

Application:

- For standard 19 inch or 23 inch power cabinets
- Network connection equipment of communication system
- Power system of special network or local area network
- UPS, standby power supply
- Power station systems
- Marine systems

Specifications

Battery Model	12V150GA
Nominal Voltage	12V
Rated Capacity	150Ah (10 hour rate) to 1.80V/cell
Typical Weight	52kg
Internal Resistance	Approx 3.9mΩ
Temperature Ranges	Operation (maximum): -40°C to 50°C (-40°F to 122°F)
	Operation (recommended): 15°C to 25°C (59°F to 77°F)
	Storage: -20°C to 40°C (-4°F to 104°F)
Float Voltage	2.25V/cell@25°C (77°F)
Recommended Maximum Charging Current Limit	37.5A
Equalize and Cycle Service	2.35V~2.40V/cell@25°C (77°F)
Self Discharge	The residual capacity is above 90% after 90 days
Terminal	M6 Female
Terminal Hardware Torque	10± 1.0Nm
Dimensions	558*125*310mm

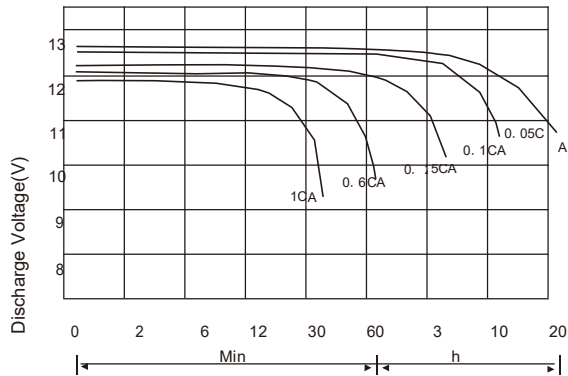
Constant Current Discharge Characteristics Units: Amperes (25°C, 77°F)

End voltage	1min	5min	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	580	503	258	155	92.0	60.0	42.0	35.7	27.6	24.0	18.5	15.5	13.1	8.50	7.15
1.67V	538	458	243	152	89.0	59.3	41.3	35.1	27.2	23.7	18.1	15.3	13.0	8.35	7.05
1.70V	519	443	237	150	88.0	59.0	41.0	34.9	27.0	23.6	18.0	15.2	12.9	8.30	7.00
1.75V	468	399	225	147	85.0	58.0	40.2	34.2	26.5	23.3	17.9	15.1	12.7	8.20	6.90
1.80V	417	360	213	143	82.0	56.0	39.0	33.2	25.8	22.8	17.8	15.0	12.6	8.10	6.80
1.83V	385	339	206	139	78.0	55.0	38.4	32.6	25.4	22.4	17.8	14.9	12.5	8.00	6.70
1.85V	360	318	198	135	75.0	54.0	37.8	32.1	25.0	22.0	17.3	14.7	12.4	8.00	6.70

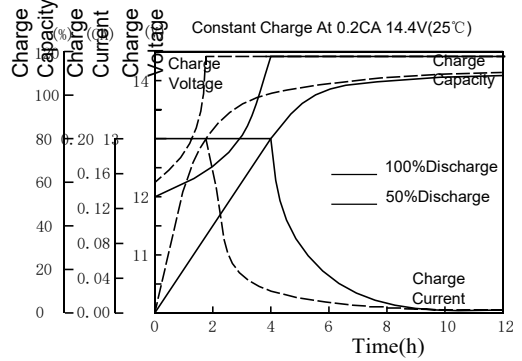
Discharge Data with Constant Power Units: Watts per cell (25°C, 77°F)

End voltage	1min	5min	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	835	679	397	262	153	103	75.3	64.8	51.2	42.7	35.0	27.8	24.0	14.8	13.7
1.67V	820	673	394	260	151	103	74.6	64.1	50.5	42.2	34.7	27.5	23.6	14.6	13.4
1.70V	814	671	393	259	150	102	74.3	63.9	50.3	42.0	34.5	27.3	23.3	14.5	13.3
1.75V	793	663	390	257	148	101	73.7	63.4	50.0	41.7	34.0	27.2	23.0	14.3	13.0
1.80V	751	648	383	255	146	99.0	72.8	62.6	49.5	41.3	33.7	27.0	22.8	14.2	12.7
1.83V	708	617	376	251	143	97.0	71.0	61.1	49.0	41.0	33.3	26.8	22.7	14.0	12.3
1.85V	666	588	369	246	139	94.0	69.8	60.0	48.3	40.7	33.0	26.3	22.5	13.8	12.0

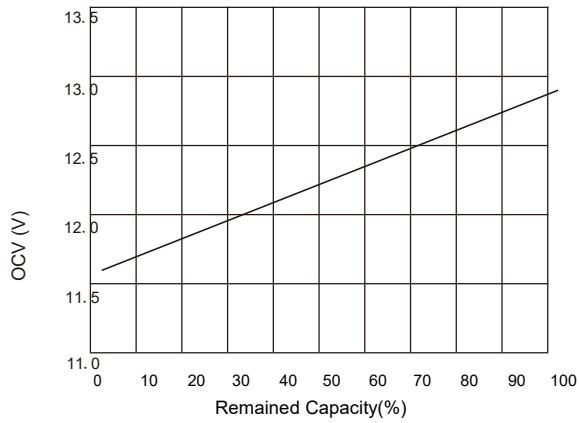
Terminal Voltage(V) Vs. Discharge Time (25°C, 77°F)



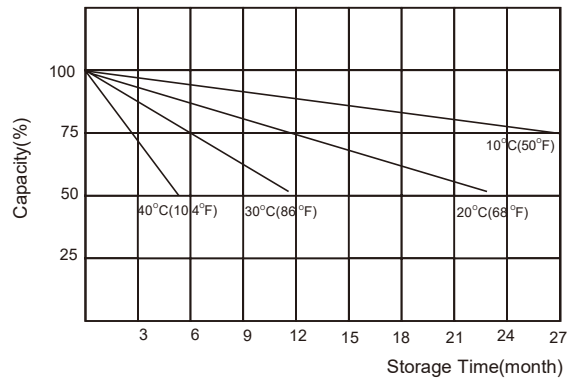
Battery Voltage Vs. Charge Time Charge Characteristic



Relationship of OCV Vs. State of Charge



Capacity Retention Characteristic



Charging Procedures

Application	Charge Voltage (V/Cell)			Max. Charge Current
	Temperature	Set Point	Allowable Range	
Cycle	25°C	2.40	2.35~2.40	0.25C
Standby	25°C	2.25	2.23~2.27	

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.80	1.70	1.55	1.30
Discharge Current (A)	0.2C ≥ (A)	0.2C < (A) < 0.5C	0.5C < (A) < 1.0C	(A) > 1.0C

