



AGM Battery series

Datasheet : 6FM18(12V18AH)

Nominal Voltage	12V
Number of cell	6
Design Life	5 years
Nominal Capacity 77°F(25°C)	
20 hour rate (0.90A, 10.5V)	18.00Ah
10 hour rate (1.68A, 10.5V)	16.80Ah
5 hour rate (3.09A, 10.5V)	15.45Ah
1 hour rate (11.8A, 9.6V)	11.80Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	≤16.5mOhms
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)	225(5s)
Short Circuit Current	850A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	6.8A
Temperature compensation	-30mV/°C
Standby use	13.6-13.8V
Temperature compensation	-20mV/°C





Wide Range Temperature



Warranty



Maintenance Free



AGM Technology



easy use

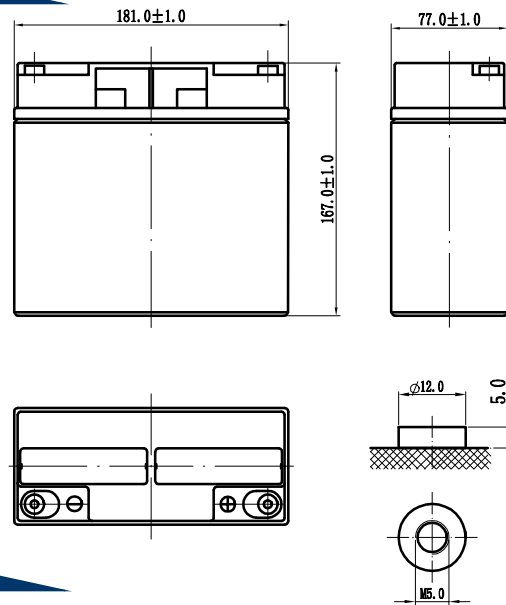


long life

Mechanical Characteristics

Length(mm / inch)	181 / 7.13
Width(mm / inch)	77 / 3.03
Height(mm / inch)	167 / 6.57
Total Height(mm / inch)	167 / 6.57
Approx. Weight(Kg / lbs)	4.9 / 10.78

* Weight deviation: ± 5%



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	64.9	44.1	34.0	19.8	11.8	4.57	3.09	1.78	0.95	
1.65V	62.8	43.0	33.3	19.4	11.6	4.50	3.03	1.75	0.93	
1.70V	60.5	41.9	32.6	18.9	11.4	4.42	2.97	1.72	0.92	
1.75V	58.0	40.7	31.8	18.4	11.2	4.35	2.91	1.68	0.90	
1.80V	55.3	39.4	30.9	17.9	10.9	4.27	2.84	1.65	0.90	

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

End Point	Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	111	78.6	61.3	35.3	27.4	22.4	13.0	9.09	6.13	
1.65V	107	77.2	60.2	34.8	27.1	22.2	12.9	9.01	6.07	
1.70V	103	75.8	59.0	34.3	26.8	22.0	12.8	8.92	6.01	
1.75V	98.0	74.3	57.8	33.7	26.4	21.7	12.7	8.83	5.95	
1.80V	94.0	72.8	56.5	33.1	26.0	21.5	12.5	8.74	5.88	

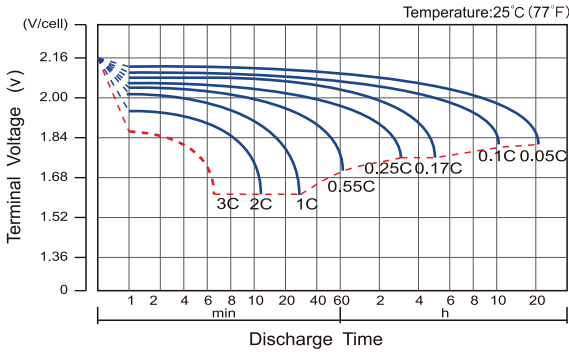
(Note)The above characteristics data are average values obtained within three charge/discharge cycles. All data shall be changed without notice, Neata reserves the right to explain and update the information.



