

SPG Series

SPG12-500W 12V140Ah

SPG series VRLA battery uses AGM technology and high-purity raw materials. It has good high power discharge, floating backup and fast charging performance. It is mainly used in UPS/EPS standby power supply systems. It can backup power in poor operation environment.



Benefits

- Long life according to EUROBAT Classification
- Maximum charge efficiency
- High gas recombination efficiency
- Low self-discharge rate
- Horizontal or vertical installization

Applications

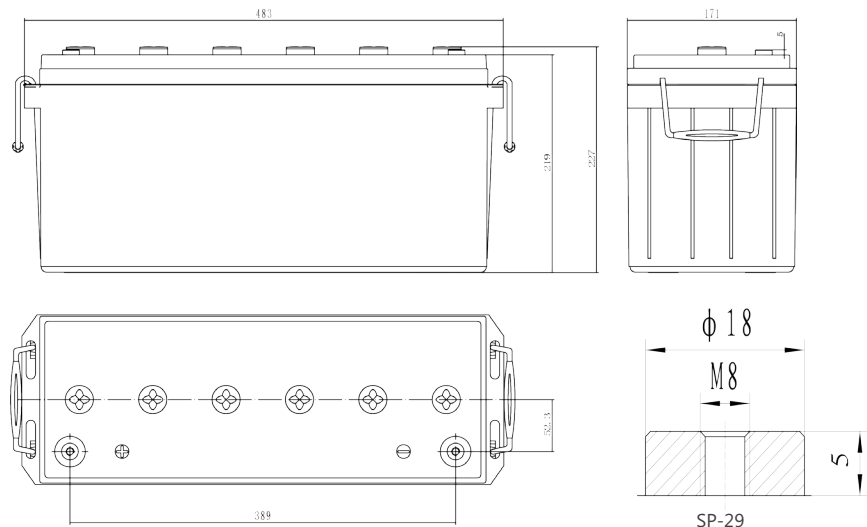
- UPS units
- Data center
- Starting generators
- EPS units

Standards

- IEC 60896-21/22
- JIS C8704-1/2
- EUROBAT guide

Specifications

Drawing



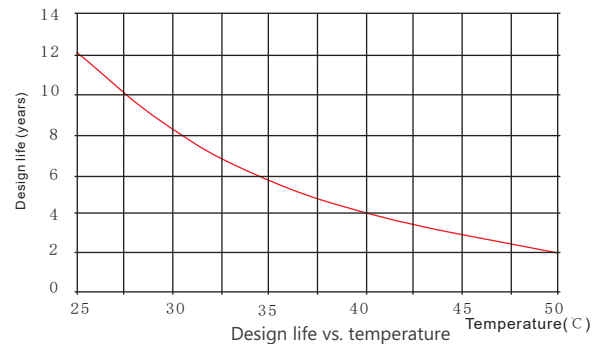
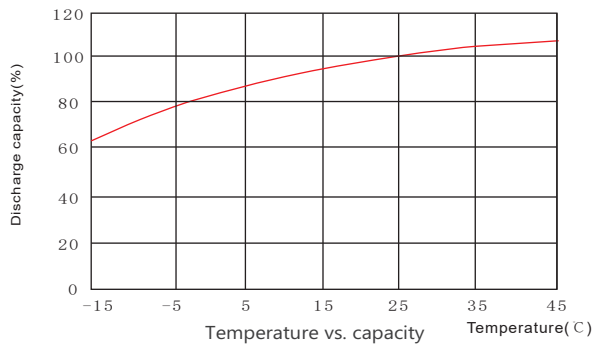
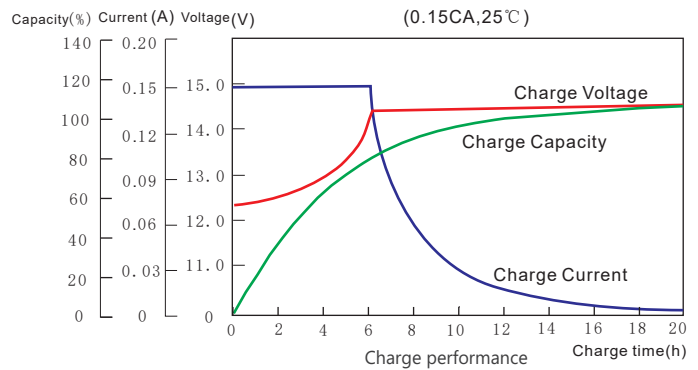
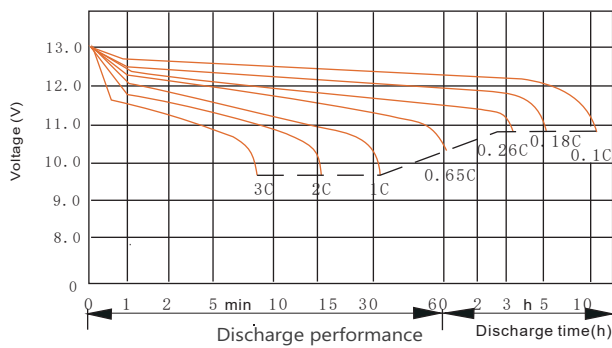
Battery Model	SPG12-500W			
Design Life (years, 25°C)	12			
Capacity (Ah, 25°C)	10min (1.60V)	15min (1.67V)	1HR (80A, 1.75V)	10HR (14A, 1.80V)
	600W/cell	500W/cell	80Ah	140Ah
Dimensions (mm)	Length	Width	Height	Total Height
	483	171	219	227
Approx. Weight (kg)	42.6			
Reference Internal Resistance (mΩ)	3.2 (fully charged @ 25°C)			
Maximum Discharge Current (A/5 Sec.)	1540			
Self-Discharge (25°C)	≤ 2% per months			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.40(-3.5mV/°C/cell), max charge current: 42A		2.27(-3.5mV/°C/cell)	
Short Circuit Current (A)	3750			

Discharge Data

Constant Current Discharge Data (25°C, A)													
End Voltage (V/cell)	min						h						
	10	15	20	25	30	45	1	1.5	2	3	5	6	10
1.60	347	285	231	195	162	118	88.8	75.0	57.9	40.3	25.3	21.6	14.5
1.65	334	275	223	189	156	115	86.0	73.3	56.7	39.1	24.9	21.3	14.4
1.67	323	266	217	184	152	112	84.4	71.9	55.7	38.4	24.6	21.0	14.3
1.70	312	256	211	178	148	110	82.7	70.6	54.8	37.6	24.1	20.9	14.2
1.75	294	246	200	169	142	105	80.0	68.4	53.3	36.5	24.0	20.6	14.1
1.80	274	231	189	161	134	101	77.0	65.9	51.6	35.0	23.3	20.3	14.0

Constant Power Discharge Data (25°C, W/cell)													
End Voltage (V/cell)	min						h						
	10	15	20	25	30	45	1	1.5	2	3	5	6	10
1.60	600	535	435	375	312	230	193	152	108	78.9	53.5	46.9	29.4
1.65	574	520	422	368	307	224	187	147	106	76.6	52.6	46.1	28.7
1.67	553	500	407	360	301	220	184	142	103	75.0	51.3	45.0	28.5
1.70	532	489	392	347	293	217	181	140	102	73.4	50.8	44.6	28.2
1.75	511	467	377	336	285	212	175	136	100	72.1	49.9	43.6	27.8
1.80	486	446	362	324	274	205	167	132	97	70.8	48.4	42.5	26.9

Performance Curve



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