



AGM Battery series

Datasheet : 3FM2.8(6V2.8AH)

Nominal Voltage	6V
Number of cell	3
Design Life	5 years
Nominal Capacity 77°F(25°C)	
20 hour rate (0.14A, 5.25V)	2.8Ah
10 hour rate (0.26A, 5.25V)	2.6Ah
5 hour rate (0.45A, 5.25V)	2.25Ah
1 hour rate (1.87A, 4.8V)	1.87Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	≤ 110mOhms
Self-Discharge	
3% of capacity declined per month at 20°C(average)	
Operating Temperature Range	
Discharge	-20~60 °C
Charge	-10~60 °C
Storage	-20~60 °C
Max. Discharge Current 77°F(25°C)	42A(5s)
Short Circuit Current	140A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	1.12A
Temperature compensation	-15mV/°C
Standby use	2.23-2.30VPC
Temperature compensation	-10mV/°C





Wide Range Temperature



Warranty



Maintenance Free



AGM Technology



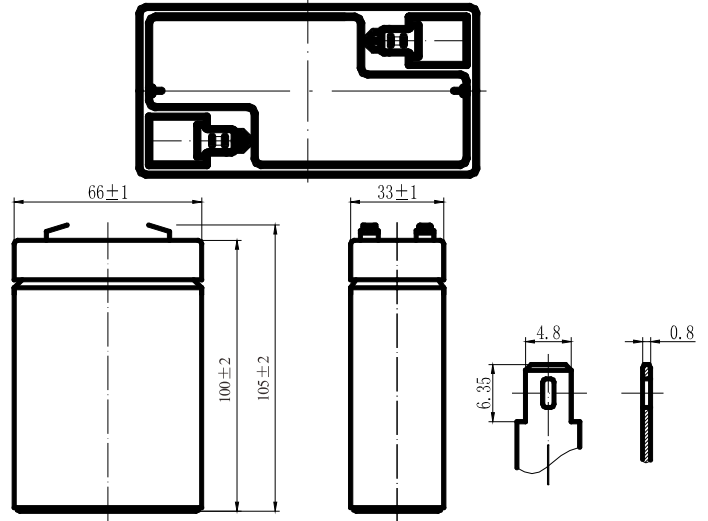
easy use



long life

Mechanical Characteristics

Length(mm / inch)	66 / 2.60
Width(mm / inch)	33 / 1.30
Height(mm / inch)	100 / 3.93
Total Height(mm / inch)	105 / 4.13
Approx. Weight(Kg / lbs)	0.5 / 1.1



Technical Characteristics

Discharge Constant Current (Amperes at 77°F25°C)

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	10.50	7.20	5.60	3.20	1.87	0.75	0.49	0.28	0.15
1.65V	9.95	6.85	5.35	3.07	1.80	0.73	0.48	0.27	0.14
1.70V	9.39	6.50	5.10	2.94	1.73	0.70	0.46	0.27	0.14
1.75V	8.80	6.13	4.83	2.80	1.65	0.67	0.45	0.26	0.14
1.80V	8.21	5.77	4.56	2.65	1.58	0.64	0.43	0.25	0.14

Discharge Constant Power (Watts at 77°F25°C)

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	20.7	14.0	10.70	6.13	4.23	3.67	2.13	1.48	0.97
1.65V	19.4	13.2	10.10	5.83	4.04	3.51	2.07	1.45	0.95
1.70V	18.1	12.4	9.51	5.51	3.84	3.35	2.00	1.41	0.93
1.75V	16.8	11.6	8.92	5.19	3.63	3.18	1.92	1.37	0.91
1.80V	15.6	10.8	8.33	4.87	3.42	3.01	1.84	1.32	0.89

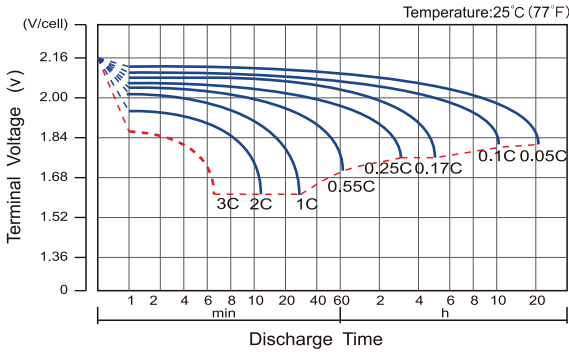
(Note)The above characteristics data are average values obtained within three charge/discharge cycles. All data shall be changed without notice, Neata reserves the right to explain and update the information.



