

# 5GVRLA

5GVRLA9 12V9Ah

5GVRLA series battery uses AGM technology and high-purity raw materials. Its good floating back up and large current discharge performance makes it optimal and economical choice for UPS/EPS.

### Benefits

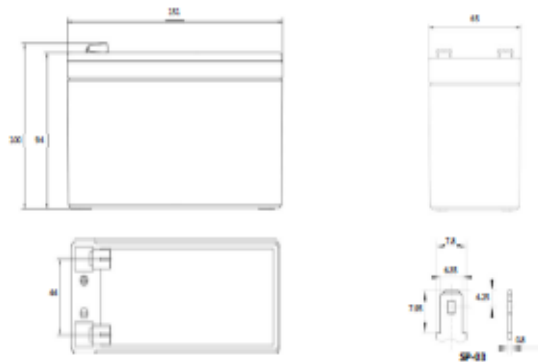
### Applications

- UPS units
- Emergency power
- Starting generators
- EPS units

### Standards

- IEC 61056-1/2
- JIS C8702-1/2
- EUROBAT guide

### Drawing



### Specifications

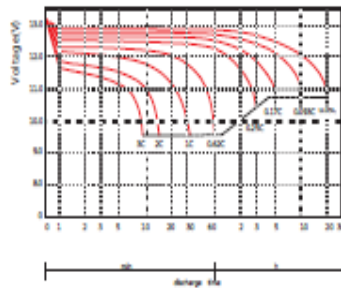
Battery Model	5GVRLA9			
Design Life (years, 25°C)	5			
Capacity (Ah, 25°C)	20HR (0.45A, 1.75V)	10HR (0.82A, 1.75V)	5HR (1.44A, 1.75V)	1HR(5.314A, 1.70V)
	9	8.2	7.2	5.314
Dimensions (mm)	Length	Width	Height	Total Height
	151	65	94	100
Approx. Weight (kg)	2.70			
Reference Internal Resistance (mK)	14.5 ( full charged @ 25°C)			
Maximum Discharge Current (A/5 Sec.)	135			
Self-Discharge (25°C)	≤3% per month			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.45 (-3.5mV/°C/cell), max charge current: 2.7 A		2.27 (-3.5mV/°C/cell)	
Short Circuit Current (A)	230			

## Discharge Data

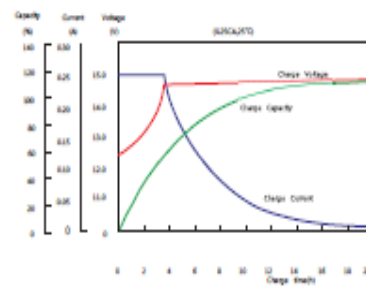
Constant Current Discharge Data (25°C, A)													
End Voltage (V/cell)	min						h						
	5	10	15	20	30	45	1	1.5	2	3	5	10	20
1.60	43.92	25.22	17.33	13.44	9.722	6.765	5.444	3.883	3.108	2.303	1.471	0.840	0.458
1.65	42.57	24.59	16.96	13.19	9.558	6.656	5.372	3.834	3.072	2.274	1.464	0.835	0.456
1.67	42.12	24.41	16.84	13.12	9.503	6.605	5.346	3.812	3.057	2.265	1.460	0.830	0.454
1.70	41.67	24.23	16.73	13.00	9.430	6.573	5.314	3.797	3.042	2.254	1.453	0.825	0.452
1.75	37.44	22.56	15.84	12.48	9.120	6.400	5.200	3.733	3.000	2.232	1.440	0.820	0.450
1.80	33.32	20.64	14.78	11.82	8.755	6.189	5.080	3.670	2.958	2.205	1.424	0.810	0.445

Constant Power Discharge Data (25°C, W/cell)													
End Voltage (V/cell)	min						h						
	5	10	15	20	30	45	1	1.5	2	3	5	10	20
1.60	80.00	47.45	32.97	25.83	18.83	13.19	10.676	7.643	6.142	4.566	2.926	1.674	0.916
1.65	77.90	46.43	32.38	25.42	18.55	13.01	10.564	7.571	6.086	4.518	2.917	1.668	0.913
1.67	77.35	46.26	32.21	25.32	18.48	12.94	10.52	7.536	6.063	4.506	2.912	1.659	0.909
1.70	76.76	46.02	32.05	25.13	18.37	12.90	10.476	7.514	6.038	4.488	2.901	1.651	0.906
1.75	69.33	43.01	30.45	24.20	17.81	12.59	10.270	7.405	5.967	4.452	2.881	1.644	0.904
1.80	62.20	39.53	28.55	22.99	17.15	12.197	10.065	7.296	5.898	4.406	2.855	1.627	0.895

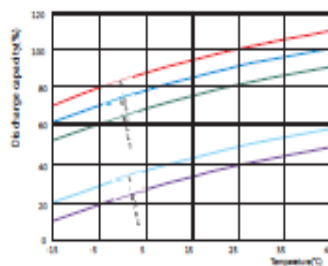
## Performance Curve



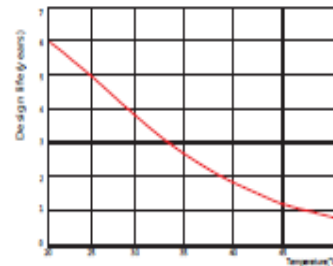
Discharge voltage vs. discharge time



Charge capacity vs. charge time



Discharge capacity vs. temperature



Design life vs. temperature