



HP12-55

(12V55.0Ah)
(200w/cell)



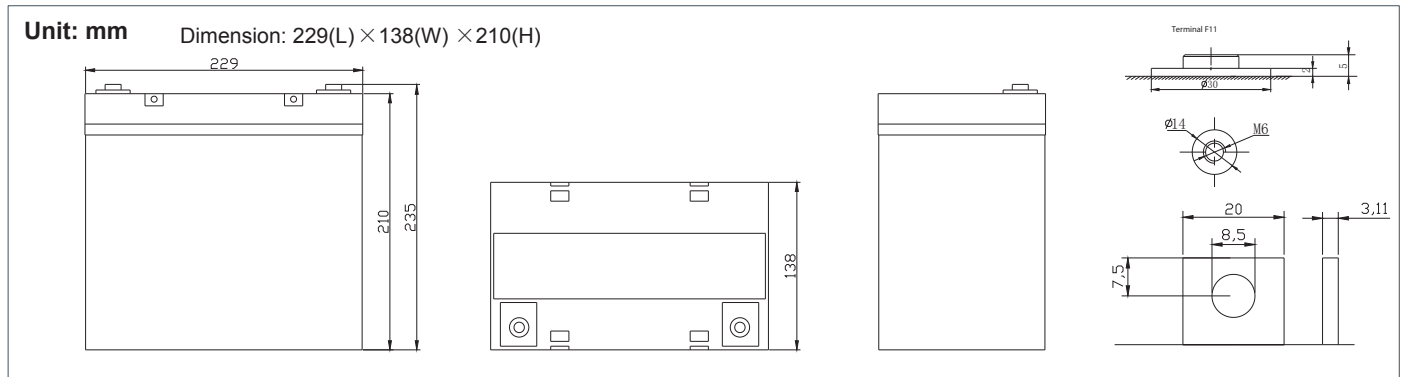
HP (High Rate) series is especially designed for heavy load discharge applications with 10 years design life in float service. By using strong grids and specially designed active material the HP series offers stable performance during high current discharge requirements. The HP series offers 30% more power output than the standard range. Suitable for UPS/EPS where high current loads are required.

Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	200W@15min-rate to 1.67V per cell @25°C
Weight	Approx. 18.0 Kg(Tolerance ± 3%)
Max. Discharge Current	550A (5 sec)
Internal Resistance	Approx. 5.7 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	13.6 to 13.8 VDC/unit Average at 25°C
Recommended Maximum Charging Current	16.5 A
Equalization and Cycle Service	14.6 to 14.8 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	Faston tabF11/F15
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



Dimensions



Constant Current Discharge Characteristics : A(25°C)

F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
9.60V	208.2	170.8	154.4	113.9	85.43	64.98	36.39	29.01
10.0V	193.9	160.1	147.5	111.2	83.87	63.87	35.82	28.59
10.2V	187.9	156.2	145.5	107.5	81.30	62.16	35.06	28.09
10.5V	172.0	143.5	132.9	98.70	76.25	59.24	33.52	26.99
10.8V	148.6	127.2	117.5	91.86	72.17	56.79	33.07	26.53
11.1V	123.3	108.8	104.9	82.79	66.16	52.68	30.58	24.88

Constant Power Discharge Characteristics : W(25°C)

F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
9.60V	2241	1850	1677	1278	969.0	758.7	430.1	346.8
10.0V	2106	1764	1632	1254	954.9	747.6	425.2	344.5
10.2V	2079	1740	1625	1217	931.0	732.5	417.7	339.7
10.5V	1930	1614	1498	1119	877.1	703.2	401.7	326.5
10.8V	1683	1447	1338	1054	839.0	680.6	396.7	321.2
11.1V	1416	1252	1209	962.0	778.5	635.3	370.2	302.1

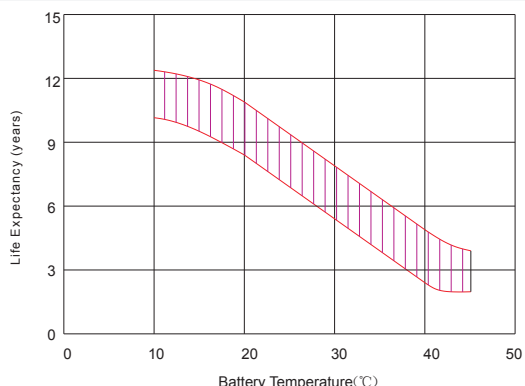
All mentioned values are average values (Tolerance ± 2%).

