

Specification

Nominal Voltage	12V		
Nominal Capacity(20hr)	14Ah		
Dimensions	Length	152 ±1mm	
	Width	99 ±1mm	
	Container Height	96 ±1mm	
	Total Height (with Terminal)	102 ±1mm	
Approx Weight	Approx 3.8 kg		
Terminal	T1		
Container Material	ABS		
Rated Capacity	14.0 Ah/0.70A	(20hr, 1.80V/cell, 25°C)	
	12.6 Ah/1.26A	(10hr, 1.80V/cell, 25°C)	
	12.0 Ah/2.30A	(5hr, 1.75V/cell, 25°C)	
	8.5 Ah/8.5A	(1hr, 1.60V/cell, 25°C)	
Max. Discharge Current	195A (5s)		
Internal Resistance	Approx 15mΩ		
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 3.6A. 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	102%	
	25°C	100%	
	0°C	85%	
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

- ◆ Electric tools
- ◆ Vehicle in place of walking
- ◆ Lawn mowers
- ◆ Golf trolleys and golf cart
- ◆ Portable apparatus, lights and instruments;
- ◆ Electric toys
- ◆ Illumination light
- ◆ Fire alarms
- ◆ Portable power
- ◆ Wheelchairs
- ◆ Medical equipments.



Constant Current Discharge (Amperes) at 25°C

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.80V/cell	42.0	28.0	21.1	14.0	9.8	7.7	4.8	3.6	2.2	1.6	1.26	0.70
1.75V/cell	43.7	29.1	21.9	14.6	10.2	8.0	5.0	3.7	2.3	1.7	1.31	0.73
1.70V/cell	44.5	29.7	22.3	14.8	10.4	8.2	5.0	3.8	2.4	1.7	1.34	0.74
1.65V/cell	45.4	30.2	22.8	15.1	10.6	8.3	5.1	3.9	2.4	1.7	1.36	0.76
1.60V/cell	46.2	30.8	23.2	15.4	10.8	8.5	5.2	4.0	2.5	1.8	1.39	0.77

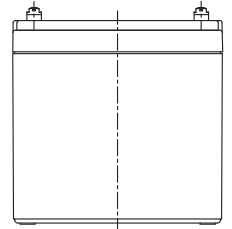
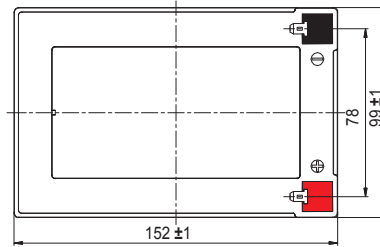
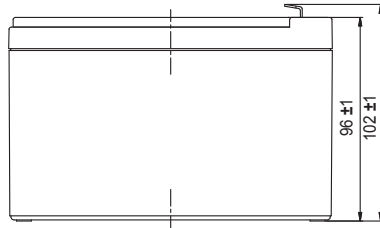
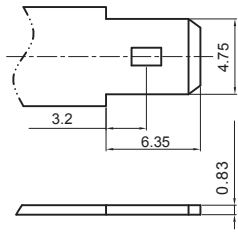
Constant Power Discharge (Watts/cell) at 25°C

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.80V/cell	80.9	53.9	40.6	27.0	18.9	14.8	9.2	6.9	4.4	3.1	2.4	1.3
1.75V/cell	84.1	56.1	42.2	28.0	19.6	15.4	9.5	7.2	4.5	3.2	2.5	1.4
1.70V/cell	85.7	57.1	43.0	28.6	20.0	15.7	9.7	7.3	4.6	3.3	2.6	1.4
1.65V/cell	87.3	58.2	43.8	29.1	20.4	16.0	9.9	7.5	4.7	3.4	2.6	1.5
1.60V/cell	88.9	59.3	44.6	29.6	20.8	16.3	10.1	7.6	4.8	3.4	2.7	1.5

