

HP6-150 (6V150Ah)

HP series is a general purpose battery with 10 years design life in float service. It meets with IEC, JIS and BS standards. With up-dated AGM valve regulated technology and high purity raw materials, the HP series battery maintains high consistency for better performance and reliable standby service life. It is suitable for UPS/EPS, medical equipment, emergency light and security system applications.



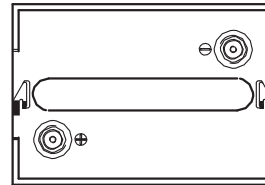
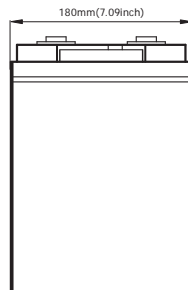
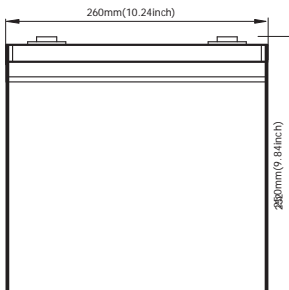
Specification

Cells Per Unit	3
Voltage Per Unit	6
Capacity	150Ah@10hr-rate to 1.80V per cell @25 °C
Weight	Approx. 23.5 Kg(Tolerance ±2%)
Max. Discharge Current	1500A (5 sec)
Internal Resistance	Approx. 2.2 mΩ
Operating Temperature Range	Discharge: -20 °C~60 °C Charge: 0 °C~50 °C Storage: -20 °C~60 °C
Normal Operating Temperature Range	25 °C ± 5 °C
Float charging Voltage	6.8 to 6.9 VDC/unit Average at 25 °C
Recommended Maximum Charging Current	45 A
Equalization and Cycle Service	7.3 to 7.4 VDC/unit Average at 25 °C
Self Discharge	Valve Regulated Lead Acid (VRLA) batteries can be stored for more than 6 months at 25 °C. Self-discharge ratio less than 3% per month at 25 °C. Please charge batteries before using.
Terminal	Terminal F12
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

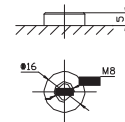


Dimensions

Unit: mm Dimension: 260 (L) × 180 (W) × 247 (252) (H)



Terminal F12



Constant Current Discharge Characteristics: A (25 °C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
4.80V	452.4	337.8	266.7	150.7	93.63	57.81	39.28	31.68	26.29	17.32	15.61	8.26
5.00V	439.3	321.4	261.2	148.8	92.38	56.64	38.56	31.23	26.06	17.25	15.46	8.11
5.10V	426.3	310.1	257.1	146.5	91.50	56.04	38.21	30.91	25.89	17.10	15.30	7.95
5.25V	382.8	286.1	244.8	142.5	90.38	55.31	37.87	30.46	25.67	16.94	15.15	7.80
5.40V	345.5	260.9	225.7	137.8	89.12	54.85	37.43	29.41	25.55	16.87	15.01	7.72
5.55V	295.0	233.2	202.4	132.5	87.01	52.65	36.70	28.99	25.36	16.74	14.84	7.41

