



### SPECIFICATIONS

Cells Per Unit	6
Voltage Per Unit	12
Capacity	150Ah@10hr-rate to 1.80V per cell@25°C
Max. Discharge Current	1000A(5sec)
Internal Resistance	Approx. 2.6mΩ
Operating Temperature Range	Discharge: -40°C~50°C Charge: -20°C~50°C Storage: -20°C~50°C
Normal Operating Temperature Range	25°C±5°C
Float charging Voltage	13.50 to 13.80VDC/unit Average at 25°C
Max. Charging Current	37.5A
Equalization and Cycle service	14.70 to 15.00VDC/unit Average at 25°C
Self Discharge	The batteries can be stored for more than 6 months at 25°C. Please charge batteries before using. For high temperature, the time interval will be shorter.
Terminal	T14
Constainer Material	ABS(UL94-HB) Flam mability resistance of UL94-V0 is available on request.

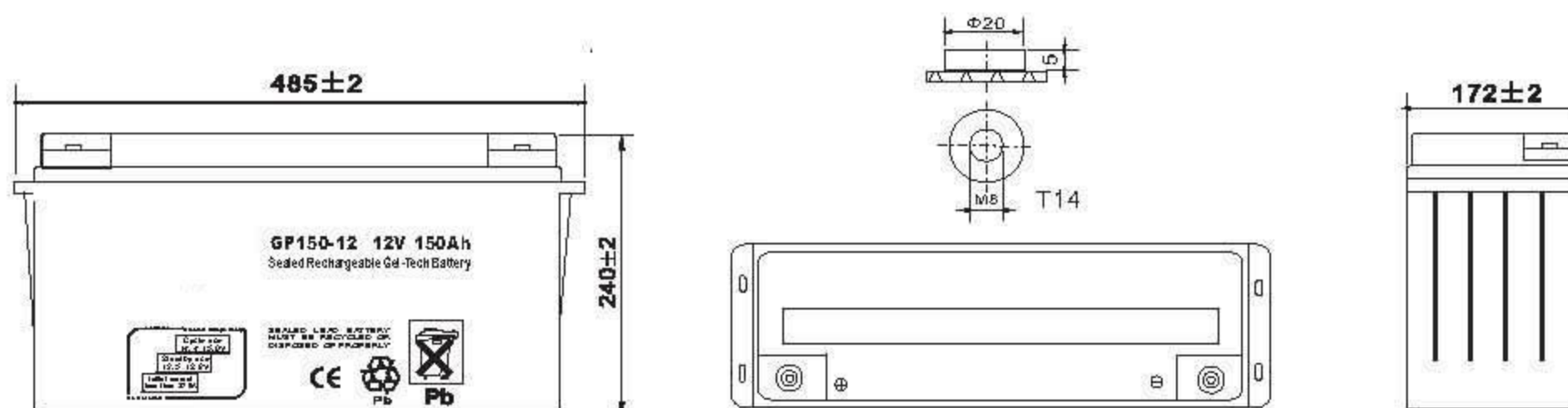
### APPLICATION

- Solar systems
- UPS systems
- IT systems
- Data centers
- Power generation plants and substations
- Telecommunication equipments



### DIMENSIONS

Unit: mm



### Constant Current Discharge Characteristics Unit:A(25°C,77°F)

F.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V/cell	445.3	337.3	243.4	147.0	107.6	84.4	41.7	25.9	15.5	7.92
1.65V/cell	427.2	305.5	238.1	144.4	106.4	83.6	41.5	25.7	15.4	7.88
1.70V/cell	387.7	294.9	234.7	143.4	105.2	82.9	41.4	25.6	15.2	7.80
1.75V/cell	350.2	271.5	228.1	142.2	101.8	82.5	41.3	25.5	15.0	7.70
1.80V/cell	318.4	252.2	211.6	133.8	100.8	78.4	38.3	24.4	13.1	7.13

