



# Valve Regulated Lead-Acid Rechargeable Battery



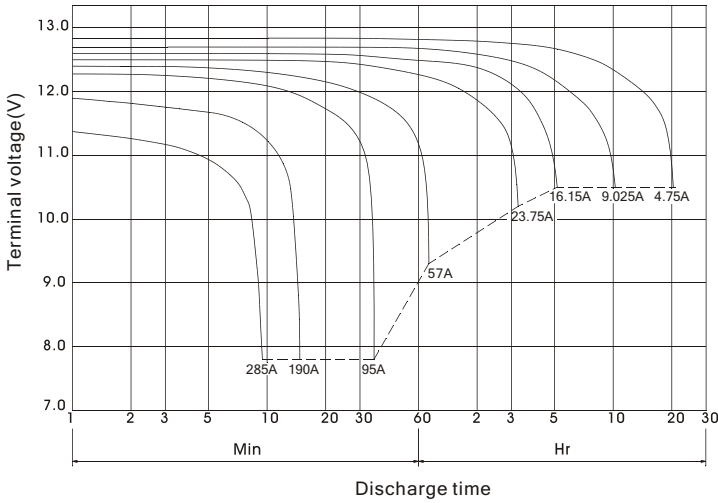
## BPL95-12

The battery is constructed by plates, separators, safety valves, flame arrestors and container. Since the electrolyte is held by a glass-mat separator and plates, the battery can be used in any direction and position without leakage.

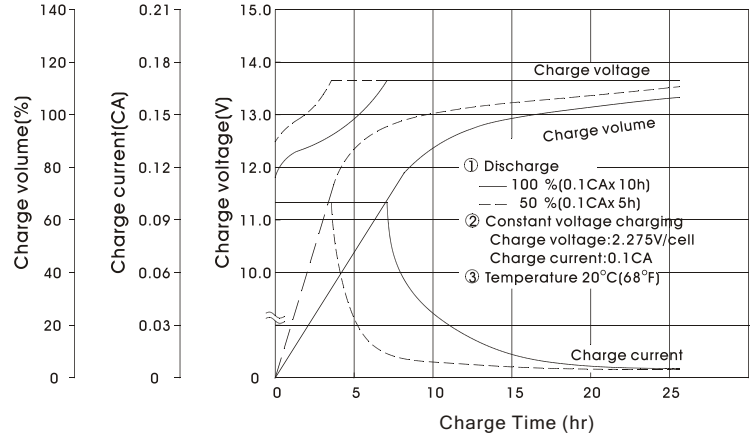
### PERFORMANCE SPECIFICATIONS

Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(AH)	
20 Hour rate F.V.(1.75V/cell) (4.75A to 10.50volts) .....	95.0Ah
10 Hour rate F.V.(1.75V/cell) (9.03A to 10.50volts) .....	90.3Ah
5 Hour rate F.V.(1.75V/cell) (16.15A to 10.50volts) .....	80.8Ah
1 Hour rate F.V.(1.55V/cell) (57.00A to 9.30volts) .....	57.0Ah
Approximate Weight.....	33.2kg(73.2lbs.)
Terminal	
Standard.....	Type B3
Optional.....	Type I2
Internal Resistance (Fully Charged Battery).....	<4.5m Ω
Maximum Discharge Current For 5 sec.(A).....	950A
Maximum Charge Current(A).....	28.5A
Ambient Temperature	
Charge.....	0°C(32°F)~40°C(104°F)
Discharge.....	-20°C(-4°F)~50°C(122°F)
Storage.....	-20°C(-4°F)~40°C(104°F)
Design Life : 10 years for standby use at 20°C	
Case.....	ABS
Dimension(mm/inch)	
Length           ±2mm.....	329/12.95
Width           ±2mm.....	172/6.77
Container Height ±2mm.....	215/8.46
Total Height   ±2mm.....	238/9.37
Application.....	UPS, Telecom, Golf-carts.

