

SB160-12

AGM BATTERY 160Ah 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	160Ah@10hour-rate to 1.80V per cell @25°C
Weight	Approx. 43.0 Kg (Tolerance ± 1.5%)
Internal Resistance	Approx. 4.5 mΩ
Terminal	F12(M8)/F5(M8)
Max. Discharge Current	1600A (5 sec)
Short Circuit Current	2550A
Design Life	12 years (Float charging)
Recommended Maximum Charging Current	45 A
Reference Capacity	C3 124.2AH C5 143.0AH C10 160.0AH C20 169.2AH
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 Lead Acid (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

Length	483±2mm (19.0 inches)
Width	170±2mm (6.69 inches)
Height	241±2mm (9.49 inches)
Total Height	241±2mm (9.49 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

F12 Terminal

Unit: mm

Constant Current Discharge Characteristics : A (25°C)

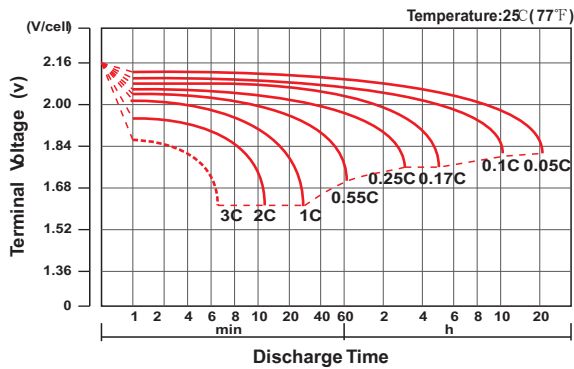
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	353.7	278.4	167.9	98.5	59.0	43.8	35.6	30.0	20.1	17.1	8.75
1.65V	343.2	271.1	164.2	96.7	58.2	43.2	35.1	29.7	19.9	16.9	8.68
1.70V	329.4	261.5	159.3	94.3	57.0	42.4	34.5	29.2	19.6	16.7	8.58
1.75V	311.5	249.0	152.9	91.1	55.5	41.4	33.7	28.6	19.2	16.4	8.46
1.80V	288.6	232.9	144.7	86.9	53.5	40.0	32.7	27.8	18.7	16.0	8.29
1.85V	260.0	212.7	134.1	81.6	50.9	38.3	31.4	26.7	18.1	15.5	8.07

Constant Power Discharge Characteristics : WPC (25°C)

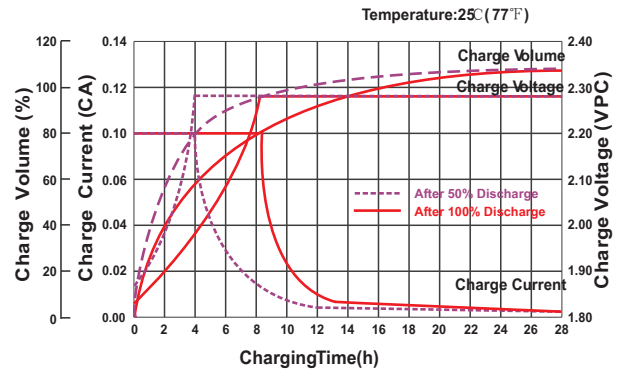
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	610.3	493.9	309.5	187.0	113.5	84.9	69.3	58.7	39.8	34.0	17.5
1.65V	607.8	491.1	307.2	185.4	112.7	84.2	68.8	58.3	39.5	33.8	17.4
1.70V	589.8	477.9	299.8	181.4	110.8	82.9	67.8	57.6	39.0	33.4	17.2
1.75V	567.8	461.7	290.7	176.2	108.3	81.3	66.5	56.5	38.3	32.8	17.0
1.80V	535.3	438.0	277.8	169.0	105.0	78.9	64.7	55.1	37.5	32.1	16.7
1.85V	490.9	405.6	260.1	159.7	100.4	75.8	62.3	53.2	36.3	31.1	16.2

