

# GGM SERIES—Flat Plate Gel Batteries

GGM-500 (2V500AH)

## Specifications

Nominal Voltage	2V	
Nominal Capacity	470Ah (8Hr to 1.75 V/cell @ 77°F)	
Dimensions	Length	9.45 inches
	Width	6.89 inches
	Height (with Terminal)	13.39 inches
Weight	66.15lbs.	
Container Material	ABS (V0 flame retardant case and cover optional)	
Hardware / Torque Rating	M6 / 35–48 in–lbs.	
Preferred Operating Temp.	68–77 °F	
Operating Temp Range	Discharge:	–15–50°C (5~122°F)
	Charge:	0~40°C (32~104°F)
	Storage:	–15~40°C (32~104°F)
Internal Resistance	Approx. 0.72mOhms	
Max. Discharge Current	800A (5s)	
Float Voltage	2.25V at 77°F	
Equalize Voltage	2.35V at 77°F	
Max. Charge Current Allowed	3500 Amps	
Self Discharge	The GGM series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



## Applications

- Telecommunications
- Utility
- UPS
- Oil and gas
- Railways



### Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	20 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h
1.85 V/cell	435.0	342.0	260.7	226.5	144.5	110.2	91.3	78.8	68.0	54.3	47.0
1.80 V/cell	499.5	382.0	288.0	250.0	156.5	118.0	96.8	82.8	71.4	56.9	49.1
1.75 V/cell	561.0	420.0	310.7	267.0	165.8	124.7	101.4	86.0	73.9	58.8	50.0
1.70 V/cell	604.5	450.0	330.0	283.0	175.8	129.8	104.6	88.6	76.5	60.5	51.2
1.65 V/cell	628.5	468.0	342.0	293.3	180.3	134.0	107.3	90.5	77.8	61.4	51.8
1.60 V/cell	681.0	500.0	367.3	311.5	187.5	139.3	111.3	93.3	79.7	62.5	52.8

### Constant Current Discharge (Watts) at 25°C (77°F)

F.V/Time	20 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h
1.85 V/cell	826.1	653.9	501.5	437.6	280.2	214.2	178.1	154.4	133.7	107.3	92.9
1.80 V/cell	936.1	723.5	548.9	480.5	301.9	228.6	188.1	161.6	139.9	112.1	96.9
1.75 V/cell	1039.5	786.7	586.8	510.5	318.9	241.0	196.5	167.1	144.3	115.4	98.7
1.70 V/cell	1108.0	837.0	621.1	539.1	336.6	250.2	202.2	171.8	149.3	118.7	100.9
1.65 V/cell	1138.8	858.8	637.8	554.3	343.4	257.1	206.7	174.8	151.1	120.1	101.9
1.60 V/cell	1220.4	911.5	681.4	585.6	355.5	266.1	213.7	179.7	154.3	122.1	103.8

### T11 Terminal Unit: mm [inches]

