



PL9-12 (12V9AH)

Valve Regulated Lead Acid Battery(VRLA)

Type

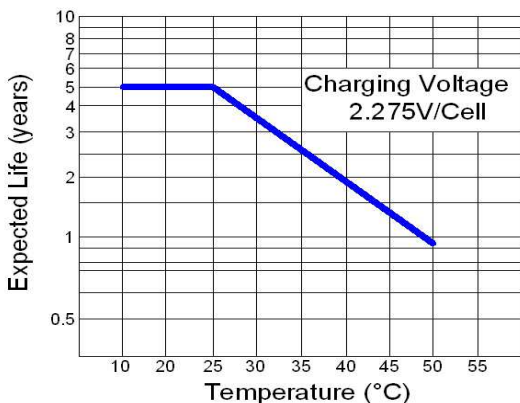
Rated Voltage	12V	
Rated Capacity	9AH/20HR	
Dimension	Length	151±1mm(5.95in)
	Width	65±1mm(2.56in)
	Height	94±1mm(3.70in)
	Total Height	100±1mm(3.94in)
Weight	2.47kg(5.434Pounds)	
Container Material	ABS,UL 94V-0 Resist acid, resist oil, resist vibration	Index of oxygen L.O.I>28%
Type of electrolyte	AGM Non-spillable	



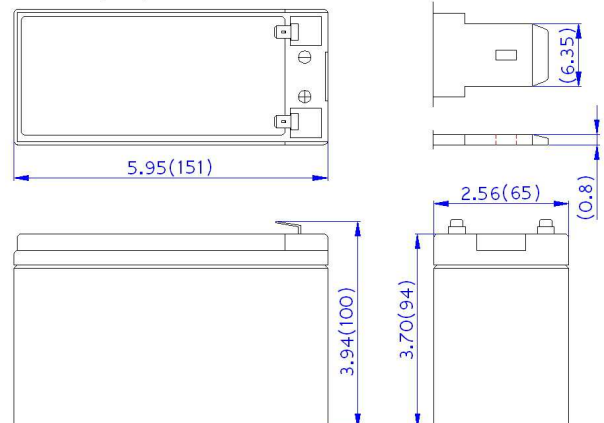
Properties

Capacity 25°C(77°F)	20HR of 0.45A to 10.5V	9.00AH
	5HR of 1.46A to 10.5V	7.30AH
	1HR of 5.85A to 10.5V	5.85AH
	0.5HR of 9.45A to 10.5V	4.73AH
Internal Resistance	Full Charge 25°C(77°F)	Approx.16mΩ
The capacity will be effected by temperature	40°C(104°F)	105%(20HR to 9.45AH)
	25°C(77°F)	100%(20HR to 9.00AH)
	0°C(32°F)	85%(20HR to 7.65AH)
	-20°C(-4°F)	60%(20HR to 5.40AH)
Self-discharge 25°C(77°F)	1 months, 97% left	6 months, 85% left
	3 months, 91% left	12 months, 64% left
Max Discharge Current		90.0A(10CA)
Max Short Duration Discharge Current		135.0A(15CA)
Float Charging	Voltage	13.65±0.15V 25°C(77°F)
	Current	2.70A(0.3CA)
Cyclic Charging	Voltage	14.70±0.30V 25°C(77°F)
	Current	2.25A(0.25CA)
Operation Temperature Range	Charge:-10~40°C(14~104°F) · Discharge:-20~50°C(-4~122°F)	
Expected Life	25°C(77°F)5years	

ACCELERATED LIFE CHARACTERISTIC



Unit:Inch(mm)

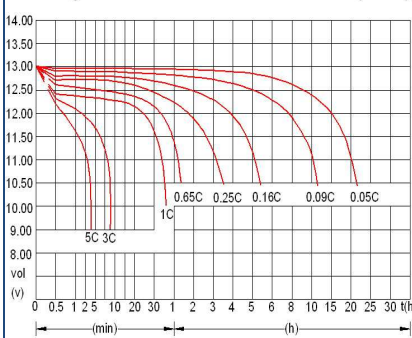


PL9-12 PROPERTIES

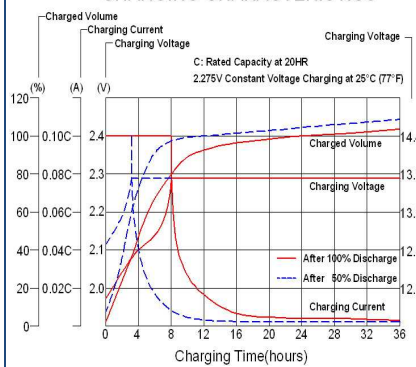
Amperes and watts per battery at 25°C (77°F)

