

SPG Series

SPG100-12 S



SPG series battery uses latest GEL technology with longer cycle life. It is suitable for large current and deep cyclic applications. It can be used in e-vehicles, sightseeing, golf and logistics cars.

Benefits

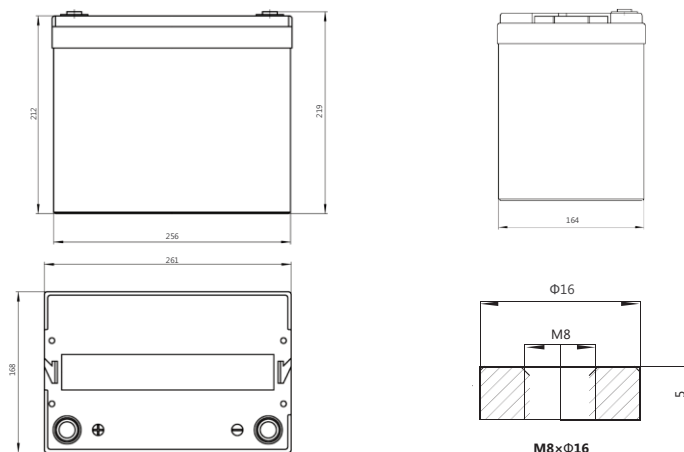
- Up to 700 cycles 80% DOD
- Good large current discharge performance
- High gas recombination efficiency
- Maximum charge efficiency
- Low self-discharge rate
- Easy installation and handling



Applications

- Electrical Vehicle
- Mixture Electrical vehicle

Drawing



Standards

- GB/T 18332.1
- QC/T 742
- IEC61982-3
- GB/T 7403.1
- GB/T 23636

Specifications

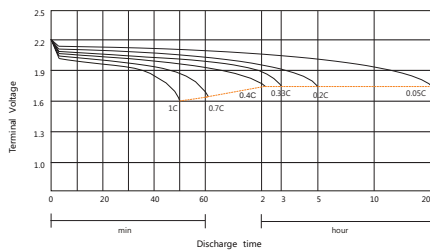
Battery Model	SPG100-12 S			
Design Life (80% DOD)	700 cycles			
Capacity (Ah, 25°C)	20HR (4.75A, 1.75V)	5HR (17.0A, 1.75V)	3HR (26.67A, 1.75V)	2HR(36A, 1.75V)
	100	85	80	72
Dimensions (mm)	Length	Width	Height	Total Height
	261	168	212	219
Approx. Weight (kg)	26.5			
Reference Internal Resistance (mΩ)	6.0 (full charged @ 25°C)			
Maximum Discharge Current (A/10 Sec.)	720			
Self-Discharge (25°C)	≤3% per month			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.45 (-3mV/°C/cell), max charge current: 12A		2.35 (-3mV/°C/cell)	

Discharge Data

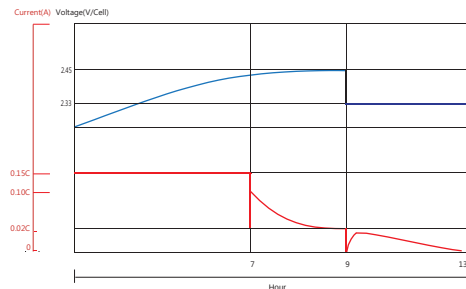
Constant Current Discharge Data (25°C, A)											
End Voltage (V/cell)	min					h					
	10	20	30	45	60	1.5	2	3	5	10	20
1.60	257.9	151.8	110.2	79.44	63.88	46.25	37.04	27.31	17.35	9.248	5.214
1.65	252.3	149.1	108.6	78.41	63.08	45.75	36.70	27.10	17.22	9.190	5.190
1.70	245.6	146.0	106.5	76.99	62.21	45.24	36.32	26.88	17.11	9.141	5.169
1.75	238.7	142.8	104.6	75.87	61.42	44.76	36.00	26.67	17.00	9.100	5.000
1.80	229.2	138.4	102.1	74.46	60.46	44.17	35.63	26.47	16.91	9.060	4.936

Constant Power Discharge Data (25°C, W/cell)											
End Voltage (V/cell)	min					h					
	10	20	30	45	60	1.5	2	3	5	10	20
1.60	453.1	273.4	202.6	148.3	120.9	88.66	71.57	53.20	34.01	18.26	9.547
1.65	451.3	272.7	202.1	148.0	120.4	88.20	71.34	53.07	33.93	18.22	9.532
1.70	445.6	270.2	200.2	146.8	119.8	87.88	71.14	53.01	33.90	18.20	9.526
1.75	439.0	267.6	198.9	146.1	119.3	87.73	70.99	52.87	33.84	18.17	9.511
1.80	433.0	264.7	197.1	145.0	118.4	87.10	70.63	52.68	33.76	18.14	9.510

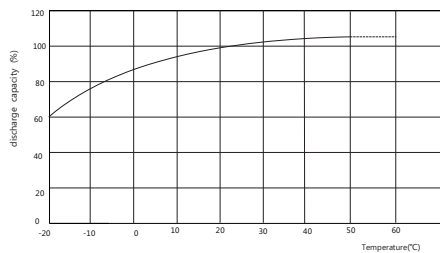
Performance Curve



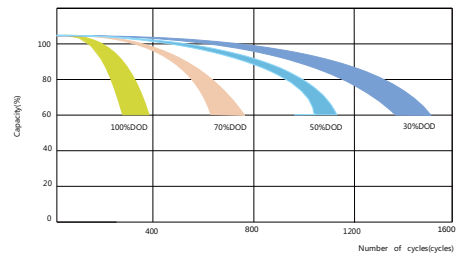
Discharging performance



Charge performance



Discharge capacity vs. temperature



Cycles vs. discharge depth