

POWERTECH

SB2560

12V 100Ah AGM Deep Cycle Battery



Instruction Manual

GENERAL FEATURES:

- High corrosion resistant performance: Pb-Ca multi-alloy grid
- High energy density and power density
- Optimized capability of instant high-current discharging
- Excellent charge acceptance ability
- Excellent deep cycle discharge capability
- Strong high and low temperature performance
- Precision sealing technology
- Long life

APPLICATIONS:

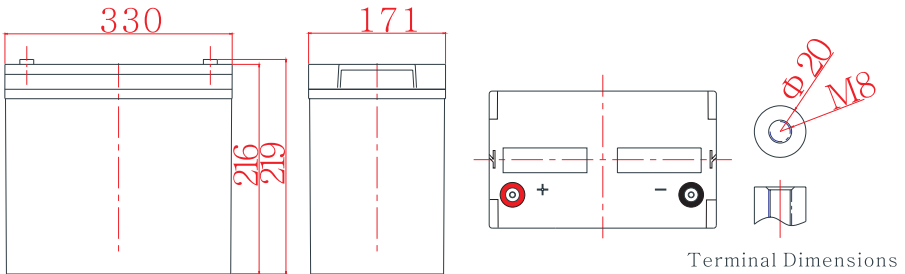
- UPS/EPS
- Power systems
- Telecommunications system
- Emergency lighting, Auto control system
- Solar/wind generating storage cyclic
- Other general purpose

PRODUCT SPECIFICATIONS:

Nominal Voltage:	12V
Nominal Capacity:	100Ah
Design Life:	10 years
Terminal:	M8
Approx. Weight:	Approx 28.0kg (61.7lbs)
Container Material:	ABS
Rated Capacity:	100Ah 20 Hour Rate (5.00A to 10.5V) 75.3Ah 3 Hour Rate (25.1A to 10.5V) 62.6Ah 1Hour Rate (62.6A to 9.60V)
Internal Resistance:	Full charged at 25°C: 5.0 mΩ
Max. Discharge Current:	1200A(5S)
Operating Temperature:	Discharge: -20~50°C Charge: -20~50°C Storage: -20~50°C
Charge Method:	Charge Current: Max. 25A; Recom. 10A Float Charge: 13.5-13.8V, Recom. 13.5V (-18mV/ °C) Equalize Charge: 13.8-14.1V, Recom.14.1V (-24mV/ °C) Cycle Charge: 14.4-15.0V, Recom.14.4V (-30mV/ °C)
Self Discharge:	3 % of capacity declined per month at 25°C

DIMENSIONS:

Dimension: 330(L) × 171(W) × 216(H) × 219(TH) Unit: mm



CONSTANT CURRENT DISCHARGE CHARACTERISTICS

Unit: A (25°C,77°F)

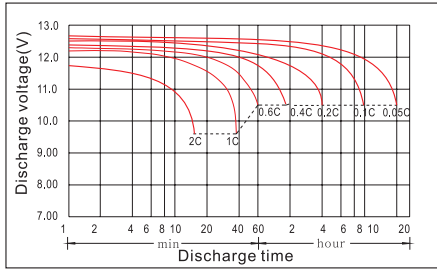
FV/ Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	591	333	208	127	73	53.3	35.7	24	20	10.8
1.65V	568	328	206	126	72.8	52.6	35.5	23.8	19.8	10.8
1.70V	565	324	206	125	72.5	52.3	35.2	23.7	19.6	10.7
1.75V	527	322	205	124	72.1	52	35	23.5	19.4	10.7
1.80V	484	304	201	123	71.9	51.8	34.6	23.3	19.2	10.6
1.85V	432	272	184	115	68.7	49.3	33	22.5	18.9	10.5

Unit: W/cell (25°C,77°F)

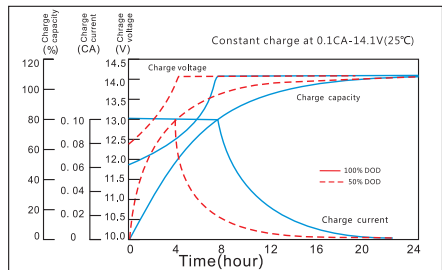
FV/ Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	328	176	107	62.6	35.9	26	17.5	11.5	9.67	5.07
1.65V	317	171	105	62.2	35.7	25.8	17.3	11.4	9.57	5.05
1.70V	305	167	103	61.8	35.4	25.4	17.1	11.3	9.48	5.02
1.75V	280	161	102	60.8	34.9	25.1	16.9	11.2	9.39	5
1.80V	251	151	98	59.3	34.2	25	16.5	11.1	9.29	4.97
1.85V	224	134	89.4	54.9	32.5	23.5	15.7	10.7	9.01	4.89

Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

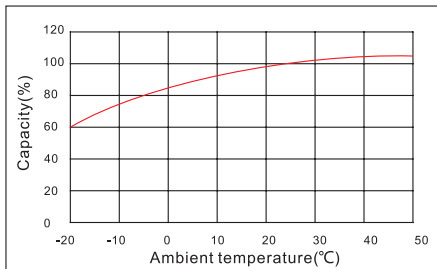
Discharge characteristic



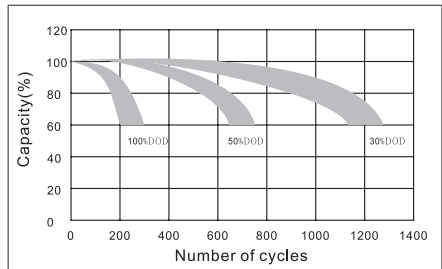
Charging characteristic



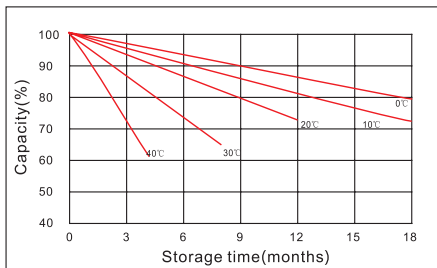
The effect of temperature on capacity



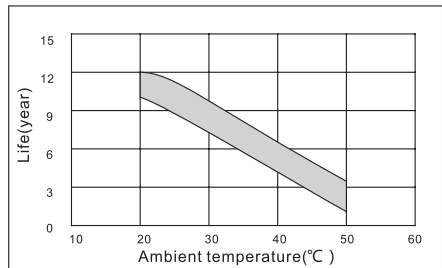
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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