

PBX SERIES-High Rate / UPS

PBX12-6.5 (12V6.5Ah) 18.7W

Specification

Nominal Voltage	12V	
Watts(15min Rate)	18.7 Watts	
Dimension	Length	151 ± 2mm
	Width	53 ± 1mm
	Container Height	93 ± 1mm
	Total Height (with Terminal)	99 ± 1mm
Approx Weight	Approx 1.9 kg	
Terminal	T1	
Container Material	ABS	
Rated Capacity	6.50 Ah/0.325A	(20hr, 1.80V/cell, 25°C)
	6.00 Ah/0.600A	(10hr, 1.80V/cell, 25°C)
	5.20 Ah/1.040A	(5hr, 1.75V/cell, 25°C)
	4.89 Ah/1.630A	(3hr, 1.75V/cell, 25°C)
	3.97 Ah/3.97A	(1hr, 1.60V/cell, 25°C)
Max. Discharge Current	78A (5s)	
Internal Resistance	Approx 42mΩ	
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 1.5A. 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	PBX 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

- ◆ UPS (High rate)
- ◆ High power backup supply
- ◆ Emergency power supply
- ◆ Starting system
- ◆ Power tools
- ◆ Emergency lighting
- ◆ Electric starting



Constant Current Discharge (Amperes) at 25°C

F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	7.15	6.18	4.94	3.77	3.06	1.95	1.50	1.24	0.98	0.85	0.72	0.57	0.31
1.80V/cell	9.10	7.35	5.79	4.10	3.45	2.08	1.56	1.30	1.01	0.91	0.81	0.60	0.33
1.75V/cell	9.75	7.93	6.05	4.36	3.58	2.15	1.63	1.37	1.04	0.94	0.85	0.62	0.34
1.70V/cell	10.40	8.32	6.31	4.62	3.71	2.21	1.69	1.42	1.11	0.98	0.94	0.65	0.35
1.67V/cell	11.05	8.78	6.50	4.81	3.84	2.34	1.76	1.46	1.17	1.01	0.98	0.67	0.36
1.60V/cell	11.70	9.10	6.83	5.01	3.97	2.47	1.82	1.53	1.24	1.07	1.04	0.70	0.38

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

F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	11.23	11.42	9.14	6.97	5.65	3.61	2.77	2.28	1.80	1.56	1.32	1.06	0.58
1.80V/cell	16.38	13.22	10.41	7.37	6.20	3.74	2.81	2.34	1.81	1.64	1.45	1.09	0.59
1.75V/cell	17.06	13.88	10.58	7.62	6.26	3.75	2.84	2.39	1.82	1.65	1.48	1.09	0.59
1.70V/cell	17.68	14.14	10.72	7.85	6.30	3.76	2.87	2.41	1.88	1.66	1.60	1.10	0.60
1.67V/cell	18.23	14.48	10.73	7.94	6.33	3.86	2.90	2.41	1.93	1.66	1.61	1.11	0.60
1.60V/cell	18.72	14.56	10.92	8.01	6.34	3.95	2.91	2.44	1.98	1.72	1.66	1.11	0.60

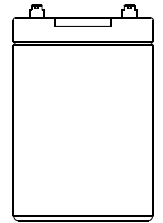
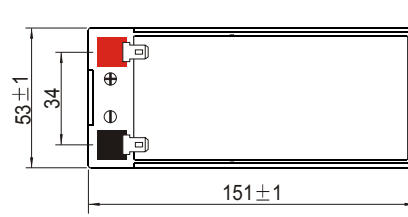
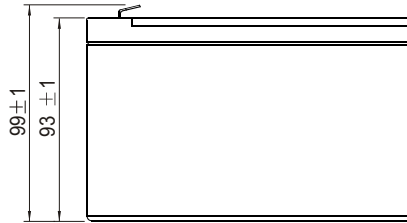
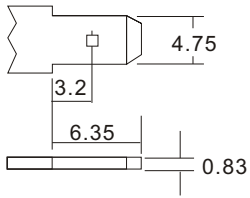
Specifications subject to change without notice.



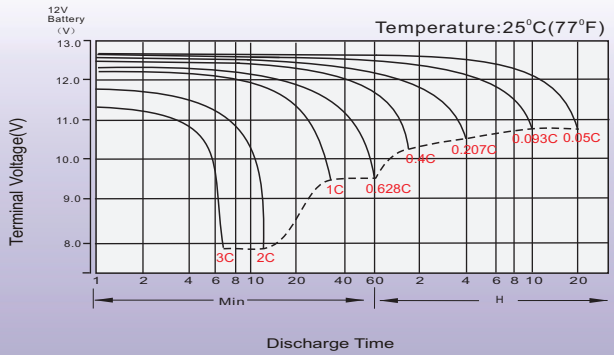
Dimensions

T1 Terminal

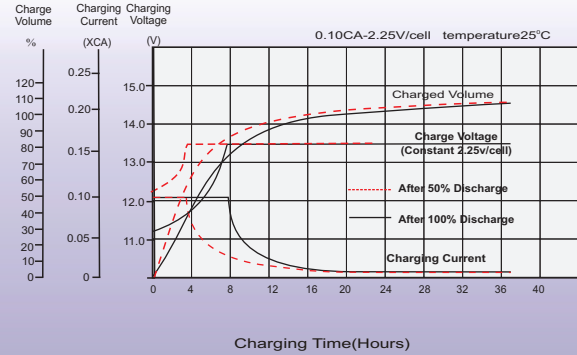
Unit: mm



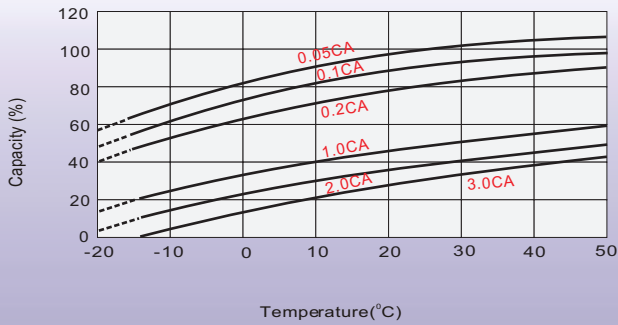
Discharge Characteristics



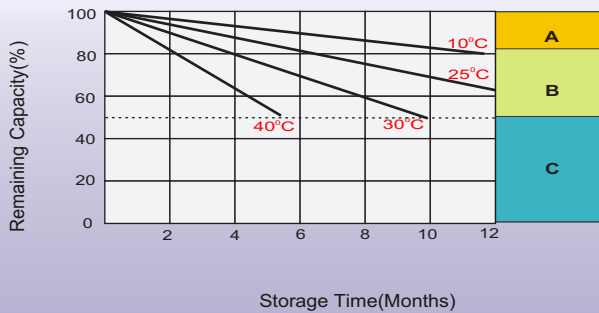
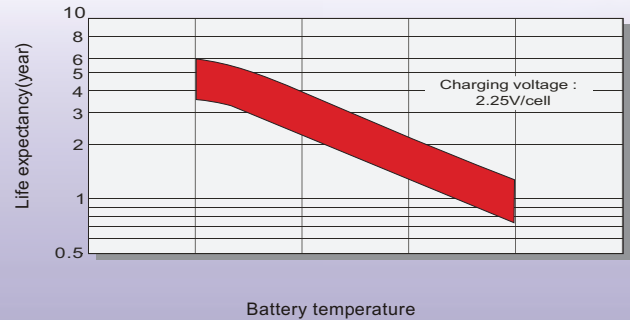
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics

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

Supplementary charge required before use. Optional charging way as below:

- B**
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