

# SPG Series

## SPG12-700W 12V185Ah

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

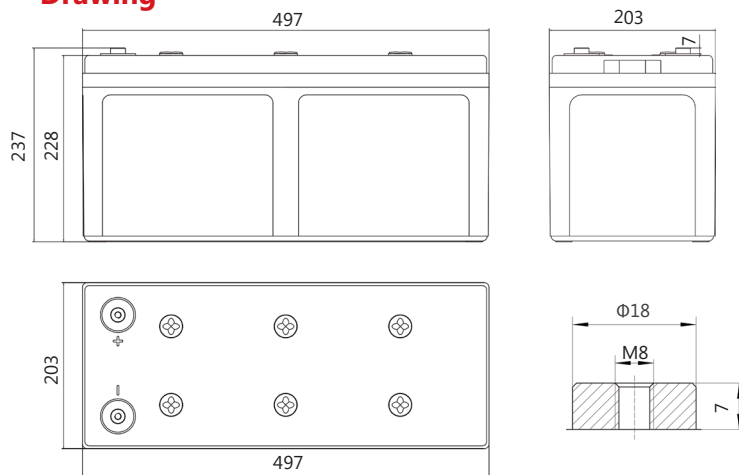
### Applications

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

### Standards

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

### Drawing



SP-31

### Specifications

Battery Model	SPG12-700W			
Design Life (years, 25°C)	12			
Capacity (Ah, 25°C)	10min ( 1.60V)	15min ( 1.67V)	1HR (110A, 1.75V)	10HR (18.5A, 1.80V)
	800W/cell	700W/cell	110Ah	185Ah
Dimensions (mm)	Length	Width	Height	Total Height
	497	203	228	237
Approx. Weight (kg)	57.3			
Reference Internal Resistance (mΩ)	2.4 ( fully charged @ 25°C)			
Maximum Discharge Current (A/5 Sec.)	1980			
Self-Discharge (25°C)	≤ 2% per months			
Charge Voltage (V/cell, 25°C)	Equalizing voltage		Float voltage	
	2.40(-3.5mV/°C/cell), max charge current: 55.5A		2.27(-3.5mV/°C/cell)	
Short Circuit Current (A)	4800			

## Discharge Data

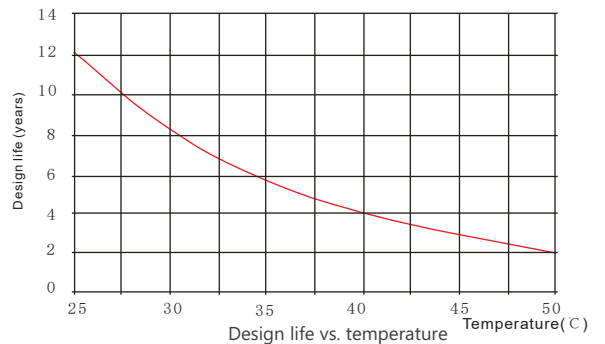
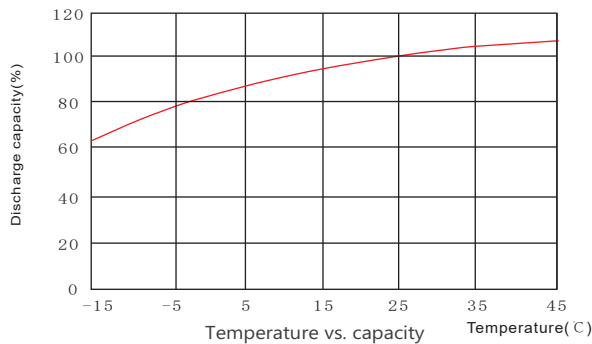
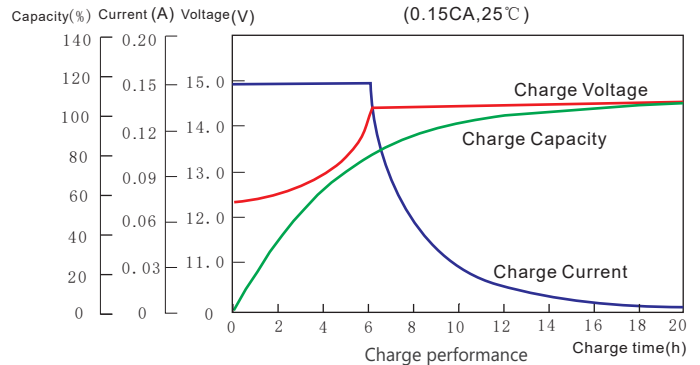
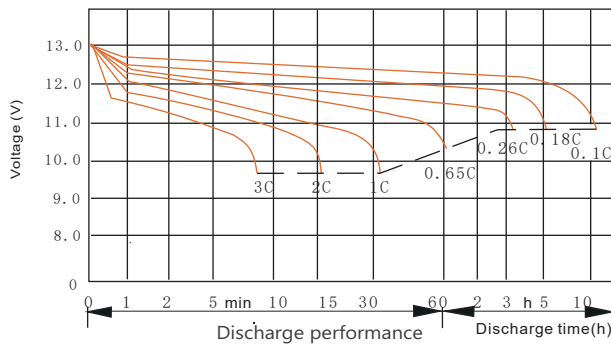
**Constant Current Discharge Data (25°C, A)**

