



AGM Battery series

Datasheet : 6FM24(12V24AH)

Nominal Voltage	12V
Number of cell	6
Design Life	5 years
Nominal Capacity 77°F(25°C)	
20 hour rate (1.20A, 10.5V)	24.00Ah
10 hour rate (2.20A, 10.5V)	22.00Ah
5 hour rate (3.81A, 10.5V)	19.50Ah
1 hour rate (14.4A, 9.6V)	14.40Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	≤12.0mOhms
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)	300(5s)
Short Circuit Current	1200A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	9.6A
Temperature compensation	-30mV/°C
Standby use	13.6-13.8V
Temperature compensation	-20mV/°C





Wide Range Temperature



Warranty



Maintenance Free



AGM Technology



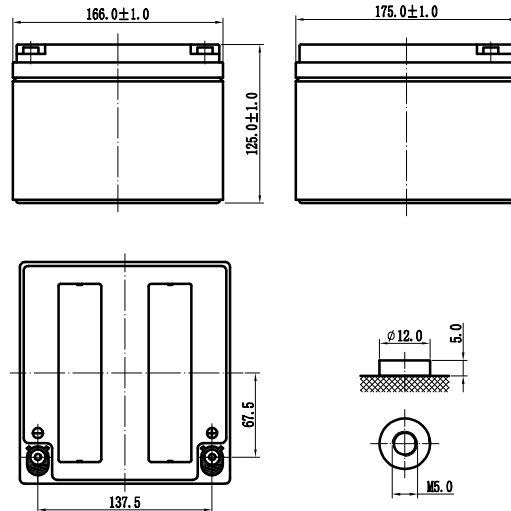
easy use



long life

Mechanical Characteristics

Length(mm / inch)	166 / 6.54
Width(mm / inch)	175 / 6.89
Height(mm / inch)	125 / 4.92
Total Height(mm / inch)	125 / 4.92
Approx. Weight(Kg / lbs)	7.4 / 16.28



* 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	70.0	45.1	35.6	22.8	14.4	6.30	4.18	2.34	1.26	
1.65V	65.0	42.8	33.9	21.9	13.8	6.07	4.05	2.30	1.24	
1.70V	60.0	40.5	32.3	20.9	13.2	5.85	3.93	2.25	1.22	
1.75V	55.0	38.1	30.7	20.0	12.6	5.63	3.81	2.20	1.20	
1.80V	50.0	35.8	29.1	19.1	12.0	5.40	3.69	2.16	1.18	

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

End Point	Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	125	80.9	65.1	43.2	27.9	12.5	7.94	4.69	2.54	
1.65V	118	77.0	62.2	41.5	26.8	12.0	7.78	4.62	2.41	
1.70V	110	73.0	59.3	39.8	25.7	11.5	7.61	4.55	2.38	
1.75V	103	69.1	56.4	38.0	24.6	11.1	7.45	4.48	2.34	
1.80V	95.0	65.1	53.5	36.3	23.5	10.6	7.28	4.41	2.30	

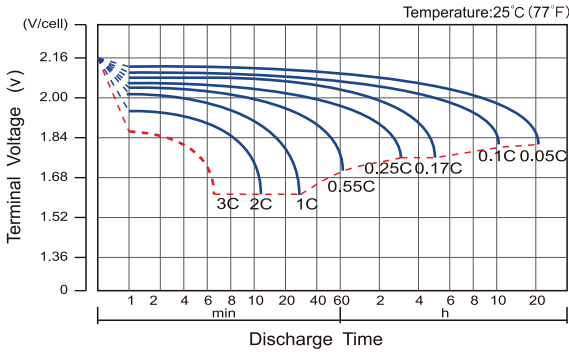
(Note)The above characteristics data are average values obtained within three charge/discharge cycles. All data shall be changed without notice, Neata reserves the right to explain and update the information.



