



Valve Regulated Lead-Acid Rechargeable Battery



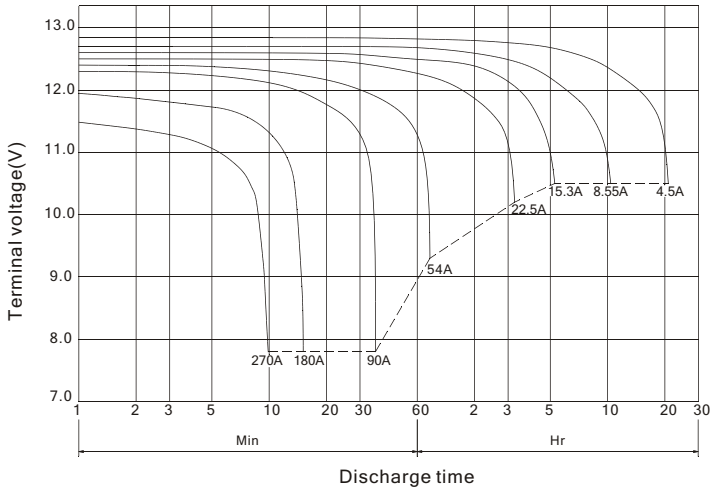
BP90-12

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

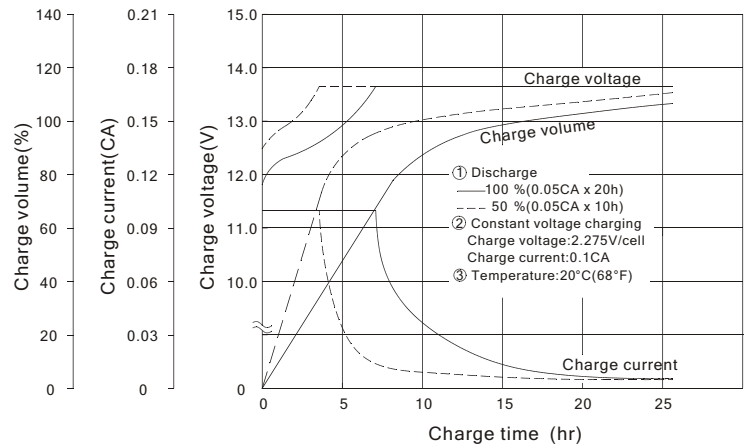
Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(AH)	
20 Hour rate F.V.(1.75V/cell) (4.50A to 10.50volts)	90.0Ah
10 Hour rate F.V.(1.75V/cell) (8.55A to 10.50volts)	85.5Ah
5 Hour rate F.V.(1.75V/cell) (15.30A to 10.50volts).....	76.5Ah
1 Hour rate F.V.(1.55V/cell) (54.00A to 9.30volts)	54.0Ah
Approximate Weight.....	30.8kg(67.90lbs.)
Terminal	
Standard.....	Type B3
Optional.....	Type I2
Internal Resistance (Fully Charged Battery).....	<5m Ω
Maximum Discharge Current For 5 sec.(A).....	900A
Maximum Charge Current(A).....	27A
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)
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.

BP90-12 Battery discharge characteristics (25°C/77°F)



Battery Charging Characteristics

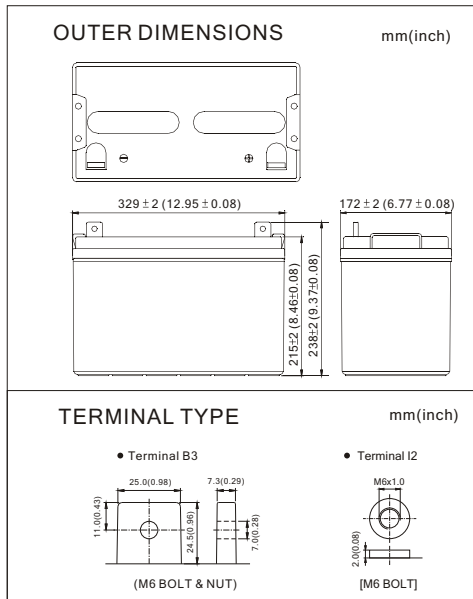
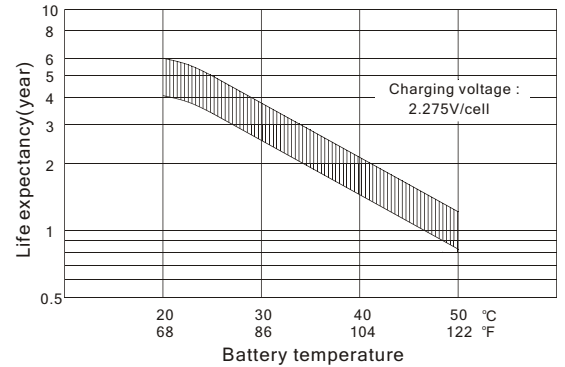
(Typical example of the charge characteristics for the standby use)



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	3745	3114	2696	2112	1678	1242	889	702	488	381	274	219	186	125	103	54.4
1.65V	3624	3034	2643	2071	1650	1230	880	695	483	378	272	218	185	125	103	54.4
1.70V	3468	2929	2581	2024	1618	1213	869	687	479	374	270	217	185	124	103	54.3
1.75V	3170	2790	2491	1963	1573	1186	852	675	471	369	268	215	184	124	103	54.0
1.80V	2821	2525	2300	1877	1509	1142	824	655	458	360	262	211	181	122	101	53.2
1.85V	2442	2235	2035	1727	1403	1068	778	622	440	347	254	205	176	119	98.5	51.8
1.90V	2000	1874	1730	1520	1249	961	708	573	407	325	239	196	167	112	93.2	49.0

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	357	291	250	187	145	105	75.0	59.0	40.9	31.7	22.8	18.2	15.5	10.4	8.6	4.54
1.65V	339	281	240	183	142	104	74.2	58.4	40.4	31.5	22.7	18.2	15.4	10.4	8.6	4.54
1.70V	318	269	230	179	139	103	73.3	57.7	40.0	31.2	22.5	18.1	15.4	10.4	8.6	4.52
1.75V	291	256	222	174	136	100	71.8	56.7	39.4	30.8	22.3	17.9	15.3	10.3	8.5	4.50
1.80V	254	227	205	166	130	97	69.5	55.0	38.3	30.0	21.9	17.6	15.1	10.2	8.4	4.43
1.85V	218	194	174	148	119	90	65.3	51.9	36.7	29.0	21.2	17.1	14.7	9.9	8.2	4.32
1.90V	169	158	145	128	104	80	59.0	47.7	33.9	27.1	19.9	16.3	13.9	9.4	7.8	4.09



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