



Valve Regulated Lead-Acid Rechargeable Battery



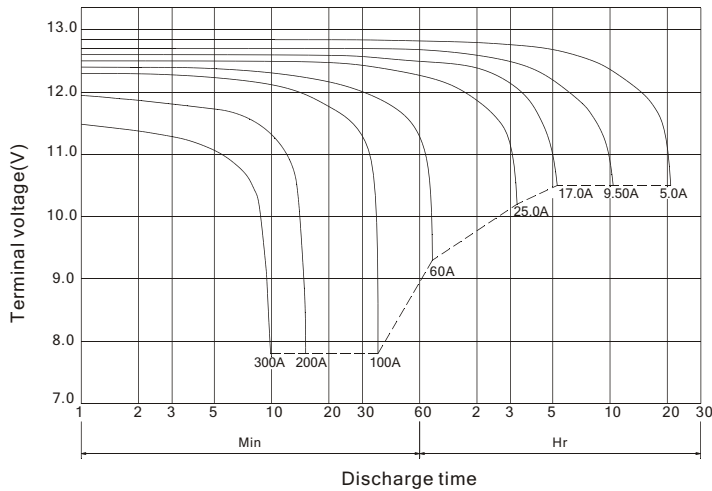
BPS100-12

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

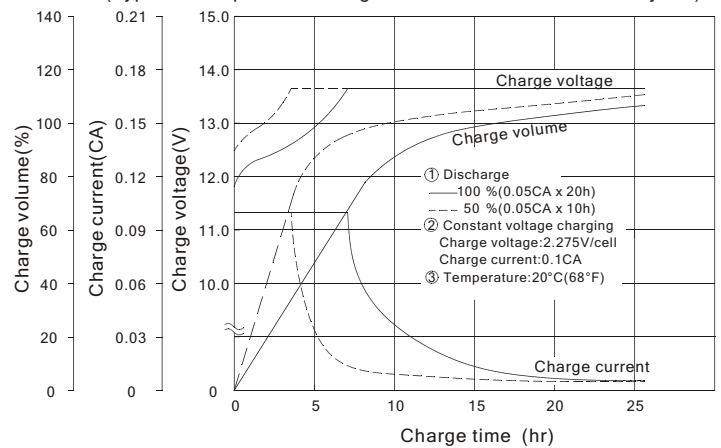
Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(Ah)	
20 Hour rate F.V.(1.75V/cell) (5.00A to 10.50volts)	100Ah
10 Hour rate F.V.(1.75V/cell) (9.50A to 10.50volts)	95Ah
5 Hour rate F.V.(1.75V/cell) (17.00A to 10.50volts).....	85Ah
1 Hour rate F.V.(1.55V/cell) (60.00A to 9.30volts)	60Ah
Approximate Weight.....	32.7kg(72.10lbs.)
Terminal	
Standard.....	Type B3
Optional.....	Type I2
Internal Resistance (Fully Charged Battery).....	<4.5m Ω
Maximum Discharge Current For 5 sec.(A).....	1000A
Maximum Charge Current(A).....	30A
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.

BPS100-12 Battery discharge characteristics (25°C/77°F)



Battery Charging Characteristics

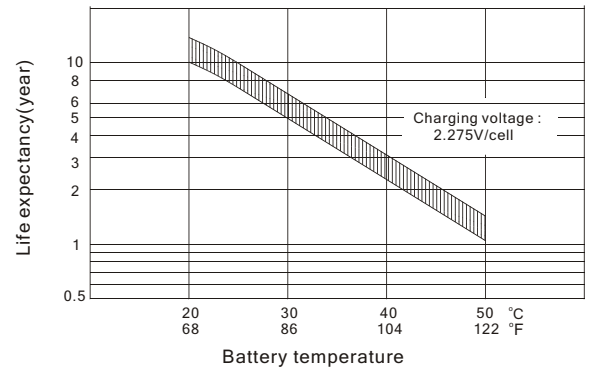
(Typical example of the charge characteristics for the standby use)



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		2.40~2.50	-4	0.3	16	10	

Effect of Temperature on Long Term Float Life

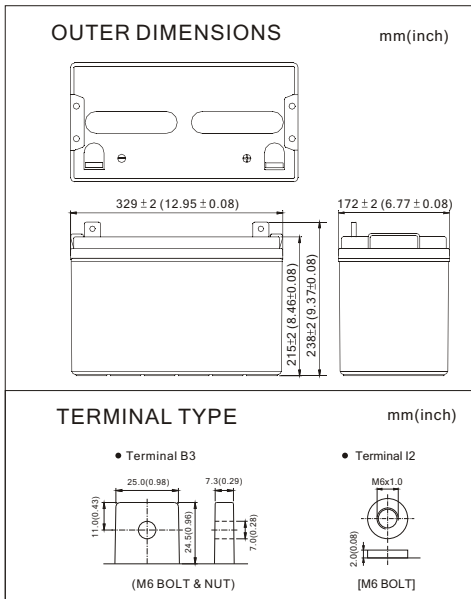


Constant power discharge characteristics at 25°C/77°F

Final Voltage VPC	Discharge time															
	5Min	7Min	10Min	15Min	20Min	30Min	45Min	1Hr	1.5Hr	2Hr	3Hr	4Hr	5Hr	8Hr	10Hr	20Hr
1.60V	4119	3460	2965	2323	1846	1366	988.0	780.0	542.4	423.0	303.9	240.6	206.4	138.6	114.9	60.48
1.65V	3987	3371	2907	2278	1815	1353	978.1	772.3	536.7	419.6	302.1	239.6	205.8	138.5	114.9	60.48
1.70V	3815	3255	2839	2226	1780	1334	965.8	763.1	531.7	415.8	300.0	238.4	205.1	138.1	114.6	60.31
1.75V	3487	3069	2740	2160	1730	1304	946.5	749.6	523.3	410.3	297.3	236.5	204.0	137.4	114.0	60.00
1.80V	3103	2805	2530	2065	1660	1256	915.4	727.8	508.9	400.2	291.5	232.4	201.0	135.3	112.3	59.10
1.85V	2686	2484	2239	1899	1544	1174	864.8	691.4	488.7	386.1	282.7	225.8	196.0	131.9	109.4	57.60
1.90V	2332	2061	1903	1671	1374	1057	786.3	636.1	452.0	361.1	265.8	215.2	185.2	124.7	103.5	54.48

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	396	323	277	208	161	117	83.3	65.5	45.4	35.3	25.3	20.0	17.2	11.6	9.58	5.04
1.65V	376	312	267	204	158	116	82.5	64.9	44.9	35.0	25.2	20.0	17.2	11.5	9.58	5.04
1.70V	354	299	256	199	155	114	81.4	64.1	44.5	34.7	25.0	19.9	17.1	11.5	9.55	5.03
1.75V	323	282	247	193	151	112	79.8	63.0	43.8	34.2	24.8	19.7	17.0	11.4	9.50	5.00
1.80V	282	253	228	185	145	108	77.2	61.2	42.6	33.3	24.3	19.4	16.7	11.3	9.36	4.93
1.85V	242	216	193	164	132	100	72.5	57.6	40.7	32.2	23.6	18.8	16.3	11.0	9.12	4.80
1.90V	198	175	162	142	116	89.0	65.5	53.0	37.7	30.1	22.1	17.9	15.4	10.4	8.63	4.54



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