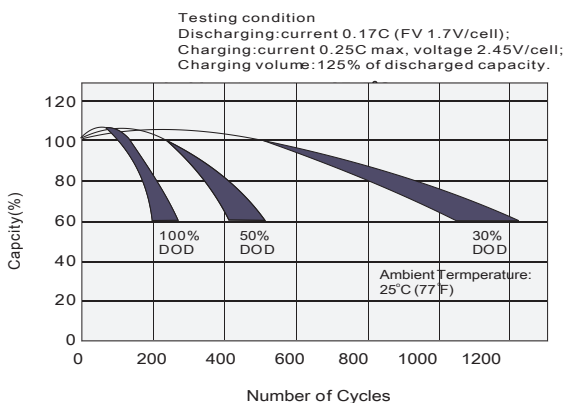
### Temperature Effects in Relation to Battery Capacity



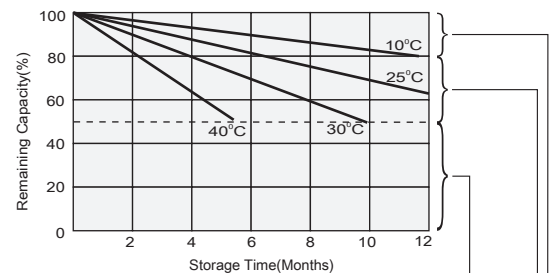
### Effect of Temperature on Long Term Float Life



### Cycle Life in Relation to Depth of Discharge



### Self Discharge Characteristics



Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this is reached.

Supplementary charge required before use. Optimal charging way as below:  
1. Charged for a above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.  
2. Charged for a above 20 hours at a limited current 0.25CA and constant voltage 2.45V/cell.  
3. Charged for 8-10 hours at limited current 0.05CA.

No supplementary charge required  
(Carry out supplementary charge before use if 100% capacity is required.)