

Neata[®]
+ Super energy

AGM Battery series

Datasheet : NT12-100(12V100AH)

Nominal Voltage	12V
Number of cell	6
Design Life	10 years
Nominal Capacity 77°F(25°C)	
10 hour rate (10.00A, 10.5V)	100.0Ah
5 hour rate (16.6A, 10.5V)	83.00Ah
1 hour rate (61.0A, 9.6V)	61.00Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	≤5.7mOhms
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)	900(5s)
Short Circuit Current	2100A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	30.0A
Temperature compensation	-30mV/°C
Standby use	13.6-13.8V
Temperature compensation	-20mV/°C



Wide Range Temperature



Warranty



Maintenance Free



AGM Technology



easy use

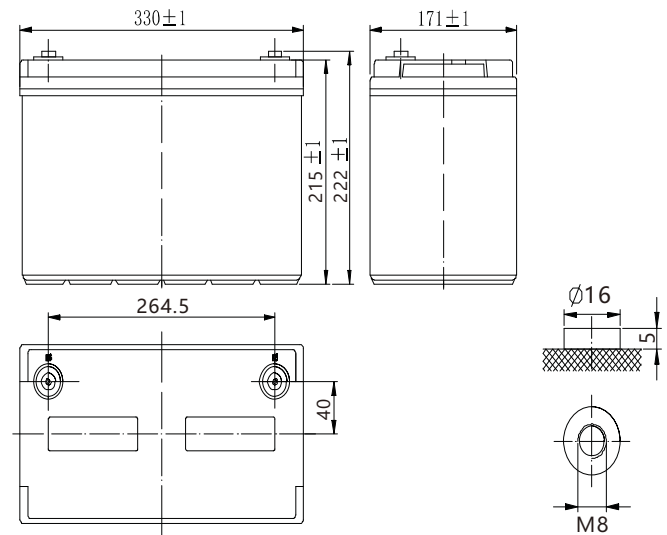


long life

Mechanical Characteristics

Length(mm / inch)	330/12.99
Width(mm / inch)	171/6.73
Height(mm / inch)	215/8.46
Total Height(mm / inch)	222/8.74
Approx. Weight(Kg / lbs)	30.0 / 66.0

* Weight deviation: ± 5%



Technical Characteristics

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

End Point									
Volts/Cell	10min	15min	30min	1h	3h	5h	10h	20h	
1.60V	210	173	98.9	61.0	25.1	17.6	10.8	5.50	
1.65V	197	164	95.0	60.6	24.6	17.3	10.6	5.45	
1.70V	182	156	92.2	59.7	24.1	17.0	10.4	5.40	
1.75V	170	145	89.3	58.9	23.5	16.6	10.2	5.35	
1.80V	156	136	87.4	57.1	22.8	16.3	10.0	5.30	

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

End Point									
Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h	
1.60V	372	304	186	138	119	68.2	48.4	33.8	
1.65V	353	299	180	134	117	67.0	47.8	33.6	
1.70V	335	290	176	132	116	65.8	47.3	33.3	
1.75V	317	279	170	129	112	64.6	46.7	33.2	
1.80V	296	270	164	126	109	63.9	45.9	32.9	

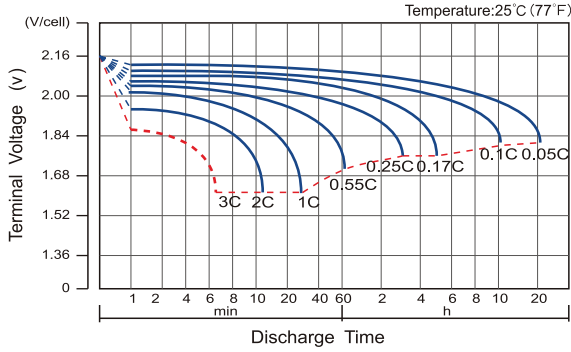
(Note)The above characteristics data are average values obtained within three charge/discharge cycles. All data shall be changed without notice, Neata reserves the right to explain and update the information.

