

# GEL SERIES

## SNG02500 (2V 500AH)



### Specifications

Nominal Voltage	2V
Nominal Capacity(10hr)	500AH
Dimension	Length 241±2mm(9.49inch)
	Width 172±2mm(6.77inch)
	Height 331±2mm(13.03inch)
	Total Height 350±2mm(13.78inch)
Approx Weight	Approx. 31.6kg(70.2lbs)
Terminal Type	T11
container Material	ABS(UL-94HB)
Internal Resistance	Approx. 0.7m
Rated Capacity	520AH/26A (20hr, 1.80V/cell,25 /77 )
	500AH/50.0A (10hr, 1.80V/cell,25 /77 )
	435AH/87A (5hr, 1.75V/cell,25 /77 )
	385AH/128.3A (3hr, 1.75V/cell,25 /77 )
	310AH/310A (1hr, 1.60V/cell,25 /77 )
Max. Discharge Current	4000A(5S)
Nominal Operating Temp. Range	25±3 (77±5 )
Cycle Use	Charge Current Less Than 0.25CA
	2.35V~2.45V@25 (77 )Temp. Coefficient -5mV/
Floating Use	No limit on Initial Charging Current Voltage
	2.25V~2.3V@25 (77 )Temp. Coefficient -3mV/
	40°C 103%
Capacity affected by Temperature	25°C 100%
	0°C 86%
	-15°C 65%
	3 month Remaining capacity: 91%
Self-discharge	6 month Remaining capacity: 82%
	12month Remaining capacity: 65%



### Constant Power Discharge at 25 (77 )

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	1072.4	954.6	847.6	757.9	640.4	524.5	429.7	289.9	222.4	179.8	154.4	136.2	110.9	95	50.4
1.80V/cell	1291.4	1104	953	837.1	693	559.8	455.3	303	239.6	185	159.8	141.4	115.9	99.3	52.2
1.75V/cell	1477.4	1244.9	1064.9	918.8	747.6	600.1	487.7	320.2	242.6	194.6	167.1	147.6	118.6	101.2	52.8
1.70V/cell	1644.2	1375.5	1160.8	1002.9	807.9	638.7	514.6	337.4	252.8	202.2	173.6	152.6	122.3	103.6	53.9
1.65V/cell	\	1457.2	1225.5	1052.1	839.6	657.9	530.9	346.4	259.7	207.5	177.7	154.9	124.2	105.1	54.7
1.60V/cell	\	1613	1354.9	1160.3	912	707.9	567	361.9	269.4	215.5	185.4	161.3	128.6	108.3	56.3

### Constant Current Discharge at 25 (77 )

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	583.4	514	451.8	399.9	334.3	271.5	221.6	148.5	113.5	91.5	78.3	68.9	55.9	47.8	25.3
1.80V/cell	710	601.5	514.9	448.3	367.3	292	236.1	156.3	123	94.6	81.5	71.8	58.6	50	26.3
1.75V/cell	829.8	689.3	582.5	496.8	399.5	316	254	165.8	125	99.9	85.5	75.3	60.1	51	26.6
1.70V/cell	949.7	779.1	643.8	546.3	434.1	337.6	268.9	175	130.5	104	89	77.9	62	52.3	27.2
1.65V/cell	\	833	685	577.4	454.9	350.9	279.4	180.8	134.7	107.1	91.4	79.3	63.1	53.1	27.6
1.60V/cell	\	943.4	769.9	643.8	497.5	379.6	300	189.8	140.3	111.6	95.6	82.8	65.5	54.8	28.5