

# SB120-12

# AGM BATTERY 120Ah 12V



SB series is a general purpose battery with 10 years design life in float service. It meets with IEC, JIS and BS standards. With up-dated AGM valve regulated technology and high purity raw materials, the SB series battery maintains high consistency for better performance and reliable standby service life. It is suitable for UPS/EPS, solar, medical equipment,

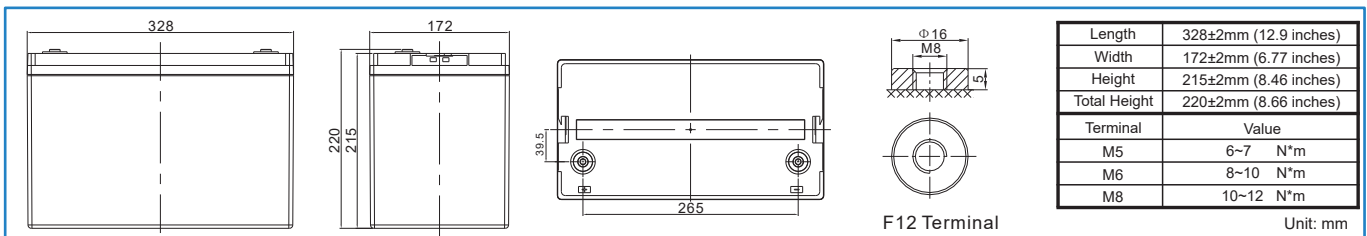


## Specification

Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	110Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 32.0 Kg (Tolerance ±2.0%)
Internal Resistance	Approx. 4.2 mΩ
Terminal	F12(M8)
Max. Discharge Current	1100A (5 sec)
Short Circuit Current	2300A
Design Life	12 years (Float charging)
Recommended Maximum Charging Current	33 A
Reference Capacity	C3 85.5AH C5 98.5AH C10 110.0AH C20 116.4AH
Standby Use Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V~14.8 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C ±5°C
Self Discharge	Syrio Power Valve Regulated LeadAcid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



## Dimensions



### Constant Current Discharge Characteristics : A (25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	256.7	198.0	116.6	68.4	41.0	30.1	24.4	20.6	13.8	11.7	6.01
1.65V	249.0	192.8	114.0	67.1	40.4	29.7	24.1	20.4	13.6	11.6	5.97
1.70V	239.0	186.0	110.6	65.5	39.6	29.2	23.7	20.1	13.5	11.5	5.90
1.75V	226.0	177.1	106.2	63.3	38.5	28.5	23.2	19.7	13.2	11.3	5.82
1.80V	209.4	165.7	100.5	60.4	37.1	27.5	22.5	19.1	12.9	11.0	5.70
1.85V	188.7	151.3	93.1	56.7	35.3	26.3	21.6	18.4	12.5	10.7	5.55

### Constant Power Discharge Characteristics : WPC (25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	442.9	351.4	214.9	129.8	78.8	58.3	47.6	40.4	27.3	23.4	12.0
1.65V	441.1	349.4	213.3	128.8	78.3	57.9	47.3	40.1	27.1	23.2	11.9
1.70V	428.0	339.9	208.2	126.0	76.9	57.0	46.6	39.6	26.8	22.9	11.8
1.75V	412.1	328.4	201.9	122.4	75.2	55.9	45.7	38.9	26.4	22.6	11.7
1.80V	388.5	311.6	192.9	117.3	72.9	54.3	44.5	37.9	25.8	22.1	11.5
1.85V	356.2	288.5	180.6	110.9	69.7	52.1	42.8	36.6	25.0	21.4	11.2

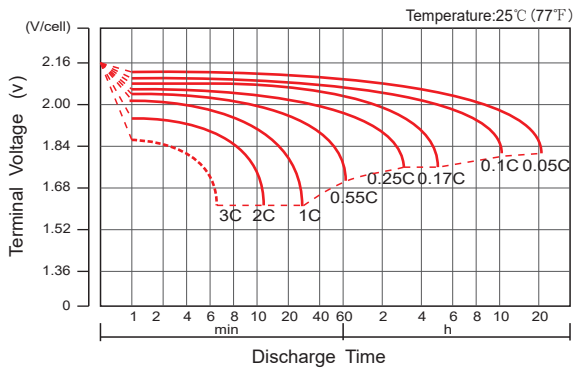
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

