

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
- Vertical installation

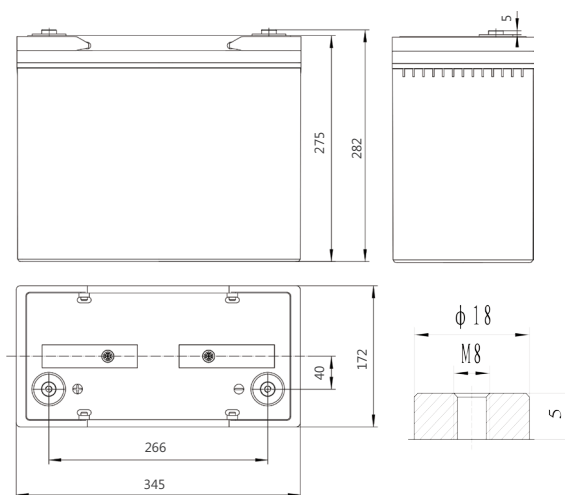
Applications

- 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±15%(full charged @ 25°C,testing device:HIOKIBT3562)			
Self-Discharge (25°C)	≤ 2 % per month			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.40 (-3.5mV/°C/cell), max charge current:33.75A		2.27 (-3.5mV/°C/cell)	
Short Circuit Current (A)	3300(for reference only)			

Discharge Data

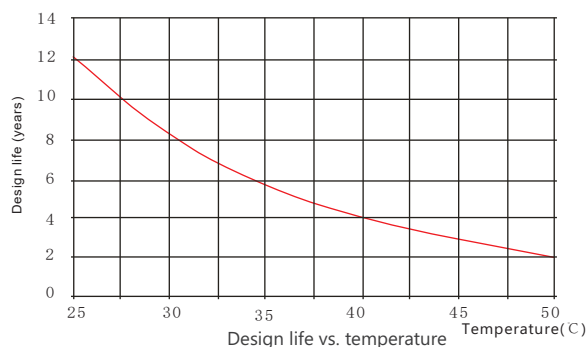
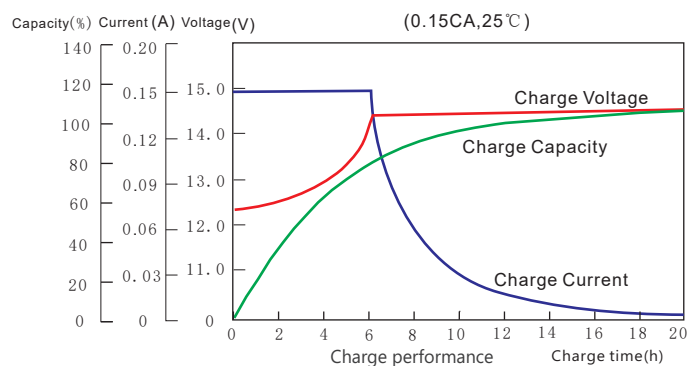
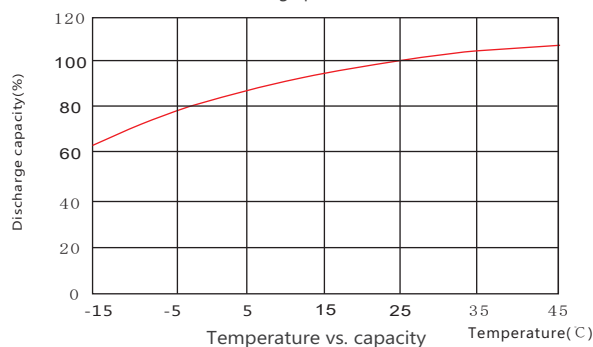
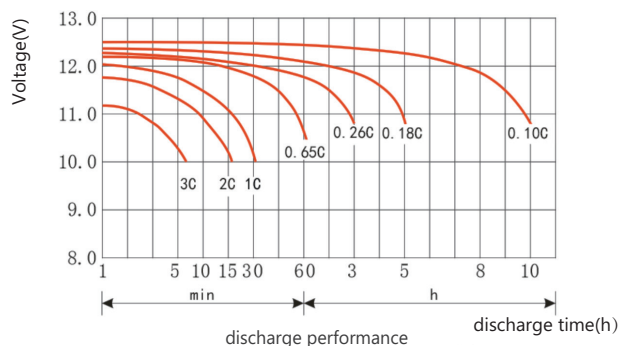
Constant Current Discharge Data (25°C, A)

End Voltage (V/cell)	min						h							
	10	15	20	25	30	45	1	1.5	2	3	4	5	6	10
1.60	340	278	226	192	158	116	89.7	73.5	55.6	39.5	30.3	24.8	21.0	14.0
1.65	327	268	218	186	153	113	86.8	71.8	54.5	38.3	29.4	24.4	20.8	14.9
1.67	316	260	213	180	148	110	85.2	70.4	53.4	37.6	28.5	24.0	20.6	13.8
1.70	306	250	207	174	144	108	83.5	69.2	52.6	36.8	28.3	23.7	20.5	13.7
1.75	288	240	196	166	138	103	81.0	67.0	51.3	35.8	27.7	23.5	20.2	13.6
1.80	268	226	185	158	130	99.0	77.7	64.6	49.6	34.3	26.8	22.8	19.8	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	4	5	6	10
1.60	588	524	426	367	316	237	190	148	106	77.3	61.5	52.4	45.8	28.8
1.65	563	510	413	360	308	232	184	144	104	75.0	60.5	52.0	45.2	28.4
1.67	542	490	398	353	304	227	180	140	101	73.5	59.6	50.3	44.0	27.8
1.70	522	474	384	340	296	223	177	137	100	71.8	58.8	49.8	43.7	27.4
1.75	500	457	370	328	288	218	172	133	98.0	70.7	58.2	48.8	42.7	26.8
1.80	476	437	354	317	277	212	165	130	95.2	69.4	56.8	47.4	41.6	26.0

Performance Curve


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