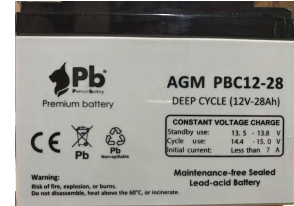


### Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	27.2Ah	
Dimensions	Length	166 ± 2mm
	Width	175 ± 2mm
	Container Height	125 ± 2mm
	Total Height (with Terminal)	125 ± 2mm
Approx Weight	Approx 8.0 kg	
Terminal	T6	
Container Material	ABS	
Rated Capacity	27.20 Ah/1.36A	(20hr, 1.80V/cell, 25°C)
	26.00 Ah/2.60A	(10hr, 1.80V/cell, 25°C)
	20.40 Ah/4.08A	(5hr, 1.75V/cell, 25°C)
	19.14 Ah/6.38A	(3hr, 1.75V/cell, 25°C)
	15.56Ah/15.56A	(1hr, 1.60V/cell, 25°C)
Max. Discharge Current	390A (5s)	
Internal Resistance	Approx 17.2mΩ	
Operating Temp. Range	Discharge	-15 ~ 50°C
	Charge	0 ~ 40°C
	Storage	-15 ~ 40°C
Nominal Operating Temp. Range	25 ± 3° C	
Cycle Use	Initial Charging Current less than 7.8A. Voltage 14.4V~15.0V at 25°C Temp. Coefficient -30mV/°C	
	Standby Use No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40° C	103%
	25° C	100%
	0° C	86%
Self Discharge	PBC series batteries may be stored for up to 6 months at 25° C and then a freshening charge is required. For higher temperatures the time interval will be shorter.	
Design Life & Approvals	EUROBAT Classification: Long Life 10-12 PB design life at 20° C ( years ) up to 10	



### Applications

- ◆ All purpose
- ◆ Uninterruptable Power Supply (UPS)
- ◆ 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



### Constant Current Discharge (Amperes) at 25 °C (77 °F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	24.23	19.38	14.79	11.99	7.65	5.87	4.85	3.83	3.32	2.81	2.42	1.31
1.80V/cell	28.82	22.70	16.07	13.52	8.16	6.12	5.10	3.95	3.57	2.93	2.60	1.36
1.75V/cell	31.11	23.72	17.09	14.03	8.42	6.38	5.36	4.08	3.70	3.06	2.63	1.42
1.70V/cell	32.64	24.74	18.11	14.54	8.67	6.63	5.56	4.34	3.83	3.19	2.73	1.47
1.65V/cell	34.43	25.50	18.87	15.05	9.18	6.89	5.74	4.59	3.95	3.32	2.83	1.53
1.60V/cell	35.70	26.78	19.64	15.56	9.69	7.14	5.99	4.85	4.21	3.57	2.93	1.58

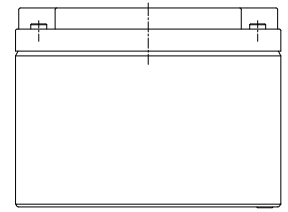
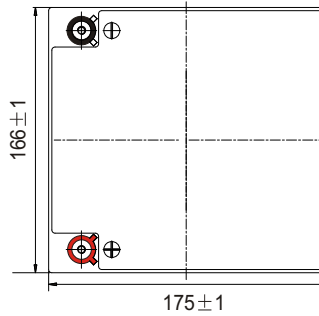
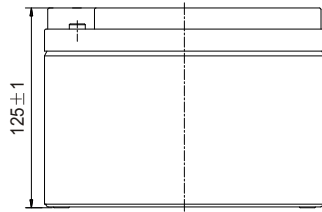
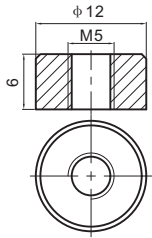
### Constant Power Discharge (Watts/cell) at 25 °C (77 °F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	44.82	35.85	27.36	22.17	14.15	10.85	8.96	7.08	6.13	5.19	4.48	2.42
1.80V/cell	51.87	40.85	28.92	24.33	14.69	11.02	9.18	7.11	6.43	5.28	4.68	2.46
1.75V/cell	54.44	41.50	29.90	24.54	14.73	11.16	9.37	7.14	6.47	5.36	4.60	2.48
1.70V/cell	55.49	42.05	30.78	24.71	14.74	11.27	9.45	7.37	6.50	5.42	4.64	2.50
1.65V/cell	56.80	42.08	31.14	24.82	15.15	11.36	9.47	7.57	6.52	5.47	4.67	2.52
1.60V/cell	57.12	42.84	31.42	24.89	15.50	11.42	9.59	7.75	6.73	5.71	4.69	2.53

