

Specification

Nominal Voltage	12V	
Nominal Capacity(10HR)	120.0Ah	
Dimension	Length	408 ± 3mm
	Width	177 ± 2mm
	Container Height	225 ± 3mm
	Total Height (with Terminal)	225 ± 3mm
Approx Weight	Approx 36.0 Kg	
Terminal	T11	
Container Material	ABS	
Rated Capacity	128.0 Ah/6.4A	(20hr, 1.80V/cell, 25°C)
	120.0 Ah/12.0A	(10hr, 1.80V/cell, 25°C)
	96.0 Ah/19.2A	(5hr, 1.75V/cell, 25°C)
	90.0 Ah/30.0A	(3hr, 1.75V/cell, 25°C)
	73.2 Ah/73.2A	(1hr, 1.60V/cell, 25°C)
Max. Discharge Current	1300A (5s)	
Internal Resistance	Approx 4.0mΩ	
Operating Temp. Range	Discharge	-15 ~ 50°C
	Charge	0 ~ 40°C
	Storage	-15 ~ 40°C
Nominal Operating Temp.	25 ± 3° C	
Range Cycle Use	Initial Charging Current less than 36.0A. 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.	



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	114.0	91.2	69.6	56.4	36.0	27.6	22.8	18.0	15.6	13.2	11.4	6.2
1.80V/cell	135.6	106.8	75.6	63.6	38.4	28.8	24.0	18.6	16.8	14.9	12.0	6.4
1.75V/cell	146.4	111.6	80.4	66.0	39.6	30.0	25.2	19.2	17.4	15.6	12.4	6.7
1.70V/cell	153.6	116.4	85.2	68.4	40.8	31.2	26.2	20.4	18.0	17.4	12.8	6.9
1.65V/cell	162.0	120.0	88.8	70.8	43.2	32.4	27.0	21.6	18.6	18.0	13.3	7.2
1.60V/cell	168.0	126.0	92.4	73.2	45.6	33.6	28.2	22.8	19.8	19.2	13.8	7.4

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	210.9	168.7	128.8	104.3	66.6	51.1	42.2	33.3	28.9	24.4	21.1	11.4
1.80V/cell	244.1	192.2	136.1	114.5	69.1	51.8	43.2	33.5	30.2	26.8	21.6	11.6
1.75V/cell	256.2	195.3	140.7	115.5	69.3	52.5	44.1	33.6	30.5	27.3	21.6	11.7
1.70V/cell	261.1	197.9	144.8	116.3	69.4	53.0	44.5	34.7	30.6	29.6	21.8	11.8
1.65V/cell	267.3	198.0	146.5	116.8	71.3	53.5	44.6	35.6	30.7	29.7	22.0	11.9
1.60V/cell	268.8	201.6	147.8	117.1	73.0	53.8	45.1	36.5	31.7	30.7	22.1	11.9

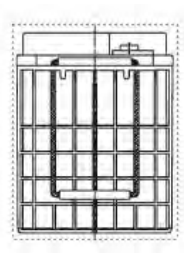
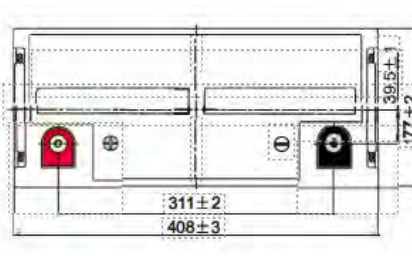
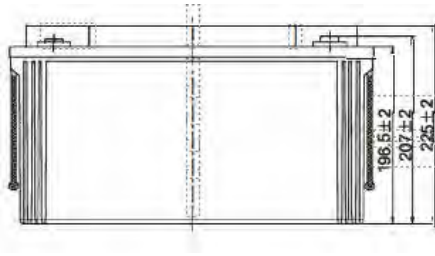
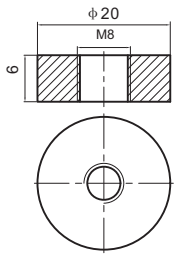
Specifications subject to change without notice.



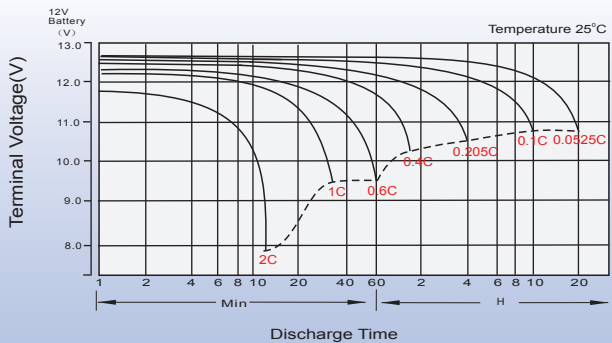
Dimensions

T11 Terminal

Unit: mm

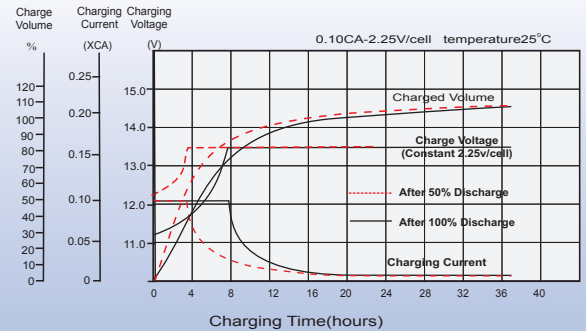


Discharge Characteristics

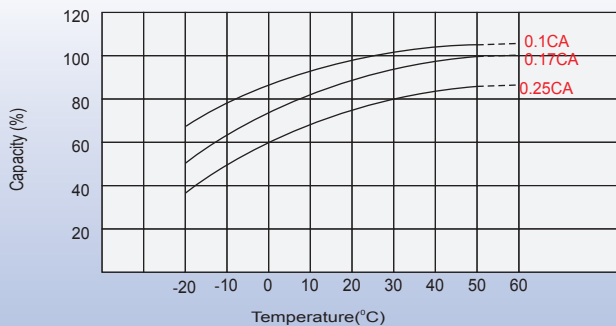


Charging Characteristics (cycle use)

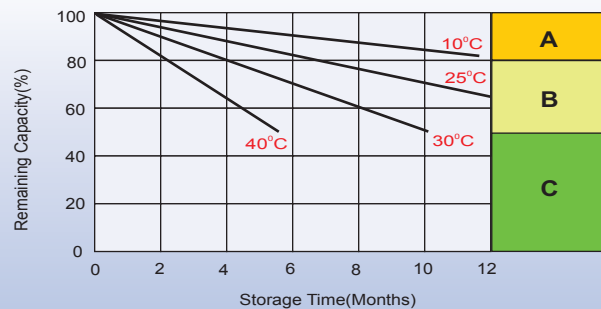
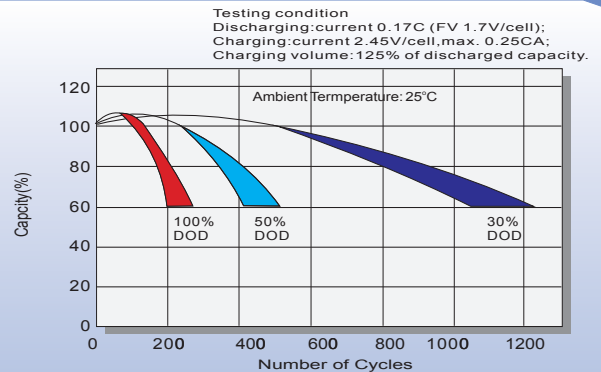
Charging Characteristics



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