F.V.	Time	Minutes										Hours							
	Item	1	5	10	15	20	25	30	35	40	45	1	2	3	4	5	8	10	20
1.60 (9.60)	A	42.84	27.18	20.07	16.29	14.31	11.97	10.71	9.72	9.00	8.19	6.30	3.60	2.52	1.98	1.60	1.05	0.92	0.50
	W	450	285	211	179	157	138	123	112	104	94	72.5	42.1	29.5	23.2	19.2	12.6	11.0	6.0
1.65 (9.90)	A	37.71	24.93	18.54	15.30	13.32	11.34	10.08	9.18	8.46	7.74	6.12	3.56	2.49	1.94	1.58	1.02	0.90	0.50
	W	396	262	195	168	147	130	116	106	97	89	70.4	41.6	29.1	22.6	19.0	12.3	10.8	5.9
1.70 (10.20)	A	34.20	23.94	17.19	14.40	12.51	10.80	9.72	8.82	8.01	7.56	5.94	3.47	2.43	1.87	1.55	1.00	0.85	0.47
	W	359	251	180	158	138	124	112	101	92	87	68.3	40.5	28.4	21.8	18.6	12.0	10.2	5.6
1.75 (10.50)	A	29.97	22.68	15.75	13.41	11.88	10.35	9.45	8.46	7.74	7.20	5.85	3.29	2.28	1.78	1.46	0.98	0.81	0.45
	W	315	238	165	148	131	119	109	97	89	83	67.3	38.4	26.7	20.8	17.5	11.7	9.7	5.4
1.80 (10.80)	A	26.55	20.52	14.31	12.24	10.89	9.81	8.82	8.10	7.38	7.02	5.67	3.15	2.25	1.73	1.42	0.95	0.79	0.44
	W	279	215	150	135	120	113	101	93	85	81	65.2	36.9	26.3	20.3	17.1	11.3	9.5	5.3
1.83 (10.98)	A	24.75	18.90	11.34	10.53	9.09	8.37	7.83	7.02	6.30	6.03	5.40	3.11	2.13	1.64	1.33	0.92	0.74	0.41
	W	260	198	119	116	100	96	90	81	72	69	62.1	36.3	24.9	19.2	16.0	11.1	8.9	5.0

Discharge characteristic at different rates(25°C)



CHARGING CHARACTERISTICS



Application:

- ☆ Broadcast television systems
- ☆ Telecom and UPS systems
- ☆ Communication back-up systems
- ☆ Solar storage power systems
- ☆ Power systems
- ☆ Forklift, elevator systems
- ☆ Emergency lighting
- ☆ Fire and security systems
- ☆ Camcorders

Stabilities:

- ☆ Positive, negative's plates are all Calcium-Lead alloy.
- ☆ The plastic material is fire-resistance ABS or same grade of UL 94V-0 L.O.I >28%

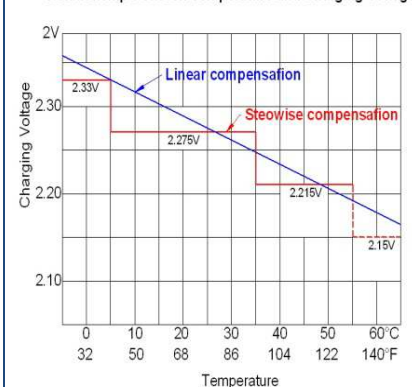
Polarities:

- ☆ The polarities adopted Antimony-Lead alloy or copper alloy covered with Lead material.

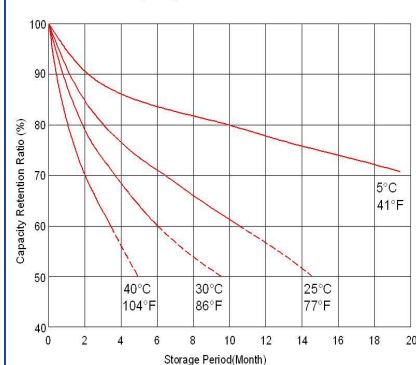
Seal construction:

- ☆ Non-spillable, no leaking danger, the gas escape rate is low, no need to replenish water, can avoid acid lack or crystallization problem during discharge, the recombination rate is high than 98%

Relationship Between Temperature and Charging Voltage



Capacity Retention Characteristic



PILOT BATTERY CO., LTD.

2 CHIN CHIANG RD. SUAO, I LAN, TAIWAN, R.O.C.

TEL:(886)-3-9901059(REP)
FAX:(886)-3-9902683
E-Mail:pilotco@ms37.hinet.net