## BPL95-12 Battery discharge characteristics (25 °C/77 °F)



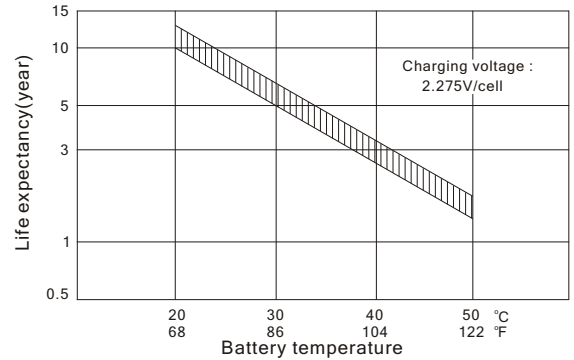
## Battery Charging Characteristics (Typical example of charge characteristic for the standby use)



### Charging Procedure

Application	Charging method	Charging Voltage at 20°C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C/cell)	Max. charging current (CA)	Charging time 0.1CA, 20°C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power source	Constant voltage & Constant current charging (with current restriction)	2.25~2.30	-3	0.3	24	20	0~40 (32~104°F)
For cycle service					16	10	

### Effect of Temperature on Long Term Float Life



### Constant power discharge characteristics at 25°C/77°F

Final Voltage VPC	Discharge time															
	5Min	7Min	10Min	15Min	20Min	30Min	45Min	1Hr	1.5Hr	2Hr	3Hr	4Hr	5Hr	8Hr	10Hr	20Hr
1.60V	4207	3580	3080	2326	1943	1304	980.0	702.8	513.6	381.1	287.2	229.7	195.4	131.4	108.92	57.30
1.65V	3956	3440	2995	2280	1909	1292	950.1	695.5	509.0	377.9	285.8	229.0	195.4	131.4	108.92	57.30
1.70V	3683	3225	2899	2228	1872	1274	937.5	686.8	503.9	374.2	284.3	228.3	194.7	131.1	108.63	57.16
1.75V	3400	3020	2734	2129	1798	1246	919.4	675.1	496.0	369.5	281.4	226.1	193.9	130.6	108.05	57.00
1.80V	3097	2761	2530	2007	1699	1201	889.6	654.7	482.3	359.9	275.6	221.9	191.0	128.6	106.44	55.70
1.85V	2763	2493	2239	1815	1580	1130	842.7	627.7	463.2	347.7	267.6	215.9	186.4	125.4	103.72	54.59
1.90V	2437	2178	1936	1619	1421	1027	770.8	578.0	428.4	325.1	251.6	205.7	176.1	118.6	98.11	51.63

### Constant current discharge characteristics at 25°C/77°F

Final Voltage VPC	Discharge time															
	5Min	7Min	10Min	15Min	20Min	30Min	45Min	1Hr	1.5Hr	2Hr	3Hr	4Hr	5Hr	8Hr	10Hr	20Hr
1.60V	412	344	284	211	175	115.4	86.3	59.1	43.0	31.8	23.9	19.1	16.3	10.95	9.08	4.78
1.65V	388	331	276	207	172	114.3	83.6	58.4	42.6	31.5	23.8	19.1	16.3	10.95	9.08	4.78
1.70V	361	310	267	203	169	112.7	82.5	57.7	42.2	31.2	23.7	19.0	16.2	10.92	9.05	4.76
1.75V	329	290	252	194	162	110.2	80.9	56.7	41.5	30.8	23.5	18.8	16.2	10.88	9.03	4.75
1.80V	296	261	230	181	153	106.3	78.3	55.0	40.4	30.0	23.0	18.5	15.9	10.72	8.87	4.64
1.85V	255	227	202	160	139	99.3	73.8	52.3	38.6	29.0	22.3	18.0	15.5	10.45	8.64	4.55
1.90V	219	196	172	141	124	89.3	67.0	48.2	35.7	27.1	21.0	17.1	14.7	9.88	8.18	4.30

**OUTER DIMENSIONS** mm(inch)

**TERMINAL TYPE** mm(inch)

- Terminal B3: 25.0(0.98) mm diameter, 7.3(0.29) mm height, 1.0(0.4) mm width, 2.8(0.98) mm distance between terminals, 7.0(0.28) mm distance from terminal to edge.
- Terminal I2: 2.0(0.08) mm diameter, M6x1.0 thread.

(M6 BOLT & NUT) [M6 BOLT]



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