PB SERIES-General Purpose AGM

PB12-2.9(12V2.9Ah)

Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	2.9Ah	
Dimensions	Length	79 ± 1mm
	Width	56 ± 1mm
	Container Height	99 ± 1mm
	Total Height (with Terminal)	105 ± 2mm
Approx Weight	Approx 1.1 kg	
Terminal	T1	
Container Material	ABS	
Rated Capacity	2.90 Ah/0.145A	(20hr ,1.80V/cell,25ºC)
	2.70 Ah/0.270A	(10hr,1.80V/cell,25ºC)
	2.44 Ah/0.487A	(5hr,1.75V/cell,25ºC)
	2.13 Ah/0.710A	(3hr,1.75V/cell,25ºC)
	1.76 Ah/1.76A	(1hr,1.60V/cell,25ºC)
Max. Discharge Current	43.5A (5s)	
Internal Resistance	Approx 55mΩ	
Operating Temp.Range	Discharge : -15～50ºC Charge : 0～40ºC Storage : -15～40ºC	
Nominal Operating Temp. Range	25±3ºC	
Cycle Use	Initial Charging Current less than 0.87A.Voltage 14.4V~15.0V at 25ºC Temp. Coefficient -30mV/ºC	
Standby Use	No limit on Initial Charging Current Voltage 13.5V~13.8V at 25ºC Temp. Coefficient -20mV/ºC	
Capacity affected by Temperature	40ºC	103%
	25ºC	100%
	0ºC	86%
Self Discharge	PB series batteries may be stored for up to 6 months at 25ºC and then a freshening carge is required. For higher temperatures the time will be shorter	

Applications

- *All purpose*
- *Electric Power System (EPS)*
- *Emergency backup power supply*
- *Emergency light*
- *Railway signal*
- *Aircraft signal*
- *Alarm and security system Electronic*
- *apparatus and equipment*
- *Communication power supply*
- *DC power supply*
- *Auto control system*

Intertek

ISO14001 ISO9001 CE

Constant Current Discharge (Amperes) at 25 ºC (77ºF)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	5.57	3.88	3.20	2.78	2.23	1.71	1.40	0.856	0.652	0.536	0.455	0.394	0.313	0.260	0.144
1.80V/cell	6.85	4.63	3.71	3.14	2.47	1.87	1.51	0.909	0.685	0.563	0.474	0.411	0.325	0.270	0.145
1.75V/cell	8.11	5.24	4.09	3.42	2.63	1.98	1.59	0.948	0.710	0.581	0.487	0.421	0.334	0.275	0.146
1.70V/cell	9.20	5.78	4.43	3.67	2.77	2.06	1.65	0.987	0.733	0.595	0.499	0.432	0.339	0.280	0.149
1.65V/cell	10.1	6.21	4.69	3.85	2.88	2.14	1.72	1.02	0.751	0.608	0.510	0.440	0.344	0.283	0.151
1.60V/cell	10.6	6.47	4.88	3.98	2.96	2.19	1.76	1.05	0.769	0.623	0.521	0.449	0.351	0.288	0.152

Constant Power Discharge (Watts/cell) at 25 ºC (77ºF)

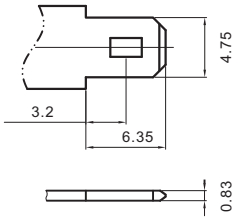
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	10.5	7.39	6.16	5.38	4.35	3.36	2.76	1.69	1.30	1.07	0.910	0.790	0.630	0.525	0.290
1.80V/cell	12.8	8.74	7.07	6.04	4.77	3.64	2.95	1.79	1.35	1.12	0.943	0.820	0.649	0.540	0.291
1.75V/cell	14.9	9.78	7.73	6.52	5.07	3.84	3.09	1.86	1.39	1.14	0.963	0.835	0.663	0.547	0.292
1.70V/cell	16.8	10.7	8.29	6.95	5.29	3.97	3.20	1.92	1.43	1.17	0.981	0.850	0.669	0.553	0.296
1.65V/cell	18.2	11.3	8.67	7.22	5.46	4.10	3.32	1.97	1.46	1.19	0.998	0.863	0.676	0.558	0.298
1.60V/cell	18.8	11.7	8.93	7.37	5.56	4.15	3.36	2.01	1.49	1.21	1.01	0.875	0.687	0.565	0.299

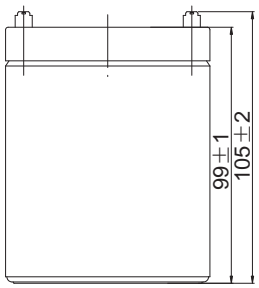
Disclaimer: Manufacturers have the right to self-modify the parametters of the updates without notice,please keep in touch with manufacturers to obtain the latest information.

