

GEL 6-GFM(G)-120Ah



Specification

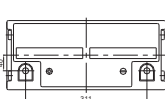
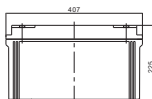
Cells Per Unit	6
Voltage Per Unit	12
Capacity	120Ah@20hr-rate to 1.75V per cell @25°C
Internal Resistance	Approx. 5.5 mΩ
Terminal	M8
Max. Discharge Current	1200A (5 sec)
Design Life	15 years (floating charge)
Maximum Charging Current	24.0A
Initial Current	36.0A MAX
Reference Capacity	C3 81.9AH
	C5 91.0AH
	C10 104.0AH
	C20 120.0AH
Float Charging Voltage	13.6 V~13.8 V @ 25°C
	Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.5 V~14.9 V @ 25°C
	Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -40°C~60°C
	Charge: -20°C~50°C
	Storage: -40°C~60°C
Normal Operating Temperature Range	25°C ± 5°C
Self Discharge	Less than 3% at 25°C per month
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



Application

- Solar/Wind Power System
- Uninterruptible Power Supplies (UPS)
- Electric Power Systems (EPS)
- Emergency Backup Power Supplies
- Communication Power Supplies
- DC Power Supplies
- Auto Control System

Dimensions



F12 Terminal

Length	407±1mm (16.0 inches)
Width	177±1mm (6.97 inches)
Height	225±1mm (8.86 inches)
Total Height	225±1mm (8.86 inches)
Terminal	Value
M5	6~7 N*mm
M6	8~10 N*mm
M8	10~12 N*mm

Unit: mm

Constant Current Discharge Characteristics : A[25°C]

F.V/Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	204.5	164.2	110.0	67.1	40.1	27.7	22.7	18.6	12.8	10.8	6.60
1.65V	194.6	160.8	109.1	66.8	39.8	27.6	22.6	18.5	12.7	10.7	6.36
1.70V	187.7	158.3	108.4	66.1	39.5	27.4	22.5	18.4	12.6	10.6	6.18
1.75V	175.3	152.5	106.7	65.5	39.2	27.3	22.3	18.2	12.5	10.5	6.00
1.80V	161.7	142.2	103.0	64.0	38.5	26.6	21.8	17.8	12.3	10.4	5.64
1.85V	146.2	129.0	97.4	60.8	36.8	25.4	20.7	17.1	11.8	10.1	5.40

Constant Power Discharge Characteristics : WPC[25°C]

F.V/Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	363	301	209	129	78.8	55.1	45.2	37.0	25.5	21.6	11.7
1.65V	352	296	207	129	78.4	55.0	45.1	36.9	25.4	21.5	11.5
1.70V	343	293	207	128	78.0	54.8	45.0	36.8	25.2	21.3	11.3
1.75V	323	283	204	127	77.4	54.6	44.6	36.3	25.0	21.1	11.0
1.80V	301	264	198	124	76.4	53.1	43.6	35.7	24.6	20.8	10.8
1.85V	275	241	188	119	73.6	50.8	41.5	34.2	23.6	20.2	10.2

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

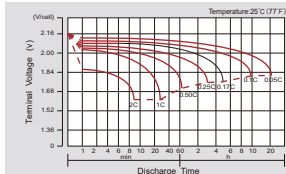


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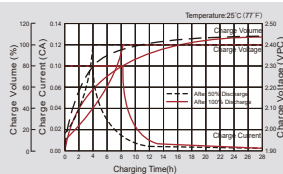
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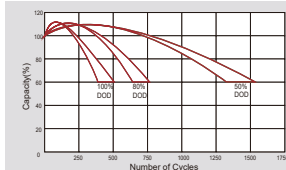
Discharge Characteristics Curve



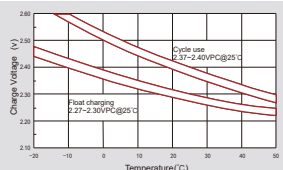
Charge Characteristic Curve for Cycle Use(IU)



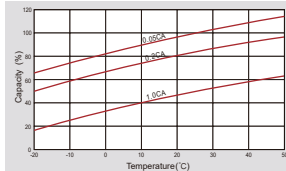
Cycle Life in Relation to Depth of Discharge



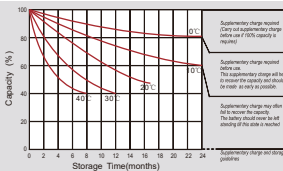
Relationship Between Charging Voltage and Temperature



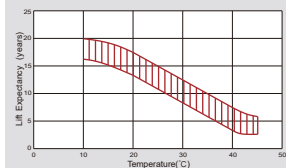
Temperature Effects on Capacity



Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20°C)