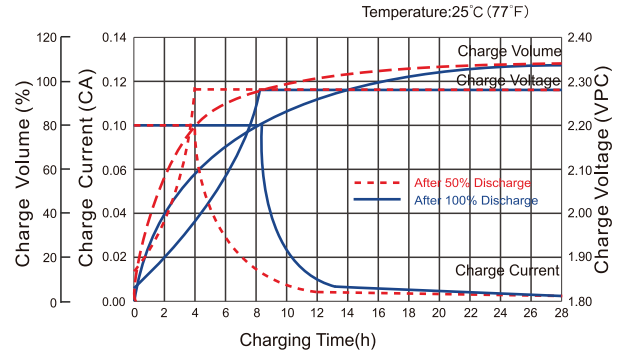
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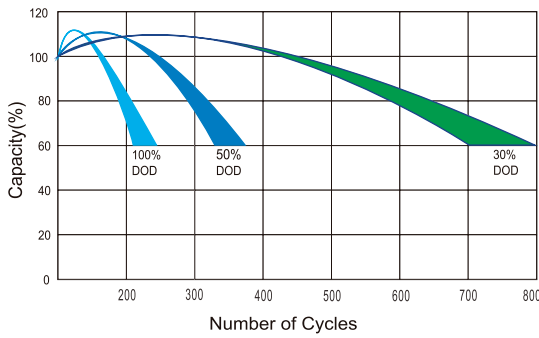
Discharge Characteristics Curve



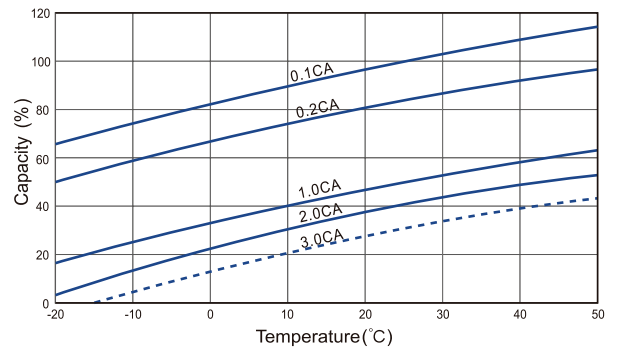
Charge Characteristic Curve For Standby Use



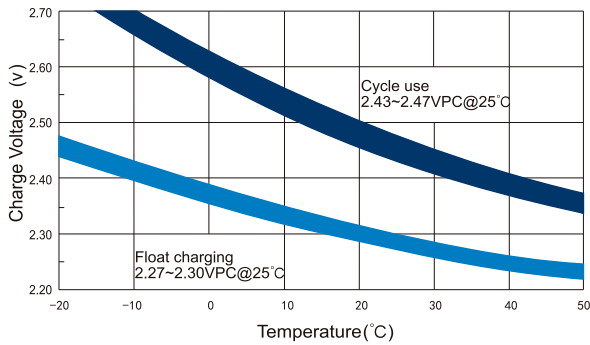
Cycle Life In Relation To Depth Of Discharge



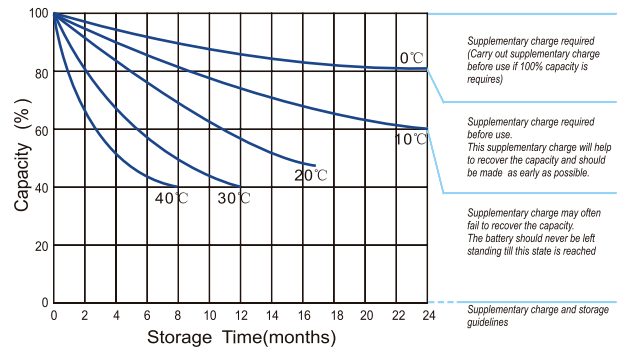
Temperature Effects On Capacity



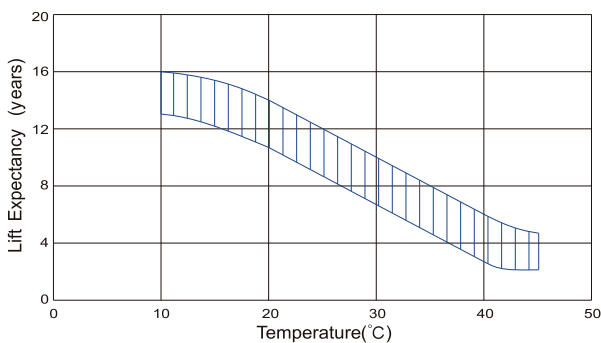
Relationship Between Charging Voltage And Temperature



Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use

