

Specification

Nominal Voltage	12V		
Nominal Capacity(10HR)	80.0AH		
Dimensions	Length		260 ±3mm
	Width		168 ±2mm
	Container Height		208 ±3mm
	Total Height (with Terminal)		214 ±3mm
Approx Weight	Approx 23.8 kg (52.5lbs)		
Terminal	T6		
Container Material	ABS		
Rated Capacity	82.4 AH/4.12A	(20hr , 1.80V/cell,25°C/77°F)	
	80.0 AH/8.0A	(10hr, 1.80V/cell,25°C/77°F)	
	68.0 AH/13.6A	(5hr, 1.75V/cell,25°C/77°F)	
	59.1 AH/19.7A	(3hr, 1.75V/cell,25°C/77°F)	
	47.8 AH/47.8A	(1hr, 1.60V/cell,25°C/77°F)	
Max. Discharge Current	960A (5s)		
Internal Resistance	Approx 6mΩ		
Operating Temp.Range	Discharge : -15~50°C (5~122°F)		
	Charge : 0~40°C (32~104°F)		
	Storage : -15~40°C (5~104°F)		
Nominal Operating Temp. Range	25±3°C (77±5°F)		
Cycle Use	Initial Charging Current less than 24.0A.Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C		
Standby Use	No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C		
Capacity affected by Temperature	40°C (104°F)		103%
	25°C (77°F)		100%
	0°C (32°F)		86%
Self Discharge	PBCG series batteries may be stored for up to 9 months at 25°C(77°F) 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	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	129.0	101.4	86.2	72.1	57.0	43.3	35.8	22.8	17.7	14.5	12.4	10.8	8.76	7.42	4.00
1.80V/cell	170.6	127.7	102.7	84.0	65.6	49.1	39.8	24.7	19.0	15.5	13.3	11.5	9.34	8.00	4.12
1.75V/cell	196.3	143.2	114.5	92.2	69.9	52.0	42.1	25.9	19.7	16.0	13.6	11.9	9.50	8.08	4.16
1.70V/cell	218.7	157.9	123.6	98.1	73.8	54.6	44.0	27.2	20.4	16.5	14.0	12.1	9.63	8.12	4.24
1.65V/cell	238.9	168.8	130.2	103.2	77.2	56.2	45.6	28.0	21.1	17.0	14.3	12.4	9.78	8.20	4.28
1.60V/cell	265.6	184.7	140.4	110.8	82.1	59.4	47.8	29.0	21.9	17.4	14.6	12.7	9.90	8.34	4.32

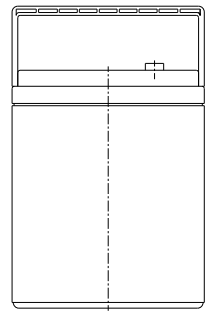
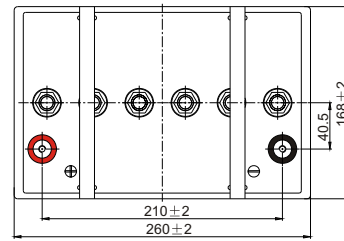
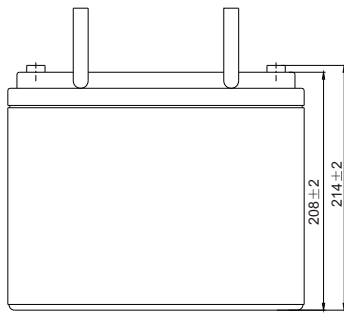
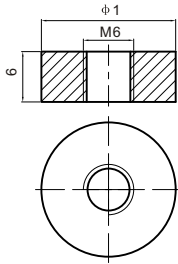
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	237.6	188.7	162.1	137.0	109.2	83.6	69.4	44.4	34.6	28.5	24.3	21.2	17.4	14.7	7.95
1.80V/cell	311.2	235.1	190.6	157.4	124.1	94.1	76.8	47.9	37.0	30.2	26.0	22.7	18.5	15.9	8.18
1.75V/cell	350.3	259.2	209.7	171.0	131.2	98.7	80.8	50.1	38.2	31.1	26.6	23.3	18.7	16.0	8.25
1.70V/cell	378.8	278.9	223.0	180.2	137.4	103.1	84.0	52.4	39.4	32.0	27.2	23.7	19.0	16.1	8.40
1.65V/cell	407.0	294.7	232.6	187.8	142.6	105.3	86.5	53.5	40.7	32.8	27.8	24.2	19.2	16.2	8.47
1.60V/cell	442.1	315.2	246.6	199.4	150.3	110.7	90.1	55.2	41.9	33.5	28.2	24.6	19.4	16.4	8.54

