

SPG Series

SPG12-490W 12V135Ah

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

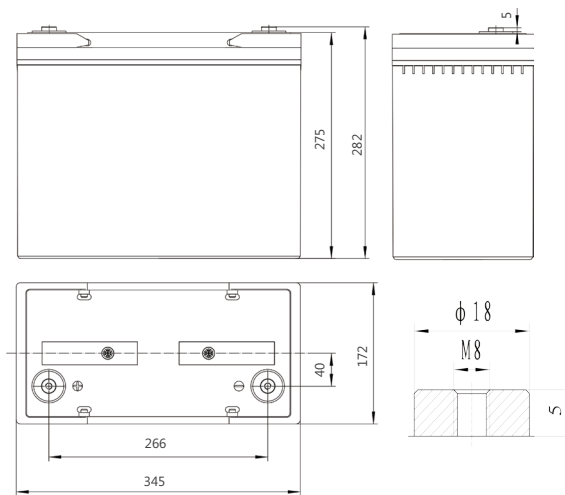
Applications

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

Standards

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

Drawing



SP-29

Specifications

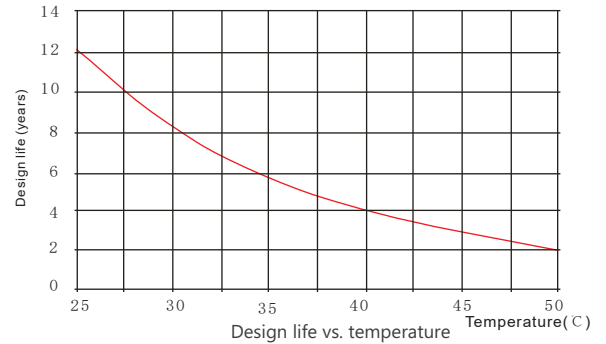
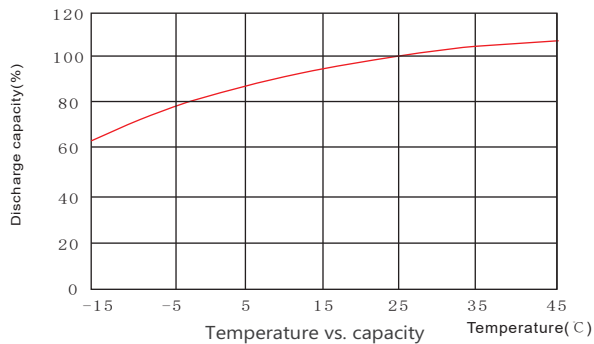
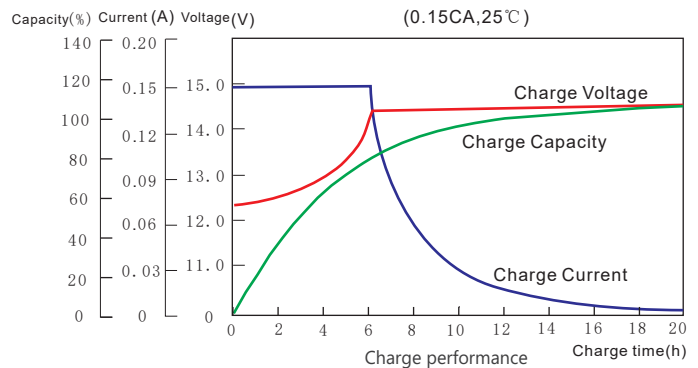
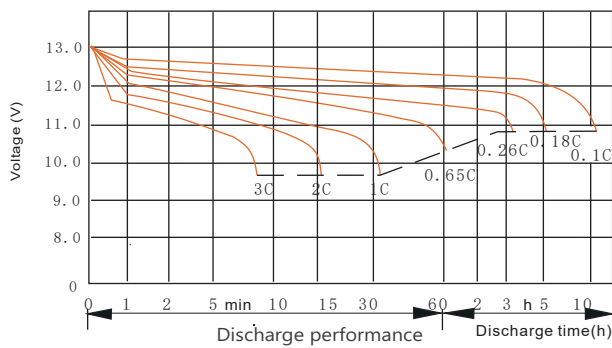
Battery Model	SPG12-490W			
Design Life (years, 25°C)	12			
Capacity (Ah, 25°C)	10min (1.60V)	15min (1.67V)	1HR (81A, 1.75V)	10HR 13.5A, 1.80V)
	588W/cell	490W/cell	81Ah	135Ah
Dimensions (mm)	Length	Width	Height	Total Height
	345	172	275	282
Approx. Weight (kg)	42.5			
Reference Internal Resistance (mΩ)	3.6 (fully charged @ 25°C)			
Maximum Discharge Current (A/5 Sec.)	1485			
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: 40.5A		2.27(-3.5mV/°C/cell)	
Short Circuit Current (A)	3300			

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	340	279	226	192	158	116	89.7	73.5	55.6	39.5	24.8	21.1	14.1
1.65	327	269	219	186	153	113	86.9	71.8	54.5	38.3	24.4	20.9	14.0
1.67	316	260	213	180	148	110	85.2	70.4	53.4	37.6	24.1	20.6	13.9
1.70	306	251	207	174	144	108	83.5	69.2	52.6	36.9	23.7	20.5	13.8
1.75	288	241	196	166	139	103	81.0	67.1	51.3	35.8	23.5	20.2	13.6
1.80	268	226	185	158	131	98.5	77.7	64.6	49.6	34.3	22.8	19.9	13.5

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	5	6	10
1.60	588	524	426	367	316	237	190	149	106	77.3	52.4	45.9	28.8
1.65	563	510	413	360	309	232	184	144	104	75.0	52.1	45.2	28.4
1.67	542	490	399	353	304	227	180	140	101	73.5	50.3	44.1	27.8
1.70	522	474	384	340	296	223	177	137	100	71.9	49.8	43.7	27.4
1.75	500	457	370	329	288	219	172	133	98	70.7	48.9	42.7	26.9
1.80	476	437	354	317	277	212	165	130	95	69.4	47.4	41.6	26.1

Performance Curve



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