

Neata[®] Deep Cycle Long Life series

Datasheet : NTD12-28(12V28AH)

Nominal Voltage	12V
Number of cell	6
Design Life	12 years
Nominal Capacity 77°F(25°C)	
20 hour rate (1.40A, 10.5V)	28.00Ah
10 hour rate (2.65A, 10.5V)	26.50Ah
5 hour rate (4.81A, 10.5V)	24.0Ah
1 hour rate (19.6A, 9.6V)	19.60Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	≤11.0mOhms
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)	310(5s)
Short Circuit Current	1400A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	11.2A
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

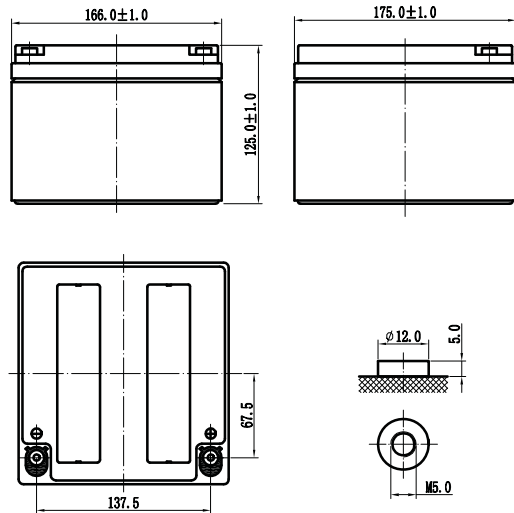


long life

Mechanical Characteristics

Length(mm / inch)	166 / 6.5
Width(mm / inch)	175 / 6.89
Height(mm / inch)	175 / 6.89
Total Height(mm / inch)	125 / 4.96
Approx. Weight(Kg / lbs)	8.1 / 17.82

* 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	112	73.0	55.0	32.0	19.6	8.02	5.20	2.81	1.45	
1.65V	106	69.5	52.6	30.7	18.9	7.77	5.08	2.77	1.44	
1.70V	100	65.9	50.1	29.4	18.1	7.50	4.95	2.71	1.42	
1.75V	93.9	62.2	47.5	28.0	17.3	7.20	4.80	2.65	1.40	
1.80V	87.6	58.5	44.8	26.5	16.5	6.88	4.63	2.58	1.38	

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

End Point										
Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h	
1.60V	208	135	105	61.7	46.7	36.7	24.0	16.0	10.4	
1.65V	195	127	99.3	58.6	44.5	35.1	23.3	15.6	10.2	
1.70V	183	119	93.6	55.4	42.3	33.5	22.5	15.2	10.0	
1.75V	170	111	87.8	52.2	40.0	31.8	21.6	14.4	9.9	
1.80V	157	104	82.0	49.0	37.7	30.1	20.7	13.8	9.8	

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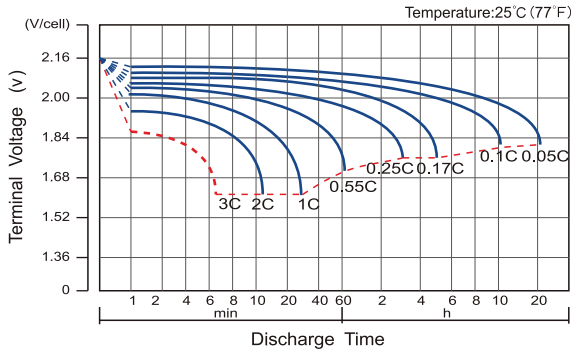
Recognized under CE/ IEC and certified by ISO9001 ,14001



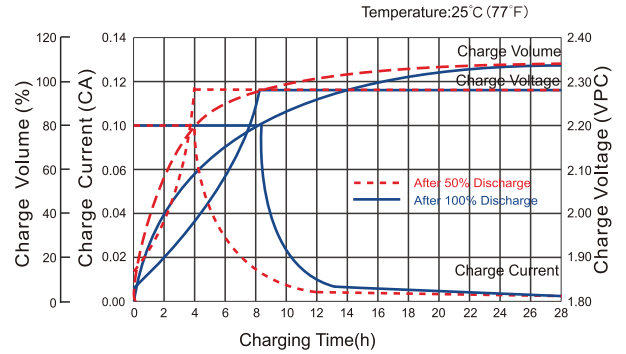
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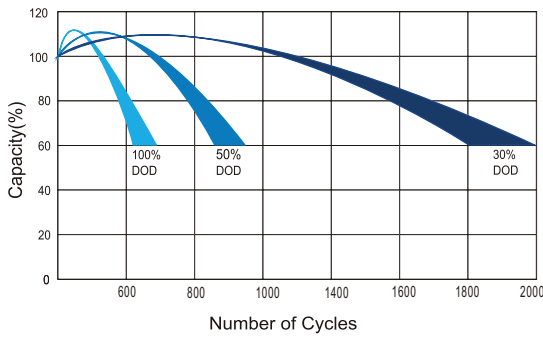
Discharge Characteristics Curve



