

# HP12-55 (12V 55Ah 218W)



## Specification

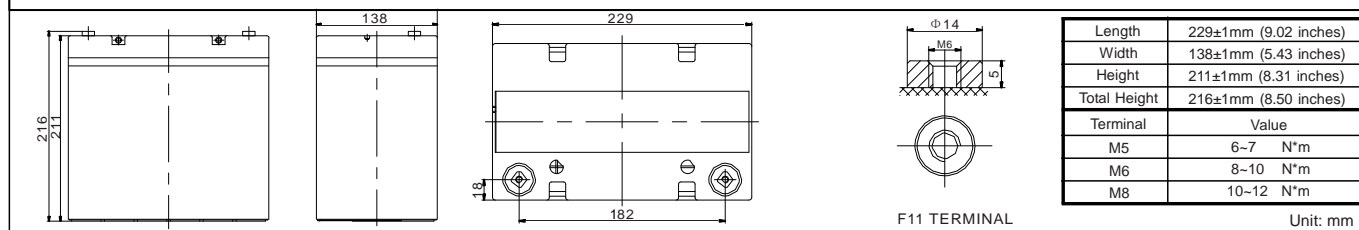
Cells Per Unit	6
Voltage Per Unit	12
Capacity	218W@15min-rate to 1.60V per cell @25°C
Weight	Approx. 18.0 Kg (Tolerance±3.0%)
Internal Resistance	Approx. 5.7 mΩ
Terminal	F11(M6)
Max. Discharge Current	550A (5 sec)
Short Circuit Current	1350A
Design Life	up to 15 years in standby applications
Recommended Maximum Charging Current	16.5 A
Reference Capacity	C10 51.9AH C20 55.0AH
Standby Use Voltage	13.6 V~13.8 V @ 25°C
Cycle Use Voltage	14.6 V~14.8 V @ 25°C
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
Self Discharge	Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly self-discharge ratio is less than 3% at 25°C. Please charge batteries before using.
Constainer Material	A.B.S. UL94-HB, UL94-V0 Optional.



The HP (High Rate) series Valve Regulated Lead Acid (VRLA) battery is designed for heavy load discharge applications with 15 years design life in float service. By using strong grids and specially designed active material the HP series is with lower I.R, lower self discharge rate, high power, and longer service life performance. Generally the HP series offers 30% more power output than the standard range. Suitable for high power standby and cycling situation such as UPS, datacenter, electric tools, etc.



## Dimensions



### Constant Current Discharge Characteristics : A (25°C)

F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	194.4	166.5	149.7	119.0	95.6	70.0	40.3	29.8
1.67V	179.9	156.2	140.5	112.8	89.1	66.8	38.4	28.4
1.70V	172.4	150.7	135.4	109.3	85.7	64.9	37.3	27.5
1.75V	162.9	143.2	127.2	104.2	83.4	63.1	36.7	26.9
1.80V	153.2	135.6	118.8	98.9	80.9	61.1	35.9	26.3
1.85V	142.9	127.5	110.2	93.3	78.1	58.9	35.1	25.5

### Constant Power Discharge Characteristics : WPC (25°C)

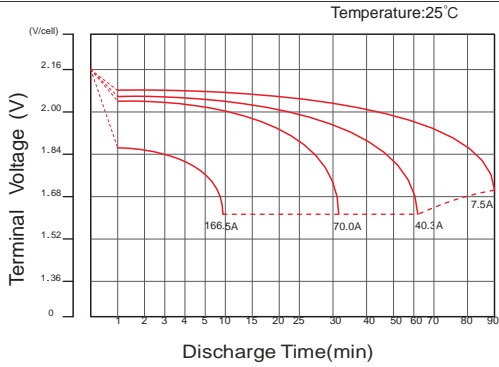
F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	347	301	273	218	176	129	74.5	55.4
1.67V	324	285	258	209	165	124	71.7	53.2
1.70V	314	279	252	204	161	122	70.4	52.2
1.75V	300	268	239	197	159	120	70.1	51.7
1.80V	287	258	227	190	156	118	69.8	51.2
1.85V	273	247	215	183	154	116	69.5	50.7