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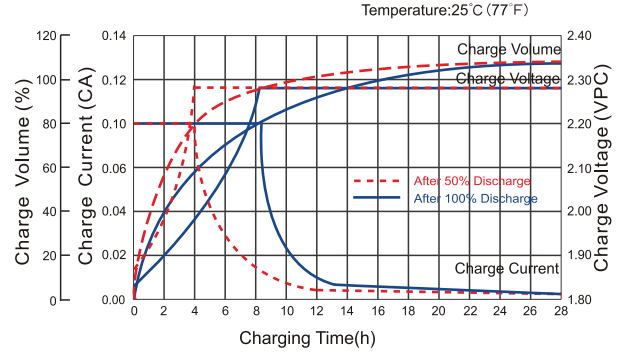
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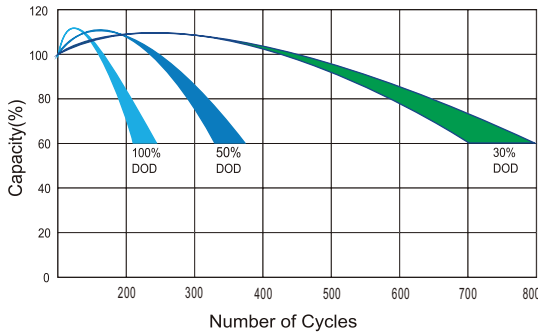
Discharge Characteristics Curve



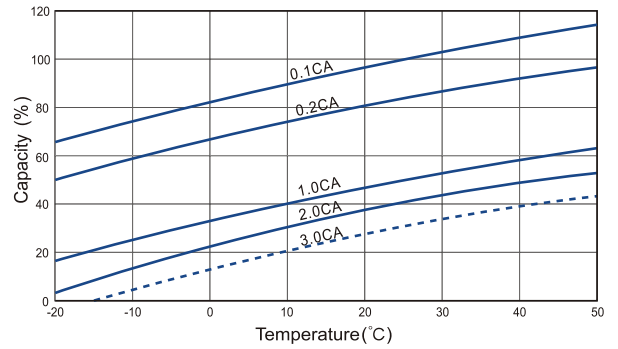
Charge Characteristic Curve For Standby Use



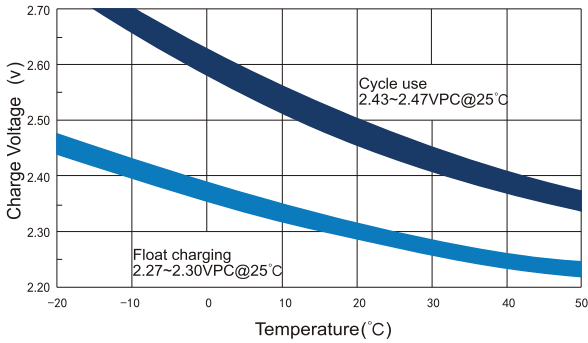
Cycle Life In Relation To Depth Of Discharge



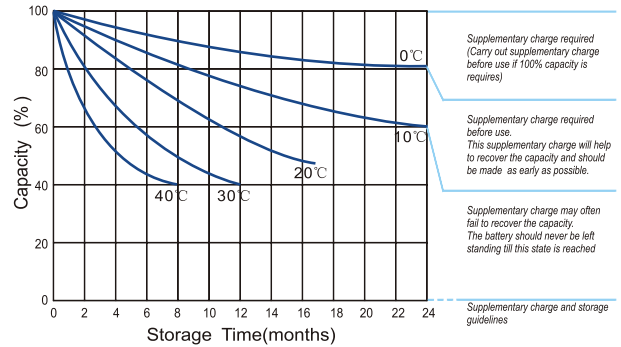
Temperature Effects On Capacity



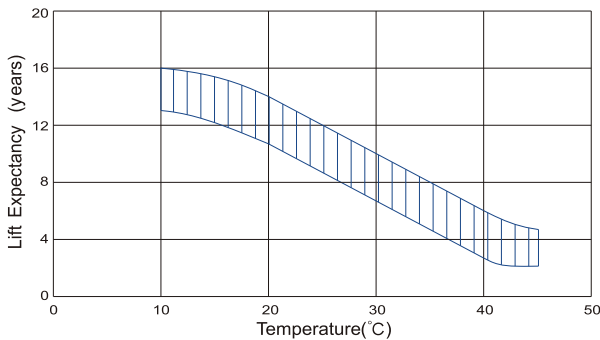
Relationship Between Charging Voltage And Temperature



Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use