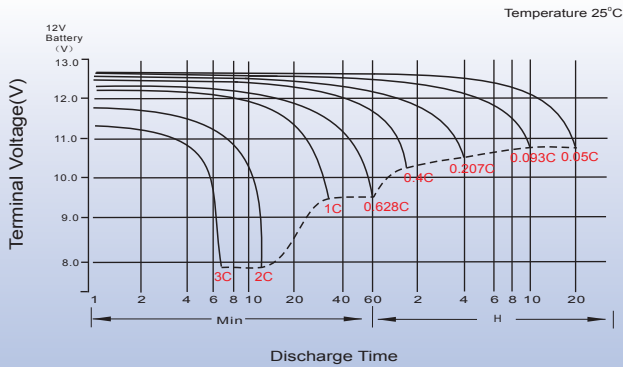
## Dimensions

### T12 Terminal

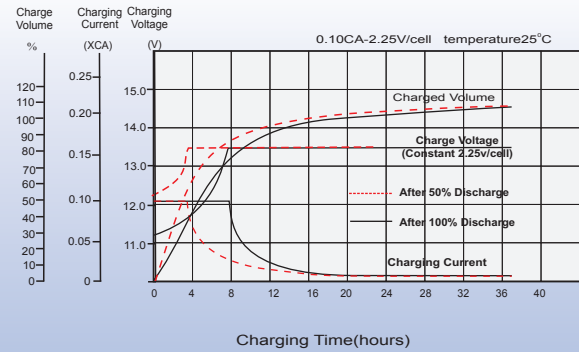
Unit: mm



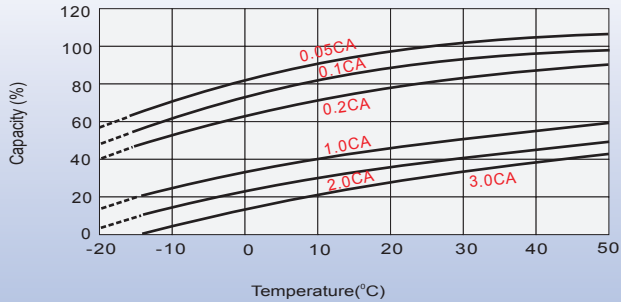
## Discharge Characteristics



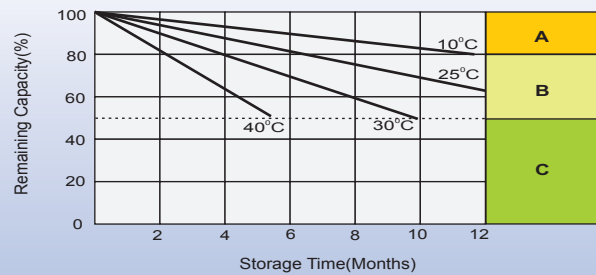
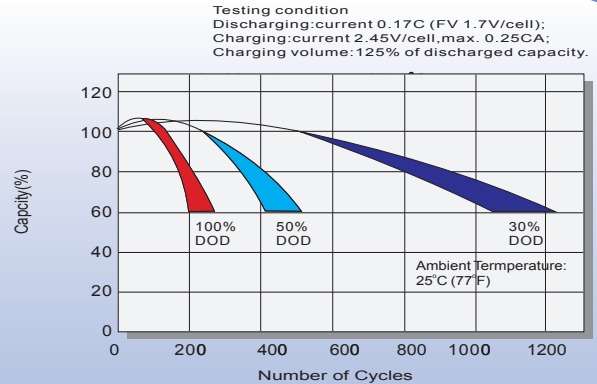
## Float Charging Characteristics



## Temperature Effects in Relation to Battery Capacity



## 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 limited current 0.25CA and constant volatge 2.25V/cell.
  2. Charged for above 20hours at limited current 0.25CA and constant volatge 2.45V/cell.
  3. Charged for 8~10hours at limited 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