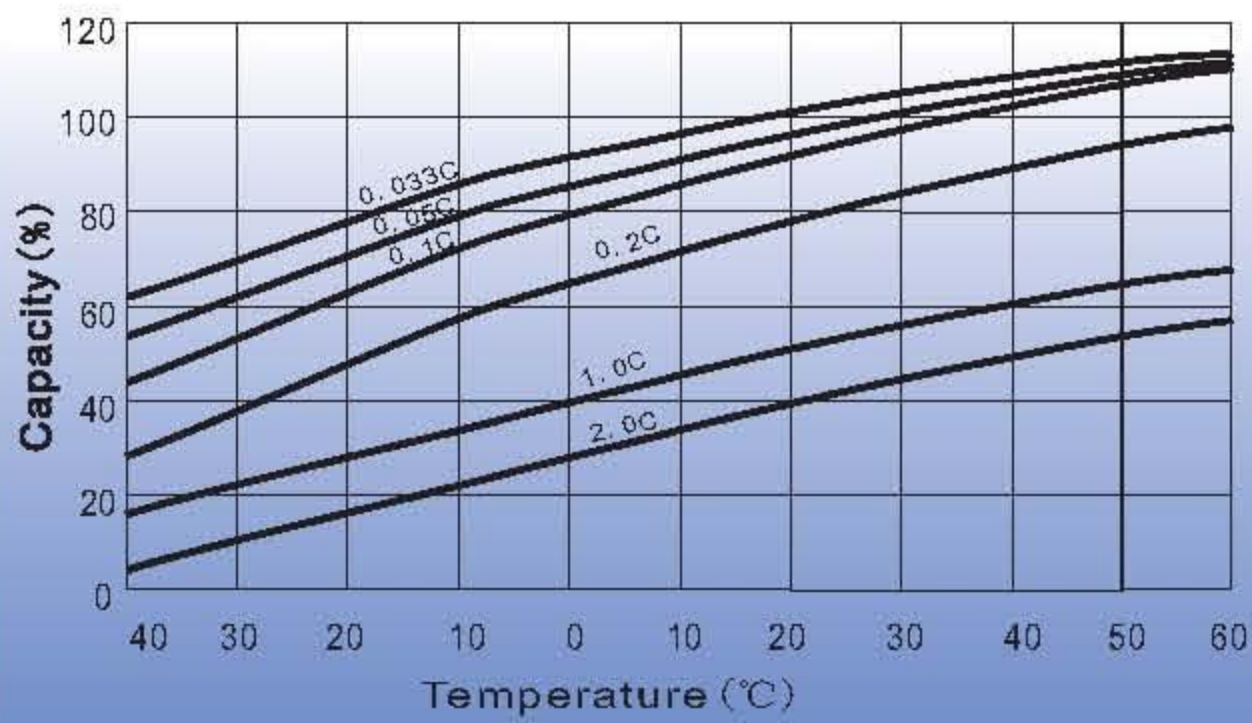
### Constant Power Discharge Characteristics Unit:W(25°C,77°F)

F.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	10h	20h
1.60V/cell	735.0	557.6	439.3	278.8	210.2	164.8	81.0	50.4	30.0	15.8
1.65V/cell	704.4	554.1	436.5	270.3	208.4	163.2	80.7	50.3	29.6	15.5
1.70V/cell	658.4	540.7	428.0	264.7	202.8	162.4	80.3	49.9	29.4	15.2
1.75V/cell	612.5	506.9	399.9	250.6	200.9	160.8	80.0	49.7	29.2	14.8
1.80V/cell	551.2	473.1	377.3	247.8	195.3	152.8	74.3	47.4	25.7	14.0

