

UP-AGM SERIES

UP-ST200-2



2V STATIONARY AGM



GENERAL FEATURES

- Thick plate with high Tin low Calcium alloy
- High Reliability and Good Quality
- High gas recombination efficiency
- High Power Density
- Long Service Life, in Float or Cyclic

TECHNICAL SPECIFICATIONS

Nominal Voltage		2V (1 cells per unit)
Design Floating Life @25°C		15 Years
Nominal Capacity @25°C (10 hour rate@20.0A,1.8V)		200Ah
Capacity @25°C	20 hour rate (10.60A,1.8V)	212Ah
	5 hour rate (35.2A,1.75V)	176Ah
	1 hour rate (128.1A,1.6V)	128.1Ah
Internal Resistance	Full Charged Battery@25°C	≤0.8mΩ
Ambient Temperature	Discharge	-20°C~50°C
	Charge	-20°C~50°C
	Storage	-20°C~50°C
Max.Discharge Current@25°C		1000A(5s)
Capacity affected by Temperature (10 hr Capacity)	40°C	105%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-Discharge@25°C per Month		3%
Charge (Constant Voltage) @25°C	Standby Use	Initial Charging Current Less than 30A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 30A Voltage 2.33-2.37V

APPLICATIONS

- Solar Systems
- Power station
- Telecom systems
- Cable TV Systems
- UPS & EPS
- Renewable energy system

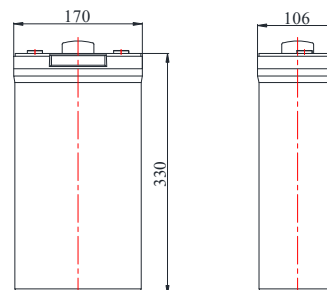
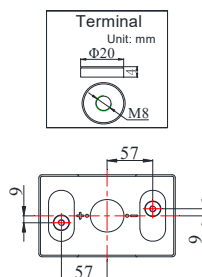
COMPLIED STANDARDS

IEC 60896-21/22	JIS C8704
YD/T799	BS6290 part4
GB/T 19638	UL 1989



DIMENSIONS & WEIGHT

Length (mm)	170±1
Width (mm)	106±1
Height (mm)	330±1
Total Height (mm)	367±1
Weight (kg)	13.0±3%



BATTERY CONSTRUCTION

Component	Positive plate	Negative plate	Container & Cover	Safety valve	Terminal	Separator	Electrolyte	Pillar seal
Features	Thick high Sn low Ca grid with special paste	Balanced Pb-Ca grid for improved recombination efficiency	ABS (UL94-V0 optional)	Flame Si-Rubbeand aging resistancer	Female Copper Insert M8 (torque: 10~12N.m)	Advanced AGM separator for high pressure cell design	Dilute high purity sulphuric acid	Two layers epoxy resin seal

DISCHARGE CONSTANT CURRENT PER CELL (AMPERES AT 25°C)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	212.6	161.0	128.2	75.0	57.2	44.4	37.2	32.4	26.0	21.0	11.10
1.65V	201.4	154.8	124.0	72.6	55.4	43.4	36.6	31.8	25.8	20.6	11.00
1.70V	195.6	149.2	120.6	70.6	54.0	42.4	35.8	31.2	25.4	20.4	10.88
1.75V	187.0	142.6	116.2	68.8	52.8	41.4	35.2	30.6	25.2	20.2	10.78
1.80V	180.2	137.4	112.2	66.2	51.2	40.4	34.4	30.0	24.4	20.0	10.60

DISCHARGE CONSTANT POWER PER CELL (WATTS AT 25°C)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	410.2	305.8	246.8	142.2	109.4	85.2	71.8	62.6	51.2	41.0	21.8
1.65V	391.8	295.4	240.2	138.4	106.6	83.6	70.6	61.6	50.8	40.6	21.4
1.70V	375.2	286.0	232.0	135.2	104.2	82.0	69.6	60.8	50.0	40.2	21.2
1.75V	356.6	274.6	223.6	132.0	102.2	80.2	68.6	59.8	48.8	39.8	21.0
1.80V	341.6	265.4	216.4	127.6	99.4	78.4	67.2	58.8	47.8	39.6	20.8

Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact with Master Battery for the latest information.



PERFORMANCE CHARACTERISTICS