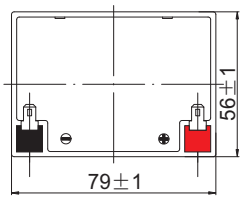
Dimensions

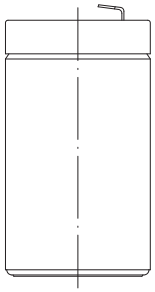
T1 Terminal

Unit: mm

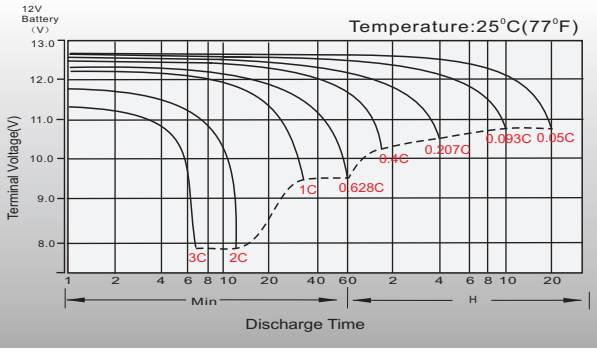




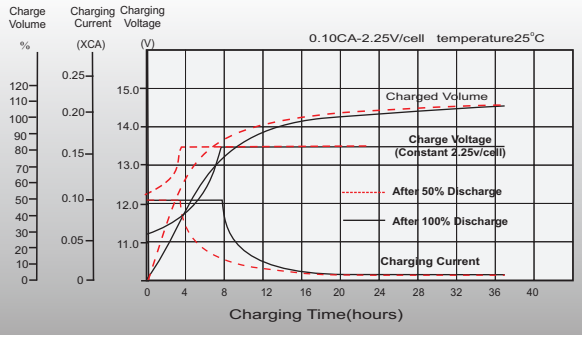




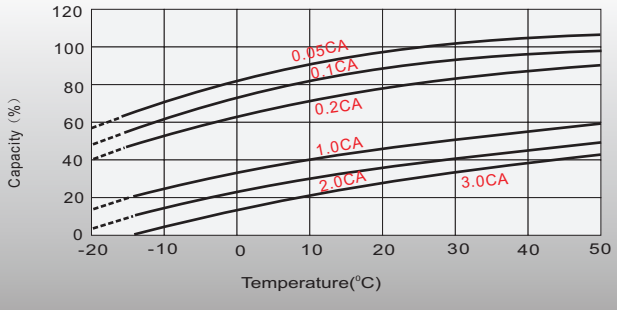
Discharge Characteristics



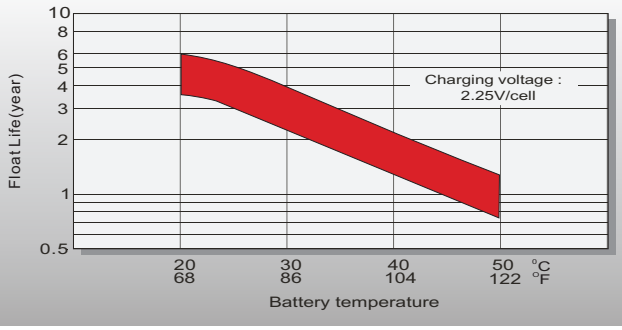
Float Charging Characteristics



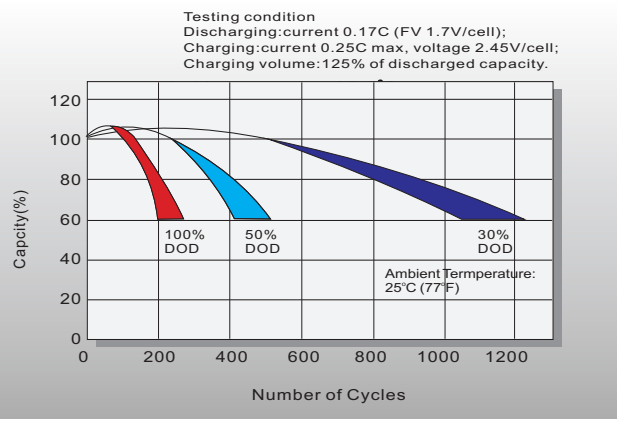
Temperature Effects in Relation to Battery Capacity



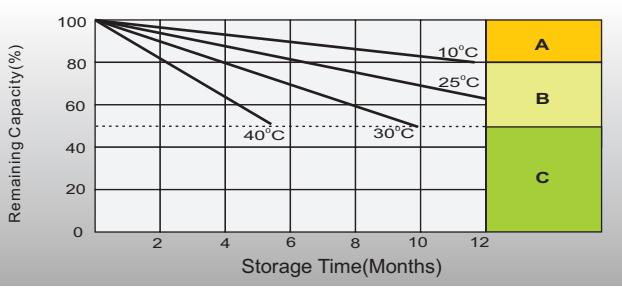
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



A No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

B Supplementary charge required before use.Optional charging way as below:
1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

C Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

Contact

www.premiumbattery.net