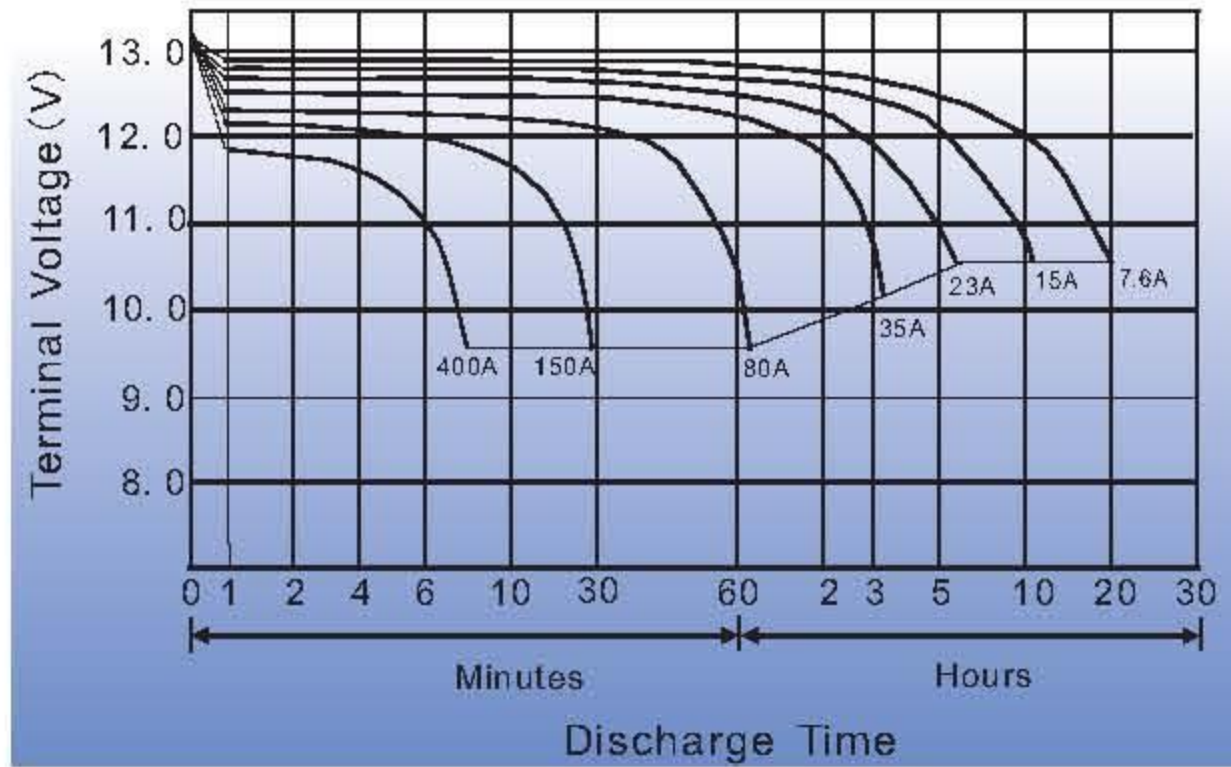
All mentioned values are average values.