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

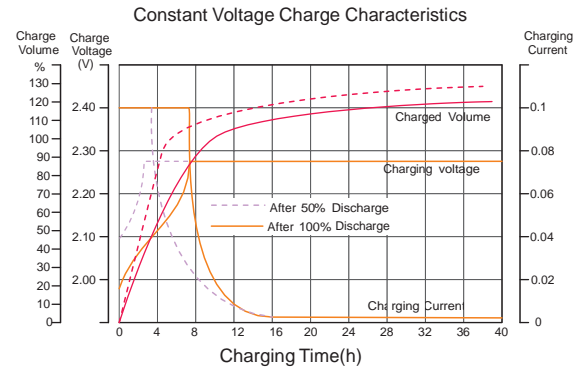
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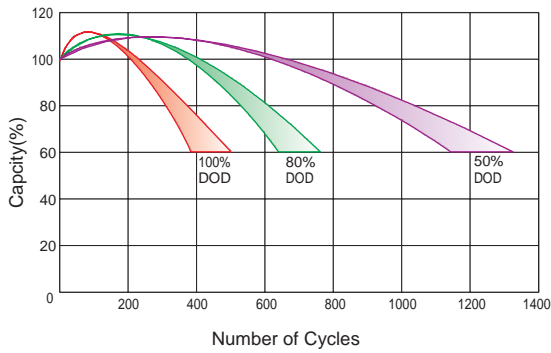
## Discharge Characteristics Curve



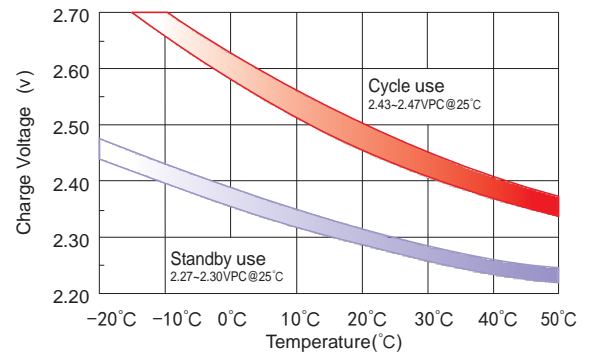
## Charge Characteristic Curve For Standby Use



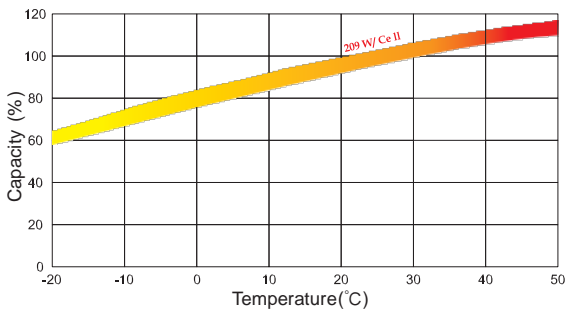
## Cycle Life In Relation To Depth Of Discharge



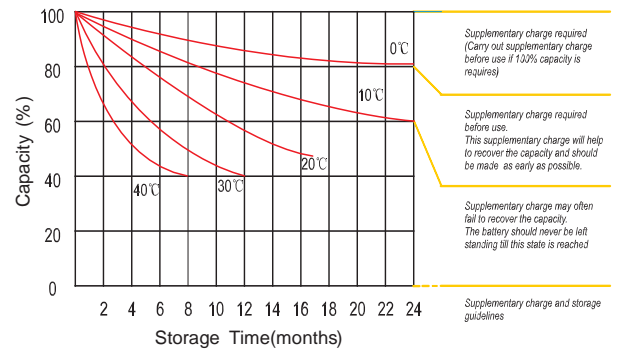
## Relationship Between Charging Voltage And Temperature



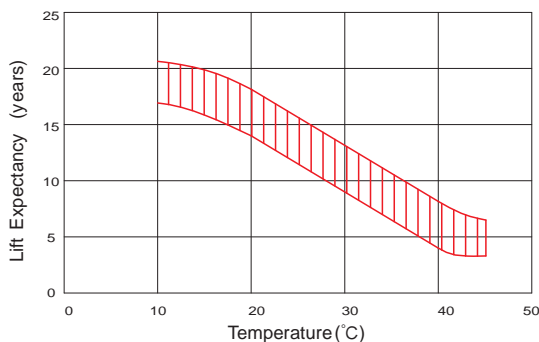
## Temperature Effects On Capacity



## Storage Characteristics



## Effect Of Temperature On Long Term Life



## Life Characteristics Of Standby Use