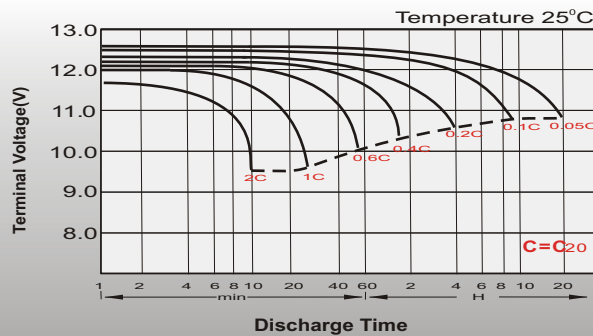
Dimensions

T6 Terminal

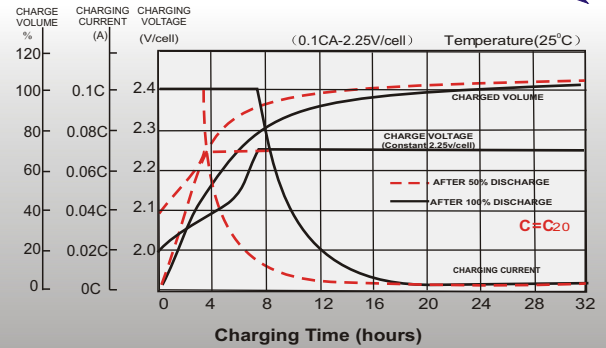
Unit: mm



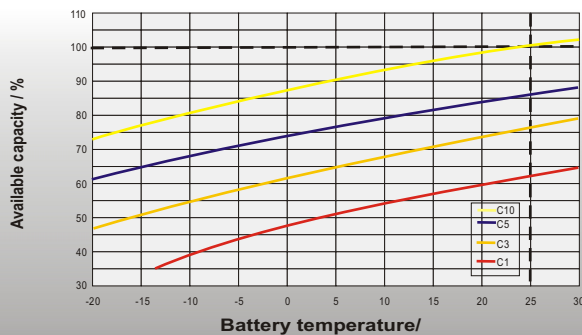
Discharge Characteristics



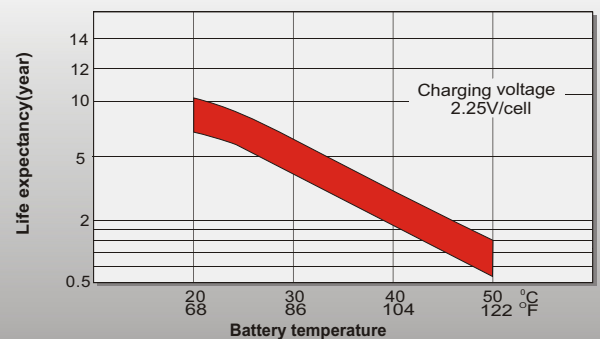
Float Charging Characteristics



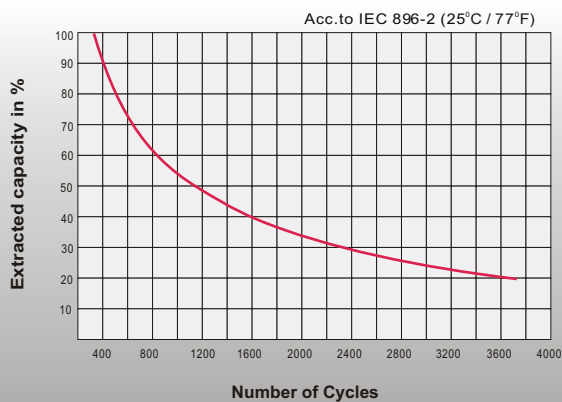
Temperature Effects in Relation to Battery Capacity



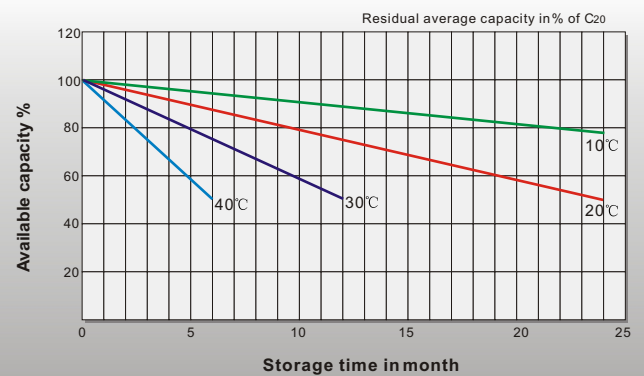
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time



Contact