# GP150-12 12V150Ah

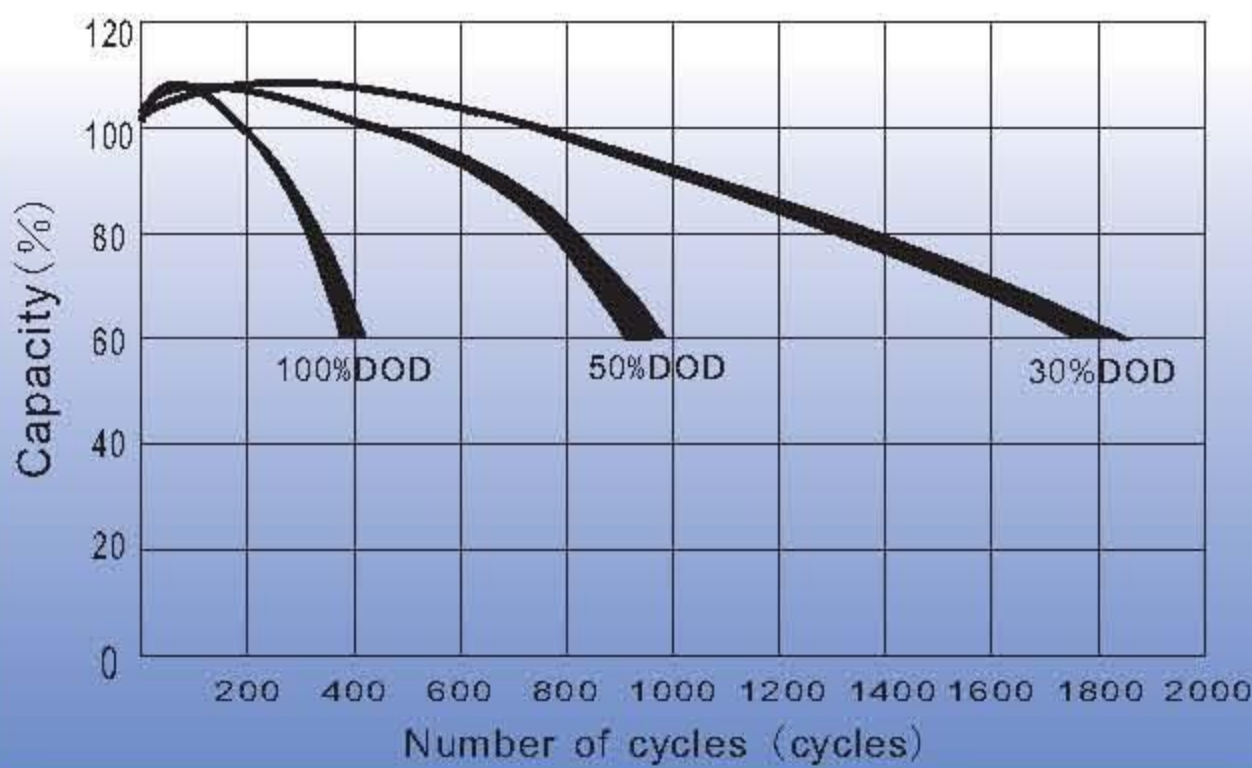
TEMPERATURE EFFECTS CURVE



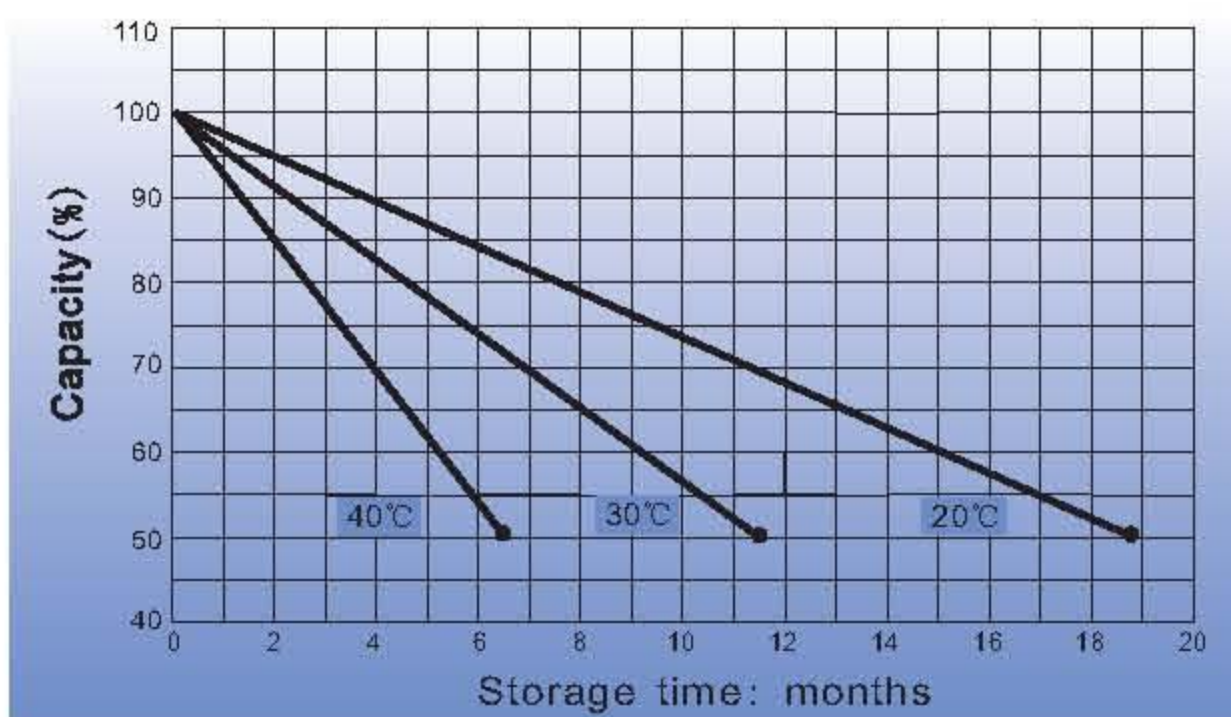
DISCHARGE TIME VS. DISCHARGE CURRENT (25°C)