End Voltage (V/cell)	min						h							
	10	15	20	25	30	45	1	1.5	2	3	4	5	6	10
1.60	450	386	318	264	223	156	124	92.0	74.3	53.8	42.5	34.7	29.7	19.1
1.65	430	372	310	256	217	152	118	90.0	72.8	52.3	41.2	34.2	29.3	19.0
1.67	417	360	300	248	210	148	116	88.6	71.4	51.3	40.0	33.8	28.8	18.9
1.70	403	346	290	238	205	144	113	86.4	70.3	50.3	39.7	33.2	28.8	18.8
1.75	380	333	280	227	196	136	110	83.6	68.4	48.8	38.8	33.0	28.4	18.7
1.80	353	313	262	216	186	130	106	80.4	66.2	46.8	37.7	32.0	27.9	18.5

**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	4	5	6	10
1.60	800	710	594	495	425	298	244	183	147	100	80.3	68.4	58.6	37.6
1.65	780	704	577	486	417	290	240	178	143	97.8	78.8	67.2	57.8	36.7
1.67	765	700	558	476	412	285	236	176	140	95.8	77.8	65.6	57.4	36.5
1.70	750	665	538	458	398	280	225	172	138	93.8	76.8	64.8	57.0	36.0
1.75	730	650	518	444	388	276	218	168	135	92.2	75.8	63.8	55.7	35.5
1.80	660	570	490	428	372	264	210	160	130	90.5	74.0	61.8	54.3	34.4

## Performance Curve



**Sacred Sun Power Sources Co., Ltd.**

Add: No.1 Shengyang Road, Qufu 273100 PRC  
Tel: +86-537-4422313 Fax: +86-537-4411980  
Email: sales@sacredsun.cn

**Sacred Sun Hong Kong Co., Limited**

Add: RM 19C Lockhart CTR 301-307 Lockhart RD Wan Chai, Hong Kong  
Email: admin.hk@sacredsun.hk

**Sacred Sun Asia Pacific Pte Ltd.**

Add: 1 Ubi View, #04-12, Focus One, Singapore 408555  
Email: admin.sg@sacredsun.sg

**Sacred Sun Europe SARL**

Add: ZAE Fontaine, 33210 Fargues, France  
Email: admin.eu@sacredsun.eu

**Sacred Sun MEA FZE**

Add: No. 311 office, Building LOB 14, JAFZA, Dubai, UAE  
Email: admin.ae@sacredsun.ae