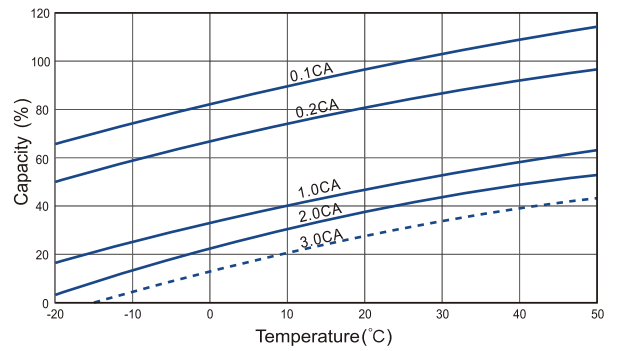
Charge Characteristic Curve For Standby Use



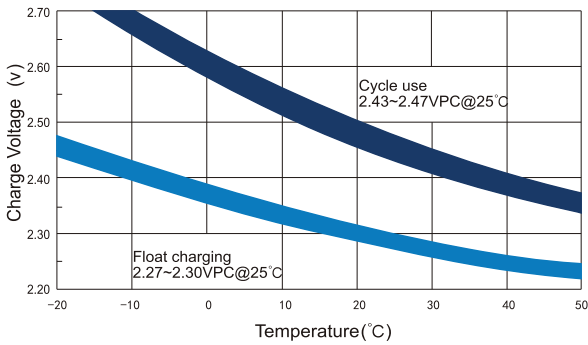
Cycle Life In Relation To Depth Of Discharge



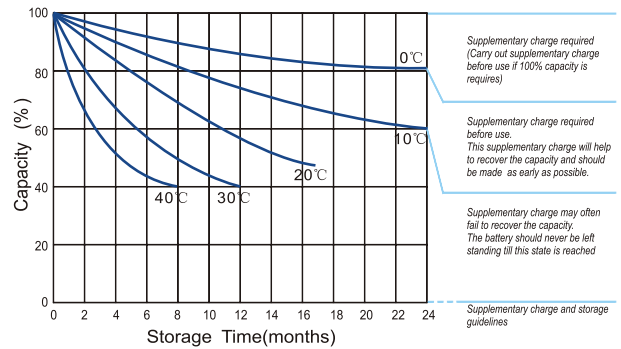
Temperature Effects On Capacity



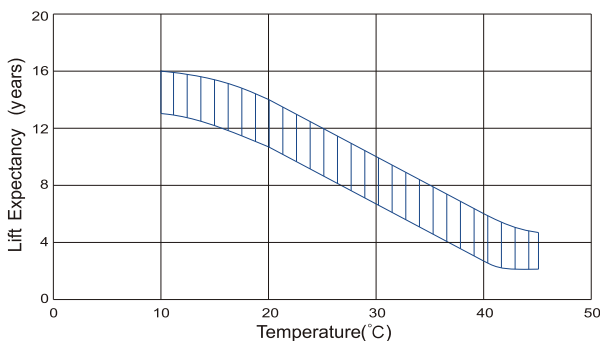
Relationship Between Charging Voltage And Temperature



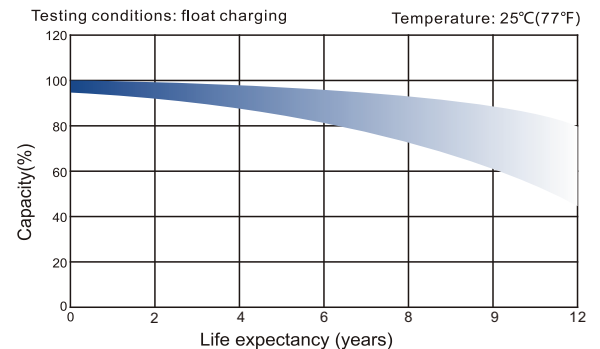
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



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