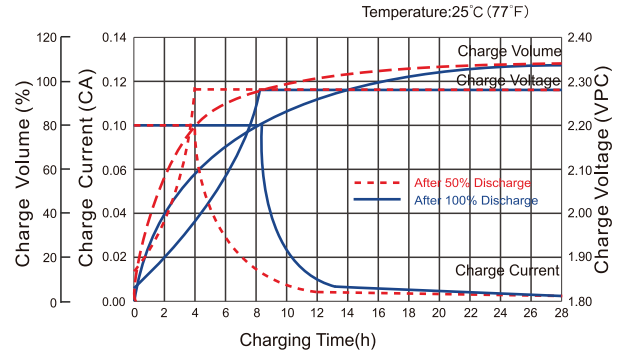
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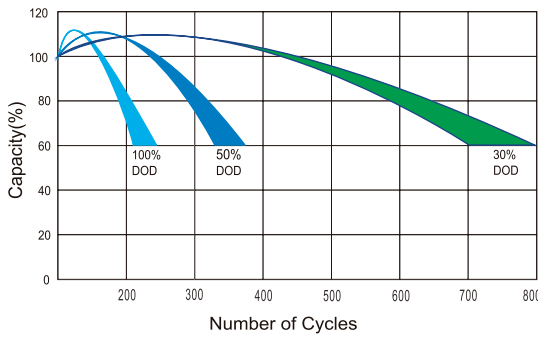
Discharge Characteristics Curve



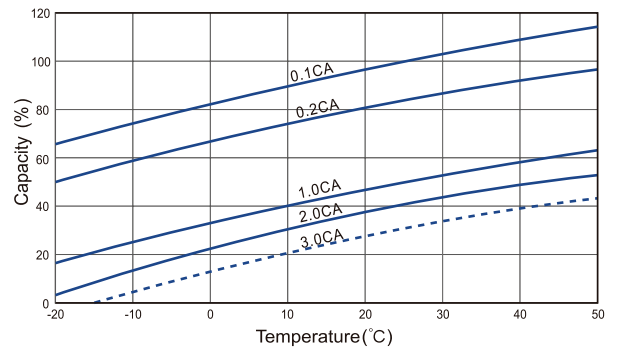
Charge Characteristic Curve For Standby Use



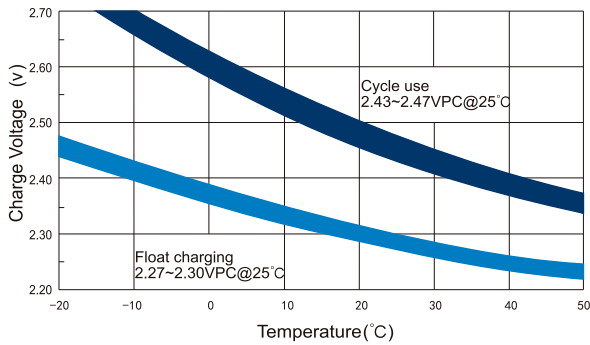
Cycle Life In Relation To Depth Of Discharge



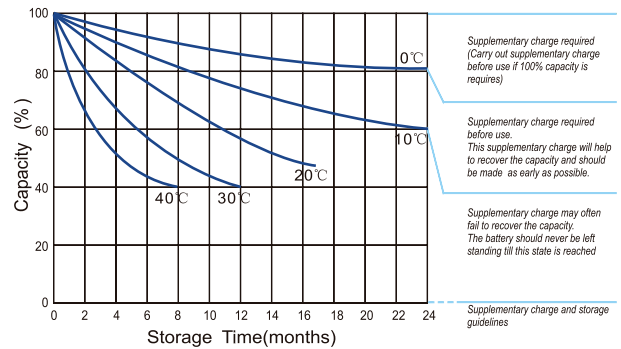
Temperature Effects On Capacity



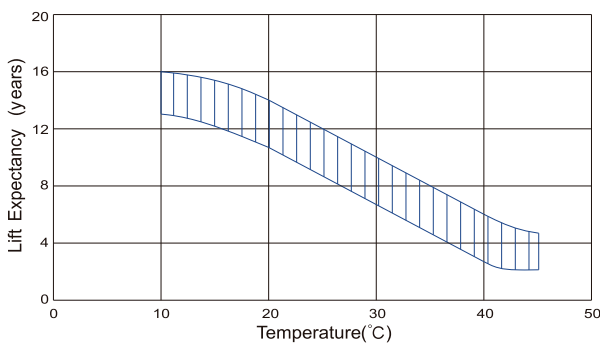
Relationship Between Charging Voltage And Temperature



Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use