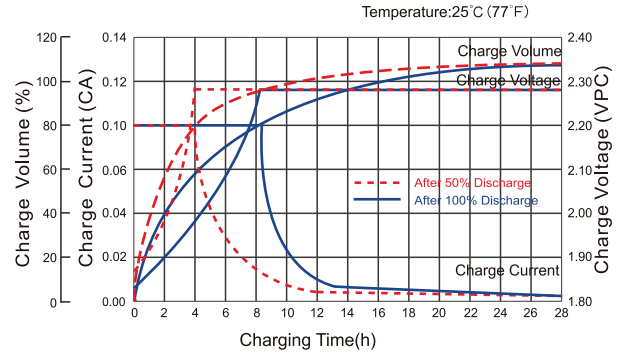
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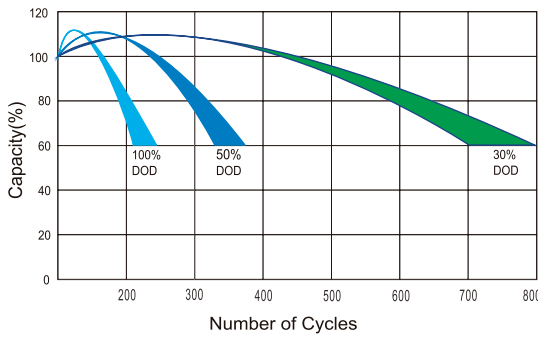
Discharge Characteristics Curve



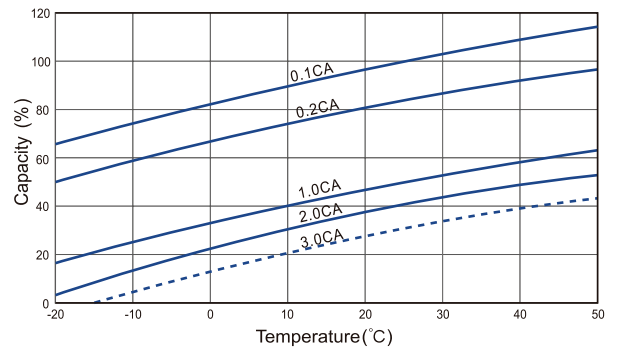
Charge Characteristic Curve For Standby Use



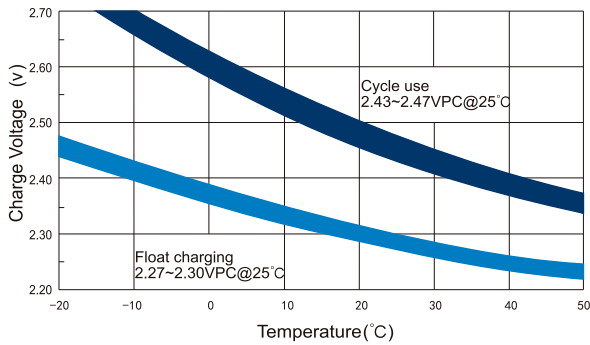
Cycle Life In Relation To Depth Of Discharge



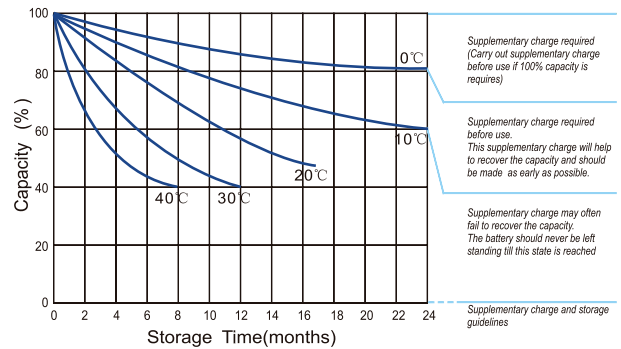
Temperature Effects On Capacity



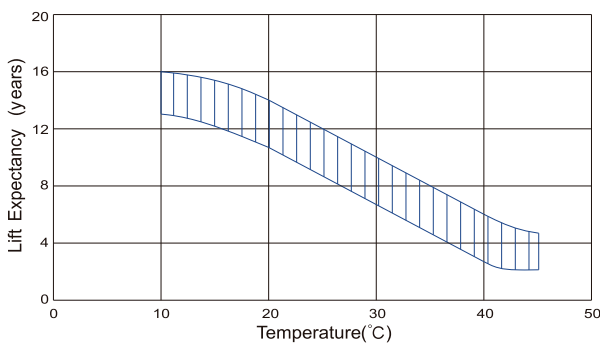
Relationship Between Charging Voltage And Temperature



Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use