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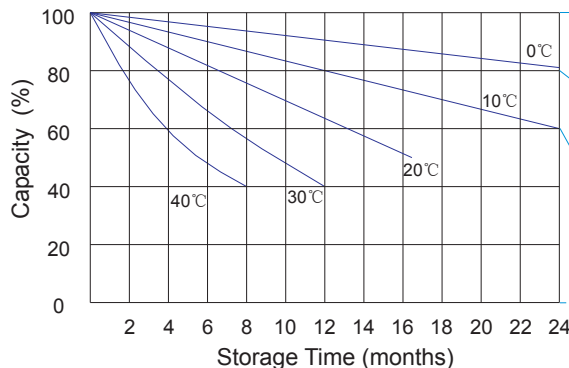
(12V55Ah)



Effect of temperature on long term float life



Storage characteristic



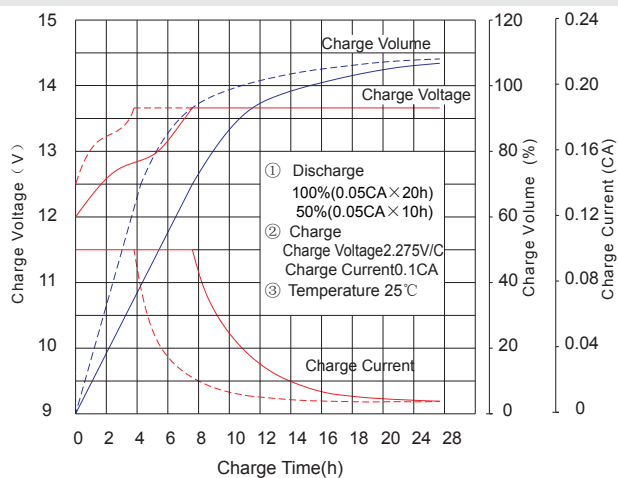
Supplementary charge required (Carry out supplementary charge before use if 100% capacity is required)

Supplementary charge required before use. This supplementary charge will help to recover the capacity and should be made as early as possible.

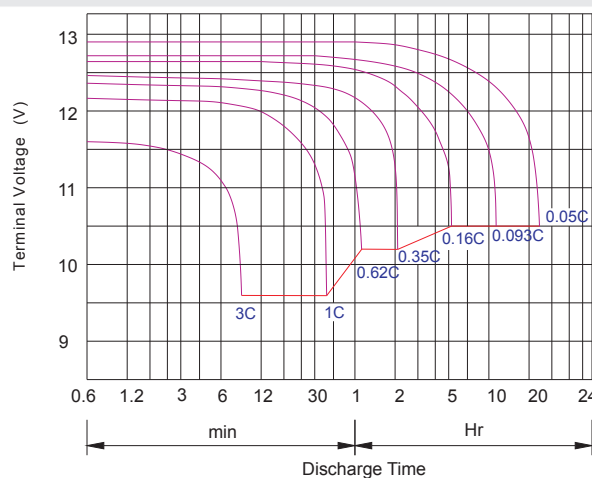
Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached

Supplementary charge and storage guidelines

Charge characteristic Curve for standby use



Discharge characteristic Curve



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 + 14.4~14.7Vx24h, Max. Current 0.3CA
Constant Current	-0.2Cx2h + 0.1CAx12h
Fast	-0.2Cx2h + 0.3CAx4.0h

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 14.4-14.7V 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.



General de Pilas sl

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