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

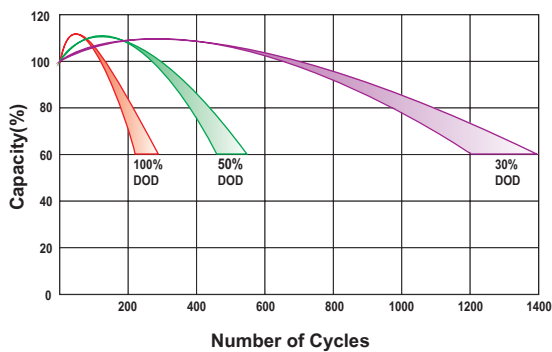
Discharge Characteristics Curve



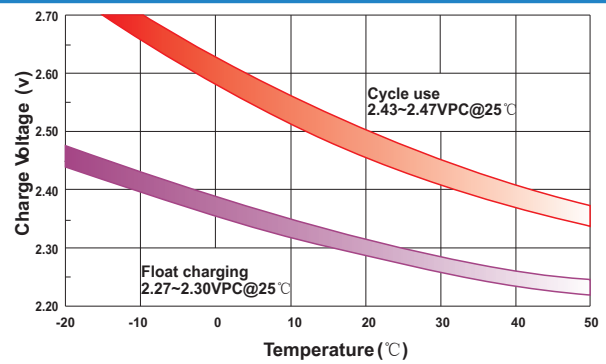
Charge Characteristic Curve For Standby Use



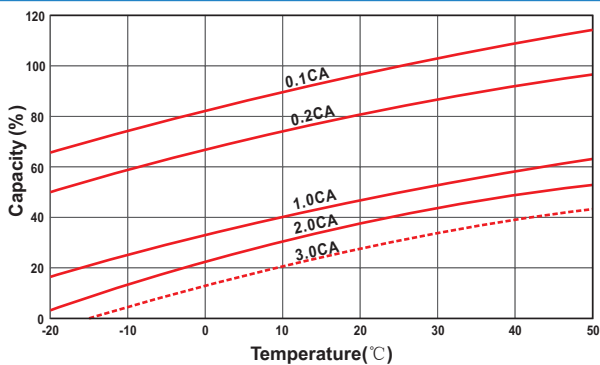
Cycle Life In Relation To Depth Of Discharge



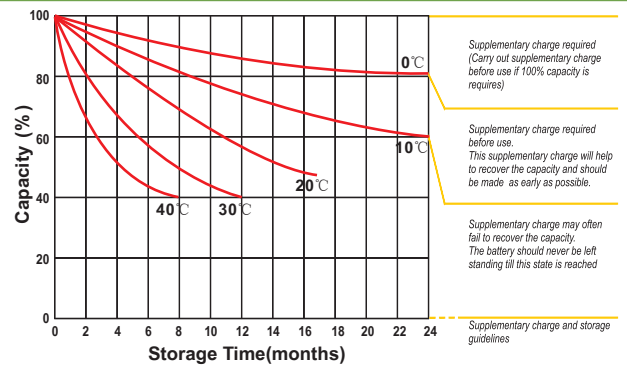
Relationship Between Charging Voltage And Temperature



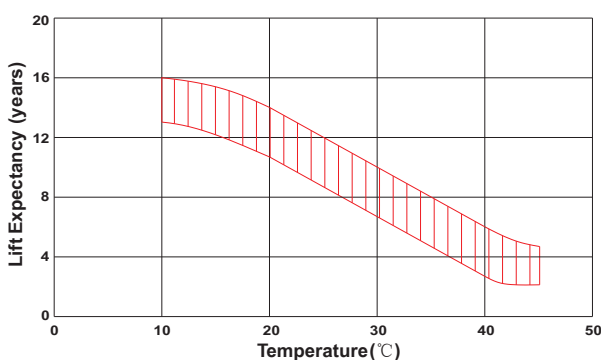
Temperature Effects On Capacity



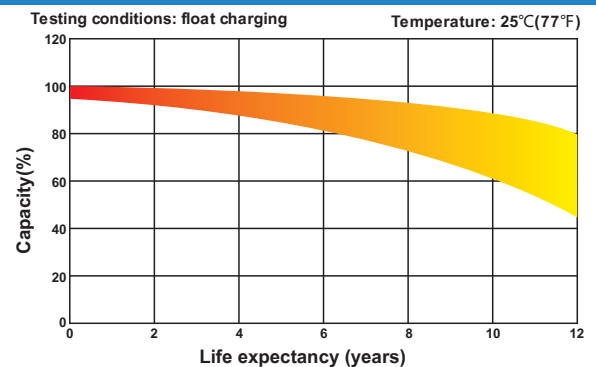
Storage Characteristics



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