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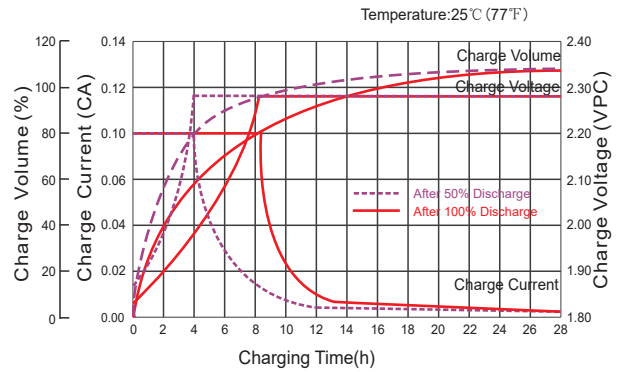
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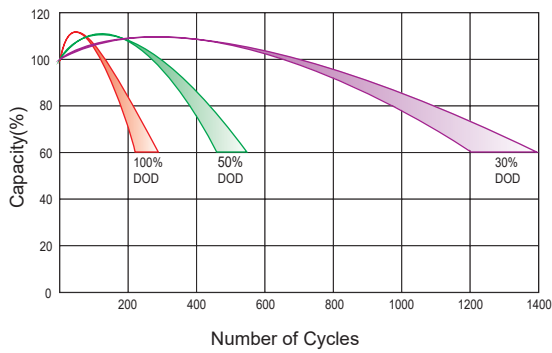
Discharge Characteristics Curve



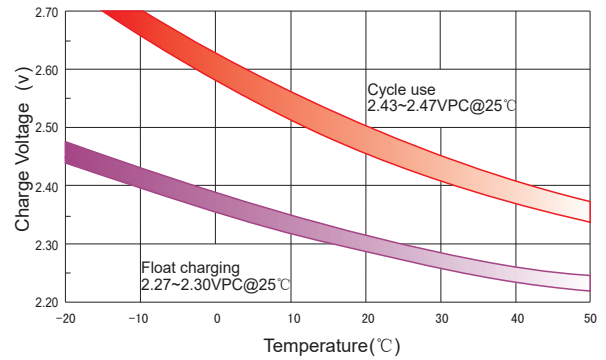
Charge Characteristic Curve For Standby Use



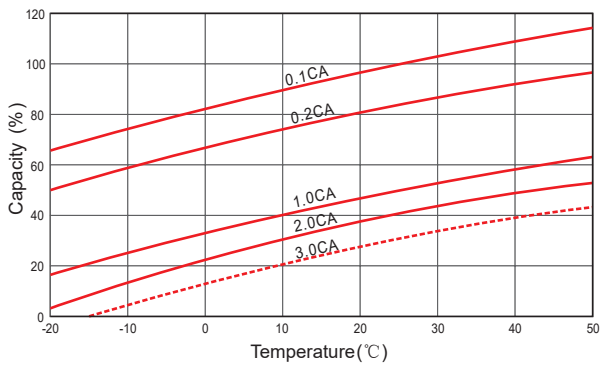
Cycle Life In Relation To Depth Of Discharge



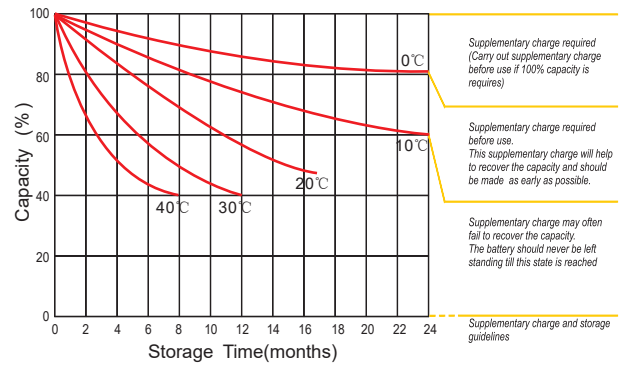
Relationship Between Charging Voltage And Temperature



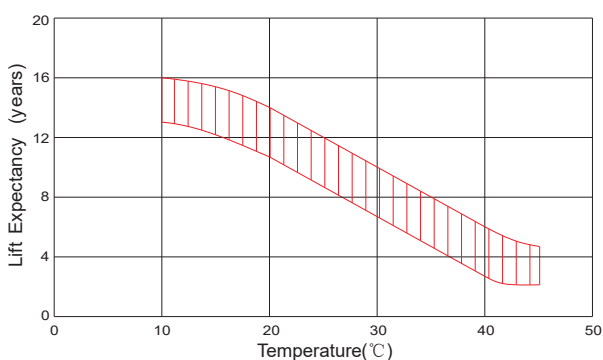
Temperature Effects On Capacity



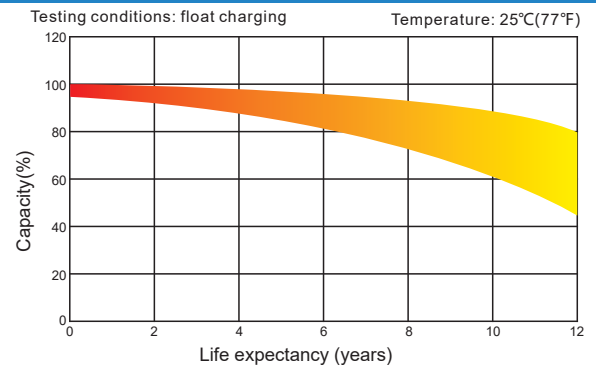
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



(Note) All above information shall be changed without prior notice, PuntoEnergia Italia s.r.l. reserves the right to explain and update the latest information



Via Soccorso snc  
71016 San Severo (FG)  
Tel. 0882/228247

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