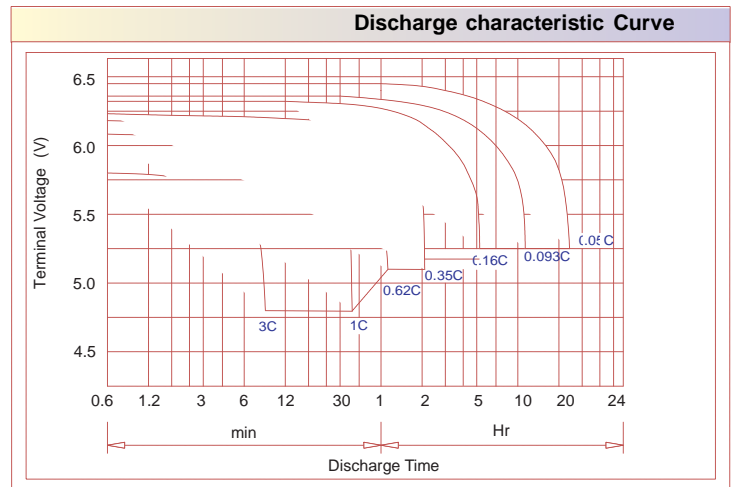
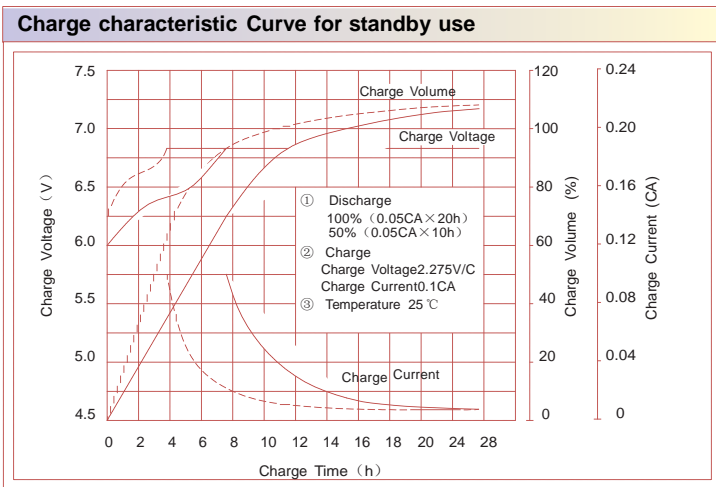
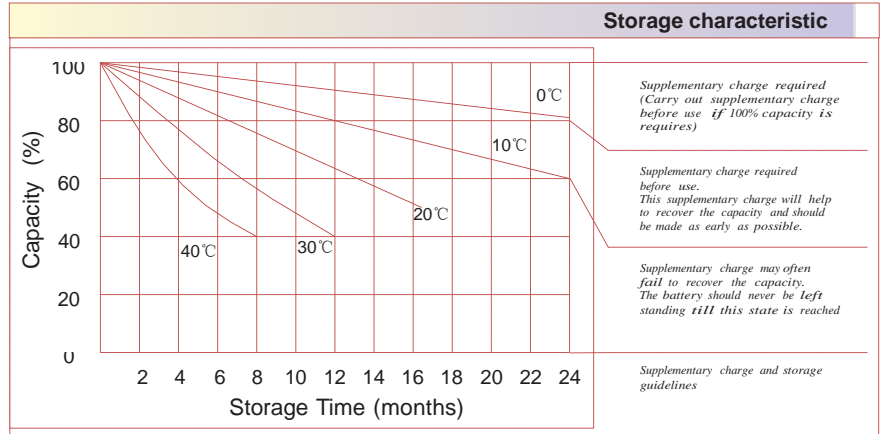
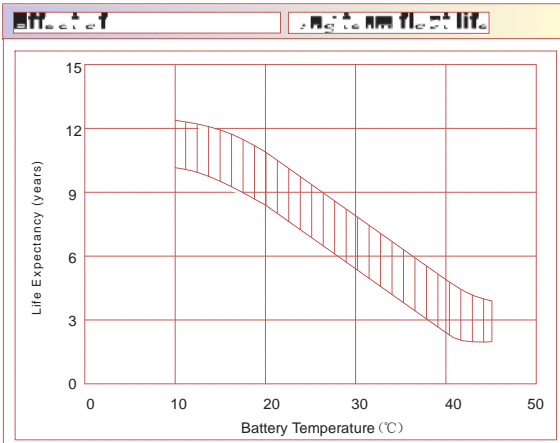
Constant Power Discharge Characteristics: W(25 °C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
4.80V	2339	1799	1467	862.6	542.5	338.7	231.2	189.6	157.5	103.7	93.59	49.77
5.00V	2293	1744	1443	853.6	537.5	334.6	227.8	186.9	156.1	103.3	92.85	48.91
5.10V	2267	1698	1427	846.2	534.4	332.2	226.8	185.2	155.1	102.5	92.03	48.00
5.25V	2064	1581	1361	828.9	530.9	328.0	225.0	182.7	153.9	101.7	91.12	47.09
5.40V	1880	1457	1258	809.3	524.1	325.5	222.4	176.5	153.2	101.2	90.22	46.64
5.55V	1651	1318	1132	787.1	516.3	313.3	218.7	174.0	152.6	100.5	89.24	44.97

All mentioned values are average values (Tolerance ±2%).

HP6-150

6V150Ah



Capacity Factors With Different Temperature

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
GEL Battery	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V /cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤0.2C	0.2C < (A) < 1.0C	(A) ≥1.0C

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

Charging Method:

Constant Voltage	-0.2Cx2h+7.2-7.35Vx24h, Max. Current 0.3C
Constant Current	-0.2Cx2h+0.1Cx12h
Fast	-0.2Cx2h+0.3Cx4h

Bolt	M5	M6	M8
Terminal	F3 F4 F13 F18 T25 T26	F8 F11 F12-1 F15	F5 F9 F10 F12 F14 F16
Torque	6~7N-m	8~10N-m	10~12N-m

Maintenance & Cautions

Float Service:

- ※ Every month, recommend inspection every battery voltage.
- ※ Every three months, recommend equalization charge for one time.

Equalization charge method:

Discharge: 100% rate capacity discharge.

Charge: Max. current 0.3CA, constant voltage 7.2-7.35V charge 24h.

- ※ Effect of temperature on float charge voltage: -3mV/°C/Cell.

- ※ Length of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage.