

Neata[®]

+ Super energy

Deep Cycle Long Life series

Datasheet : NTD12-175 (12V175AH)

Nominal Voltage	12V
Number of cell	6
Design Life	12 years
Nominal Capacity 77°F(25°C)	
20 hour rate (8.75A, 10.5V)	175Ah
5 hour rate (29.8A, 10.5V)	149Ah
1 hour rate (112.0A, 9.6V)	112Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	≤4.3mOhms
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)	1000(5s)
Short Circuit Current	3430A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	52.5A
Temperature compensation	-30mV/°C
Standby use	13.6-13.8V
Temperature compensation	-20mV/°C



Wide Range Temperature



Warranty



Maintenance Free



Deep cycle Technology



easy use

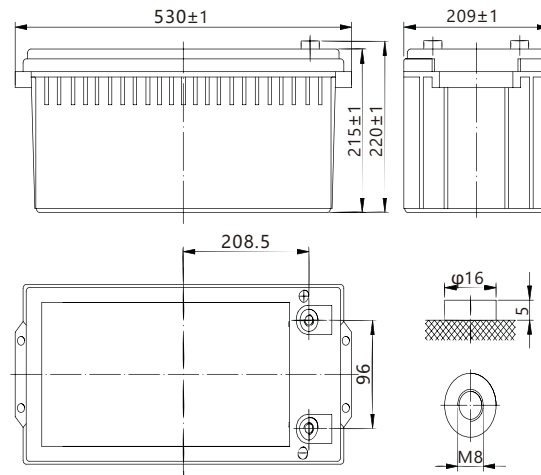


long life

Mechanical Characteristics

Length(mm / inch)	530 / 20.9
Width(mm / inch)	209 / 8.23
Height(mm / inch)	215 / 8.54
Total Height(mm / inch)	220 / 9.45
Approx. Weight(Kg / lbs)	55.0 / 121

* Weight deviation: ± 3%



Technical Characteristics

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

End Point	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	314	189	137	112	49.1	31.8	17.1	9.00
1.65V	299	181	133	109	47.9	31.0	16.8	8.94
1.70V	288	177	130	105	47.4	30.4	16.7	8.83
1.75V	270	172	126	102	46.4	29.8	16.4	8.75
1.80V	236	163	121	99	44.2	29.3	16.2	8.30

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

End Point	15min	30min	45min	1h	3h	5h	10h	20h
1.60V	564	356	261	205	92.8	60.6	33.7	18.1
1.65V	534	335	253	200	91.5	59.5	33.2	17.7
1.70V	508	329	246	195	90.2	58.6	32.9	17.6
1.75V	491	321	241	191	87.6	57.6	32.5	17.4
1.80V	470	315	238	189	85.4	56.6	32.1	17.3

(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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Recognized under CE/IEC and certified by ISO9001,14001

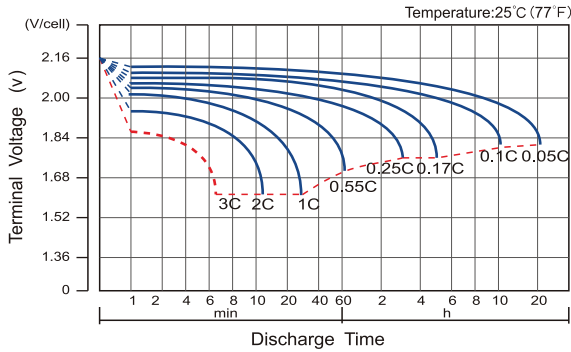


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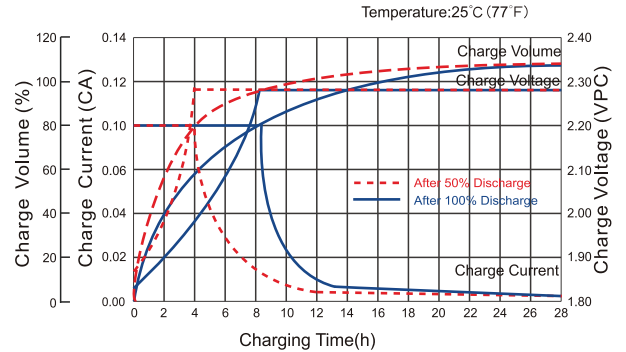
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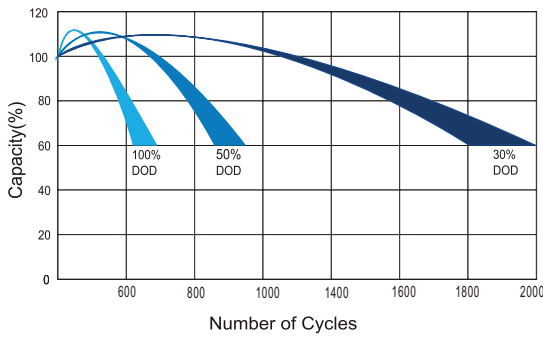
Discharge Characteristics Curve



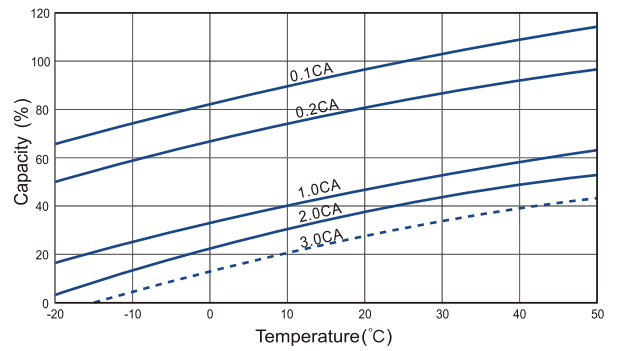
Charge Characteristic Curve For Standby Use



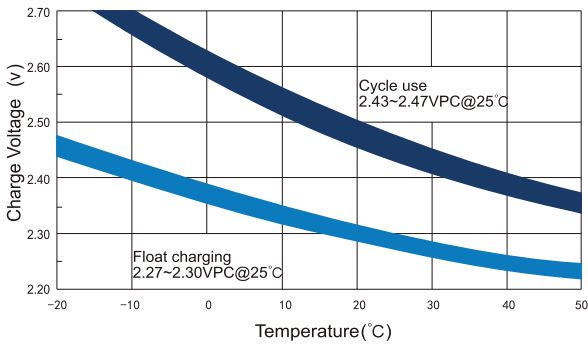
Cycle Life In Relation To Depth Of Discharge



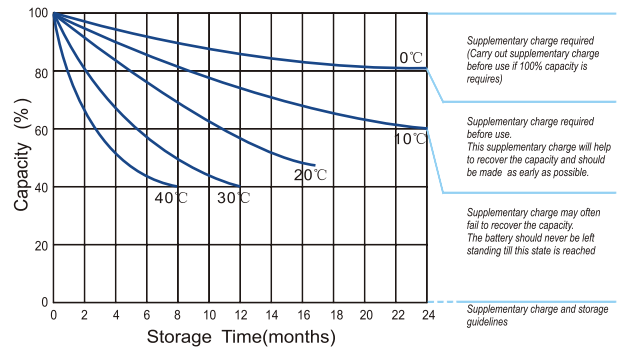
Temperature Effects On Capacity



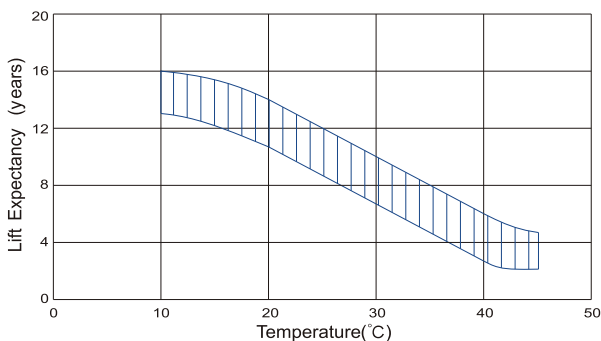
Relationship Between Charging Voltage And Temperature



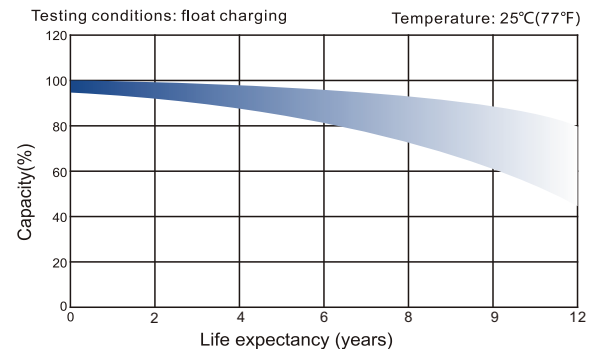
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



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