

## MP-121000-GSS

### Features:

MP series battery uses AGM and Gel mixed technology. It has good cycle life and large current discharge performance. It is a cost effective product and can be widely used in different photovoltaic, lighting, power supply and control systems.



### Benefits

- Easy installation and handling
- General Purpose according to EUROBAT Classification
- Special AGM separator, adding gel electrolyte, shallow cycle life is long
- Maximum charge efficiency
- High gas recombination efficiency
- Low self-discharge rate
- Horizontal or Vertical installization

### Applications

- Solar (Wind) energy system
- Solar communication/station
- Mobile storage system

### Technical Specifications

Battery Model	MP-121000-GSS			
Design Life (years, 25°C)	10			
Capacity (Ah, 25°C)	10HR (5.0A, 1.80V)	50HR (16.85A, 1.80V)	3HR (24.5A, 1.80V)	1HR (54.20A, 1.75V)
	100	84.25	73.5	54.2
Dimensions (mm)	Length	Width	Height	Total Height
	330	174	217	226
Approx. Weight (kg)	29.0			
Reference Internal Resistance (mΩ)	5.0 ( fully charged @ 25°C)			
Maximum Discharge Current (A/5 Sec.)	1000			
Self-Discharge (25°C)	≤ 1.5% per months			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.40(-3.5mV/°C/cell), max charge current: 20A		2.27(-3.5mV/°C/cell)	
Short Circuit Current (A)	2400			

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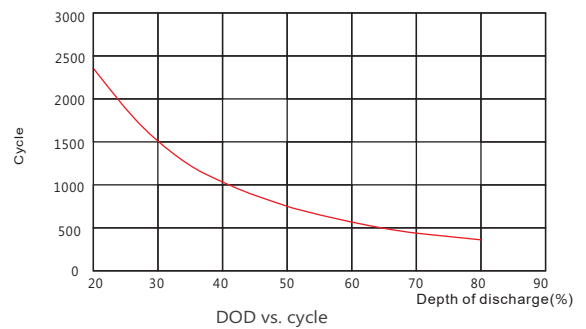
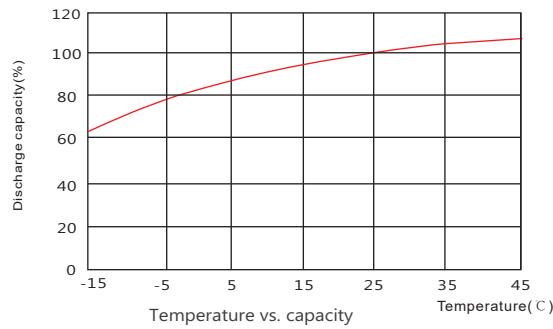
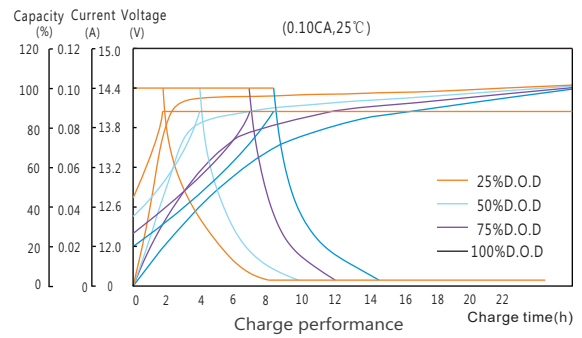
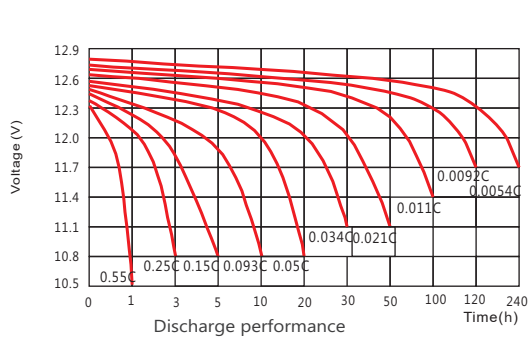
**Constant Current Discharge Data (25°C, A)**

End Voltage (V/cell)	min				h								
	10	15	30	45	1	3	5	10	20	50	100	120	240
1.70	143	125	89.0	64.4	55.70	25.80	17.70	10.25	5.280	2.220	1.160	0.980	0.520
1.75	140	121	86.7	62.7	54.20	25.30	17.35	10.15	5.150	2.180	1.140	0.966	0.510
1.80	135	118	84.0	60.7	52.50	24.50	16.85	10.00	5.100	2.130	1.120	0.950	0.500
1.85	130	113	80.8	58.4	50.50	23.60	16.25	9.750	4.950	2.070	1.090	0.926	0.490
1.90	124	108	76.8	55.5	48.00	22.50	15.55	9.450	4.800	2.000	1.060	0.900	0.480

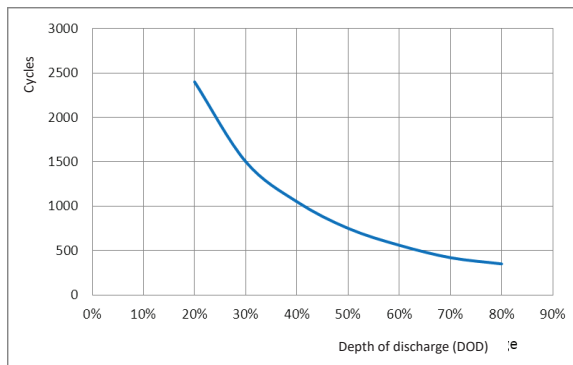
**Constant Power Discharge Data (25°C, W/cell)**

End Voltage (V/cell)	min				h								
	10	15	30	45	1	3	5	10	20	50	100	120	240
1.70	258	224	160	116	100.0	45.10	32.00	18.10	9.800	4.100	2.350	2.020	1.030
1.75	250	217	155	112	97.00	44.88	31.40	17.70	9.600	3.920	2.270	1.950	1.010
1.80	242	210	150	109	94.00	44.15	30.50	17.20	9.500	3.890	2.190	1.890	0.980
1.85	234	204	146	105	91.00	43.75	29.50	16.50	9.300	3.790	2.070	1.810	0.920
1.90	228	198	142	102	88.50	42.97	29.00	16.30	9.100	3.720	2.000	1.730	0.890

**Performance Curve**



SAJ series DOD vs. cycles (25°C)



No supplementary charge required  
(Carry out supplementary charge before use if 100% capacity is required.)