

Valve Regulated Lead Acid AGM Battery



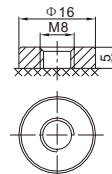
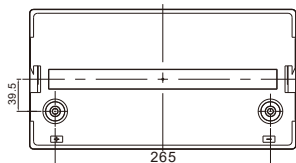
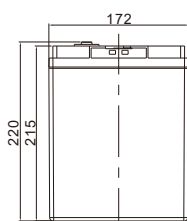
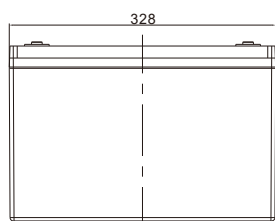
Application

- Uninterruptible Power Supplies (UPS)
- Electric Power Systems (EPS)
- Emergency Backup Power Supplies
- Communication Power Supplies
- Auto Control System

Specifications

Cells Per Unit	6
Voltage Per Unit	12
Capacity	100Ah@10hr-rate to 1.75V per cell @25°C
Weight	Approx. 29.0 Kg (Tolerance±1.5%)
Internal Resistance	Approx. 5.3 mΩ
Terminal	F12(M8)/F5(M8)
Max. Discharge Current	1000A (5 sec)
Design Life	15 years (floating charge)
Maximum Charging Current	20.0A
Reference Capacity	C3 81.6AH C5 90 AH C10 100 AH C20 111AH
Float Charging Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.2 V~14.4 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -15°C~45°C Charge: -15°C~45°C Storage: -10°C~45°C
Normal Operating Temperature Range	25°C±5°C
Self Discharge	Less than 3% at 25°C per month
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

Dimensions



F12 Terminal

Length	328±1mm (12.9 inches)
Width	172±1mm (6.77 inches)
Height	215±1mm (8.46 inches)
Total Height	220±1mm (8.66 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Unit: mm

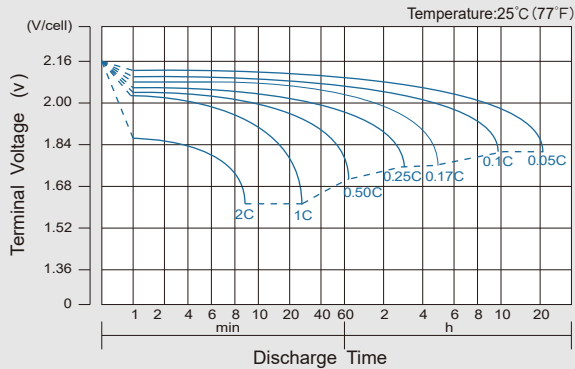
Discharge Constant Current per Cell (Amperes at 25°C)

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	168.8	105.1	75.4	66.5	40.5	29.6	19.1	11.6	10.40	5.77
1.65V	161.8	102.2	73.4	64.7	39.8	29.1	18.8	11.5	10.30	5.72
1.70V	154.8	99.4	71.3	63.0	39.1	28.6	18.5	11.4	10.20	5.66
1.75V	147.7	96.6	69.3	61.2	38.1	27.9	18.3	11.3	10.10	5.61
1.80V	140.7	93.8	67.3	59.4	37.2	27.2	18.0	11.2	10.00	5.55

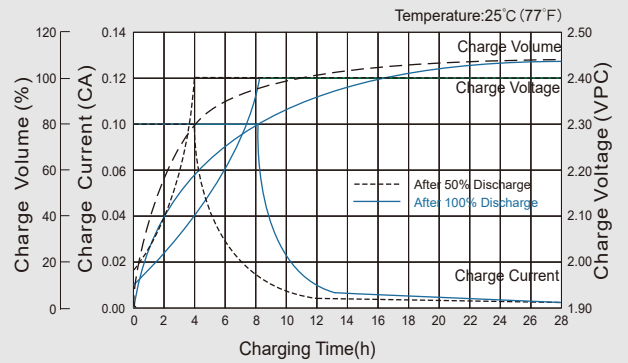
Discharge Constant Power per Cell (Watts at 25°C)