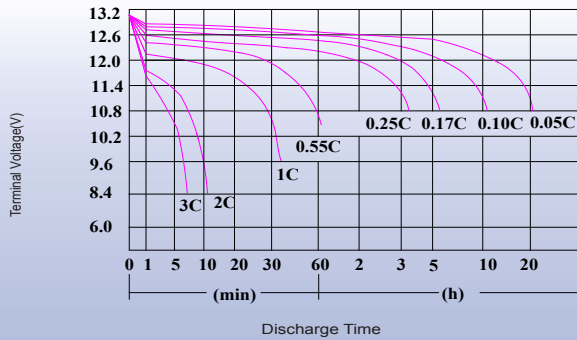
Dimensions

T1 Terminal

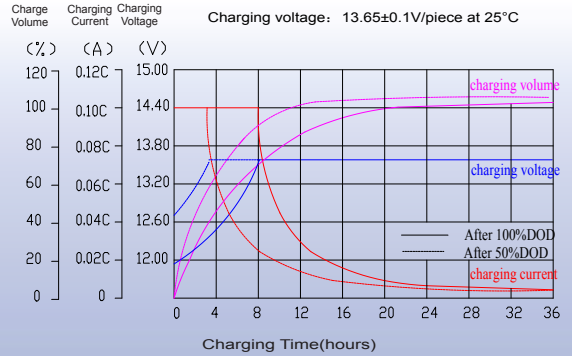
Unit: mm



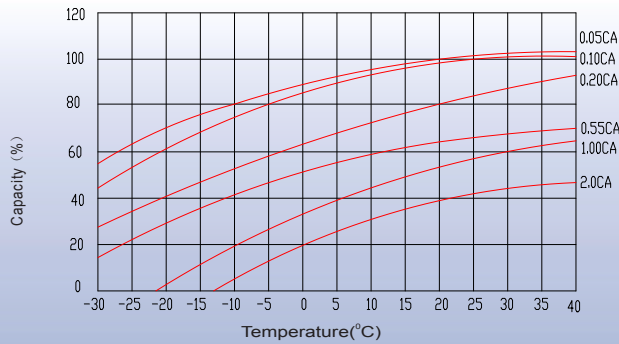
Discharge Characteristics



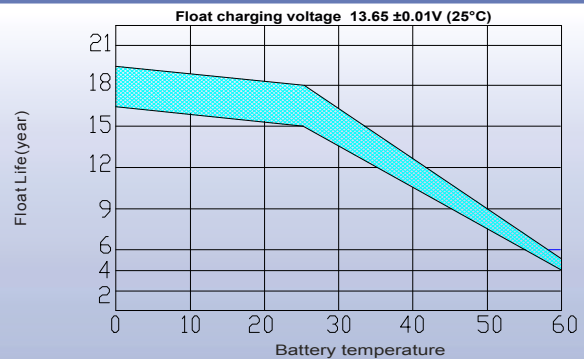
Float Charging Characteristics



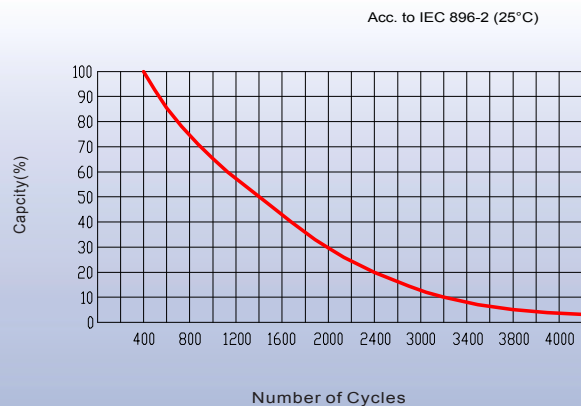
Temperature Effects in Relation to Battery Capacity



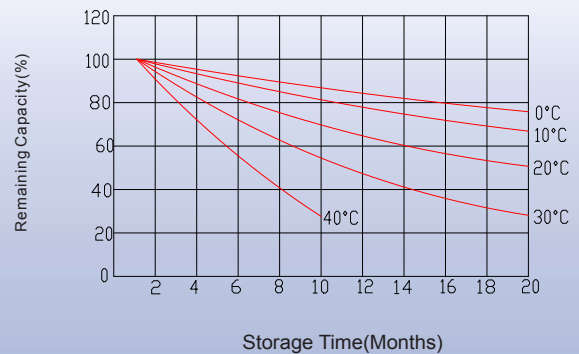
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



Contact