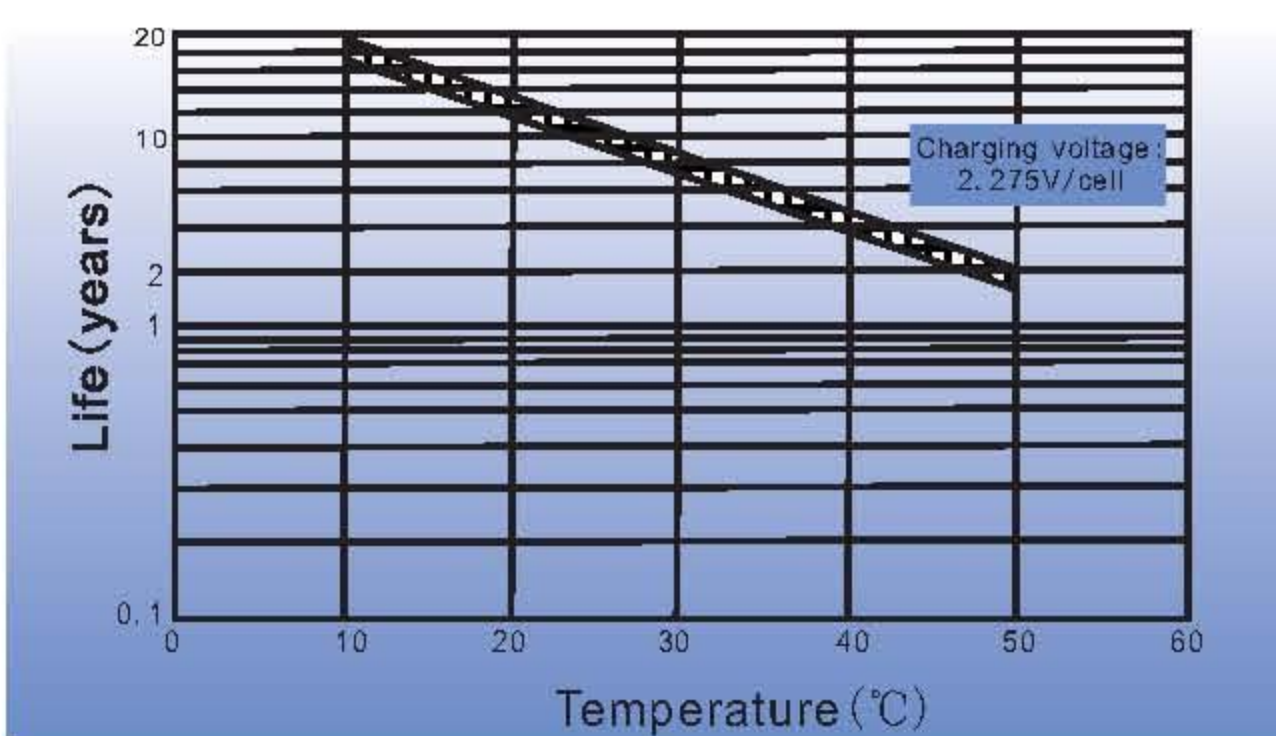
LIFE CHARACTERISTICS OF CYCLIC USE



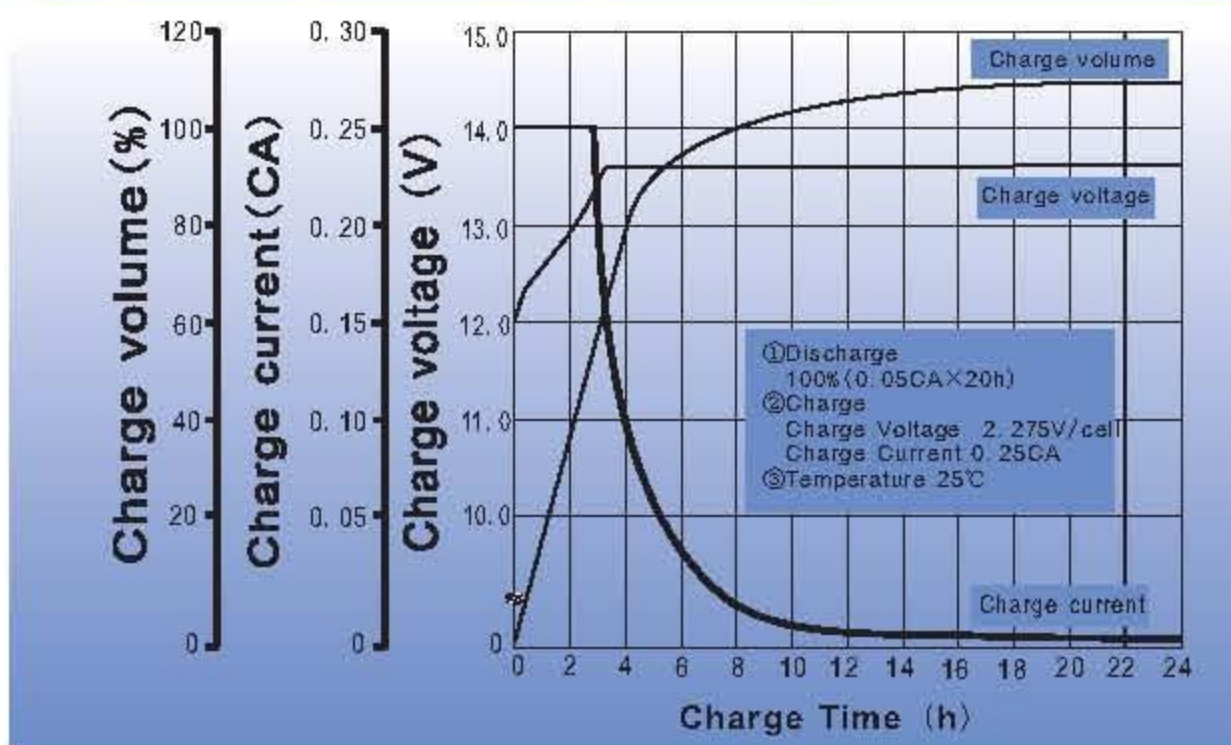
SELF-DISCHARGE CHARACTERISTIC



EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE



CHARGE CHARACTERISTIC CURVE FOR STANDBY USE



## Charging Procedures

Application	Charge Voltage (V/cell)			Max. Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C	2.475	2.45~2.50	0.25C
Standby Use	25°C	2.275	2.25~2.30	

Charge the batteries at least once every 6 months, if they are stored at 25°C.

## Charging Method

Constant Voltage	14.7~15.0V, 5~11h, Max. Current 0.25CA
Constant Current	0.1CA x 5h
Fast	0.25CA x 1.7h

## Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75	1.7	1.6	1.3
Discharge Current(A)	0.2C > (A)	0.2C < (A) < 0.5C	0.5C < (A) < 1.0C	(A) > 1.0C

## Sales Office

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