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	314.9	195.9	140.6	124.1	75.6	55.3	35.6	21.7	19.4	10.8
1.65V	301.8	190.7	136.8	120.8	74.2	54.3	35.1	21.5	19.2	10.7
1.70V	288.6	185.4	133.0	117.4	72.8	53.3	34.6	21.3	19.0	10.6
1.75V	275.5	180.2	129.3	114.1	71.1	52.0	34.1	21.1	18.8	10.5
1.80V	262.4	174.9	125.5	110.8	69.4	50.7	33.6	20.9	18.7	10.4

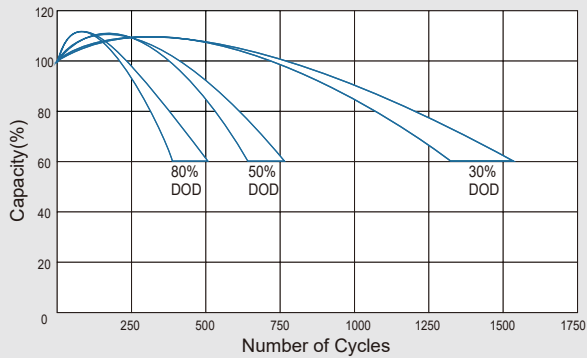
Discharge Characteristics Curve



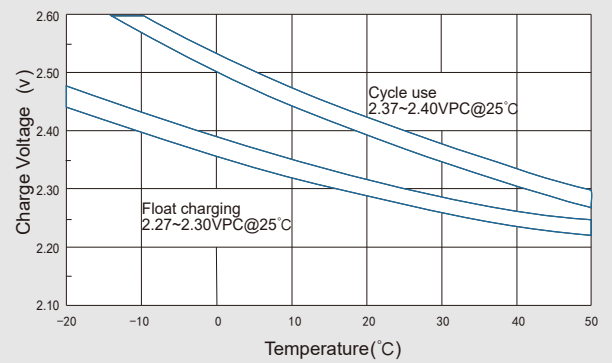
Charge Characteristic Curve for Cycle Use(IU)



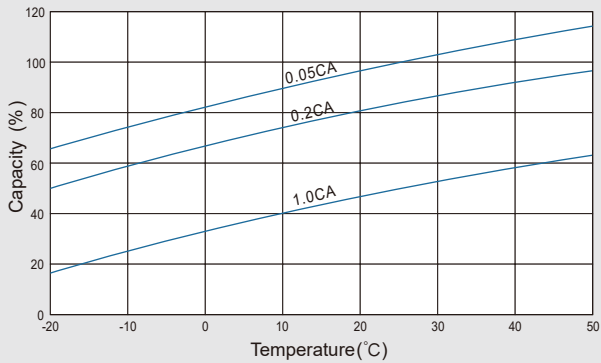
Cycle Life in Relation to Depth of Discharge



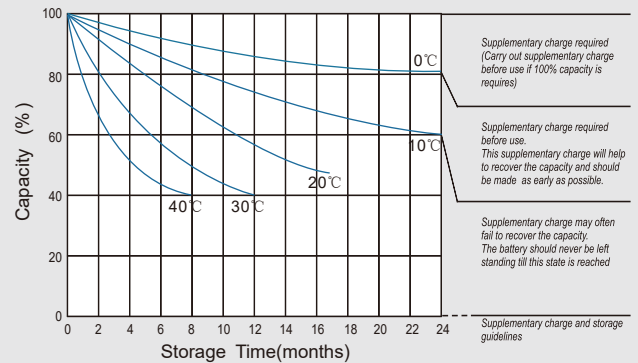
Relationship Between Charging Voltage and Temperature



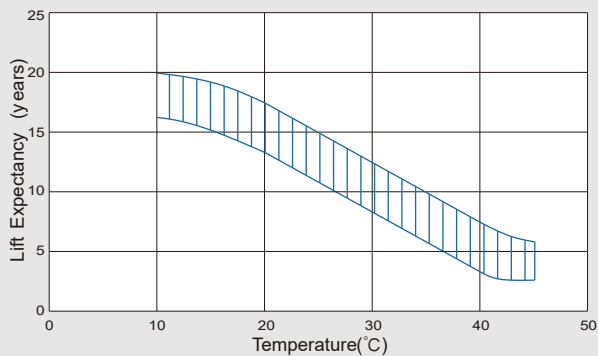
Temperature Effects on Capacity



Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20°C)

