

Neata[®]

+ Super energy

Deep Cycle Long Life series

Datasheet : NTD12-80(12V80AH)

Nominal Voltage	12V
Number of cell	6
Design Life	12 years
Nominal Capacity 77°F(25°C)	
20 hour rate (4.0A, 10.5V)	80.0Ah
10 hour rate (7.20A, 10.5V)	72.0Ah
5 hour rate (13.3A, 10.5V)	66.5Ah
1 hour rate (48.2A, 9.6V)	48.2Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	≤6.0mOhms
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)	750(5s)
Short Circuit Current	1900A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	24A
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

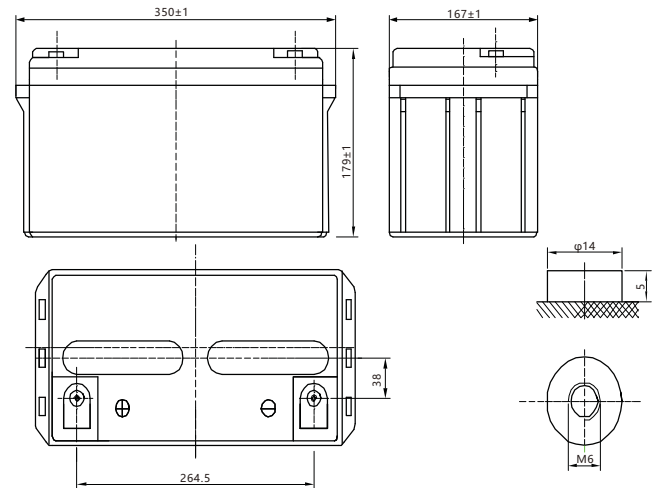


long life

Mechanical Characteristics

Length(mm / inch)	350 / 13.9
Width(mm / inch)	167 / 6.62
Height(mm / inch)	179 / 7.11
Total Height(mm / inch)	179 / 7.46
Approx. Weight(Kg / lbs)	22.5 / 49.5

* Weight deviation: ± 3%



Technical Characteristics

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

End Point									
Volts/Cell	10min	15min	30min	1h	3h	5h	10h	20h	
1.60V	163	130	76.7	47.6	20.2	13.5	7.38	3.85	
1.65V	154	120	72.9	45.8	20.0	13.3	7.34	3.84	
1.70V	145	115	70.5	44.2	19.7	13.1	7.29	3.82	
1.75V	138	110	68.1	41.8	19.4	12.9	7.25	3.80	
1.80V	129	103	65.9	41.1	18.4	12.6	7.20	3.78	

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

End Point									
Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h	
1.60V	280	225	145	109	87.4	54.0	37.8	25.0	
1.65V	268	218	138	108	86.7	53.5	36.5	24.5	
1.70V	259	215	133	103	83.2	52.6	35.9	24.2	
1.75V	248	203	131	101	81.8	51.6	35.4	24.0	
1.80V	238	190	128	98	78.5	50.7	34.6	23.6	

(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.

SHENZHEN OFFICE (CHINA)
Tel: +86-755-2691-9474
Fax: +86-755-2691-9474

Recognized under CE/ IEC and certified by ISO9001 ,14001



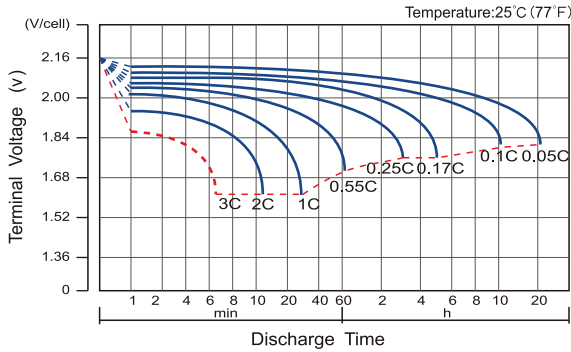
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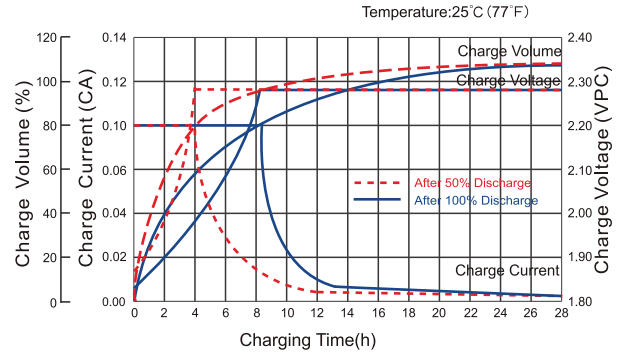
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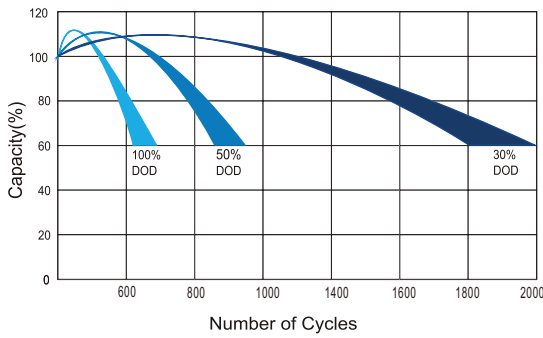
Discharge Characteristics Curve



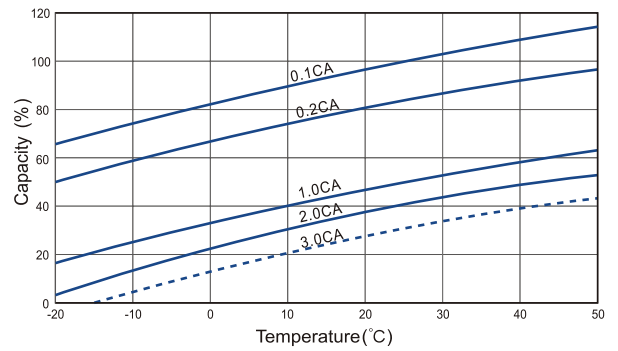
Charge Characteristic Curve For Standby Use



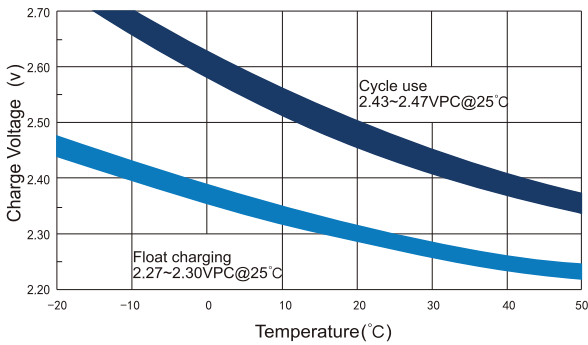
Cycle Life In Relation To Depth Of Discharge



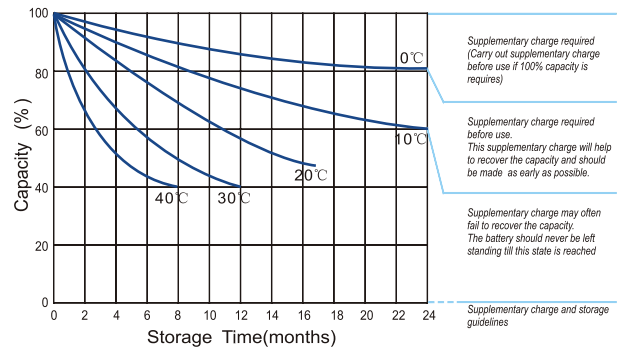
Temperature Effects On Capacity



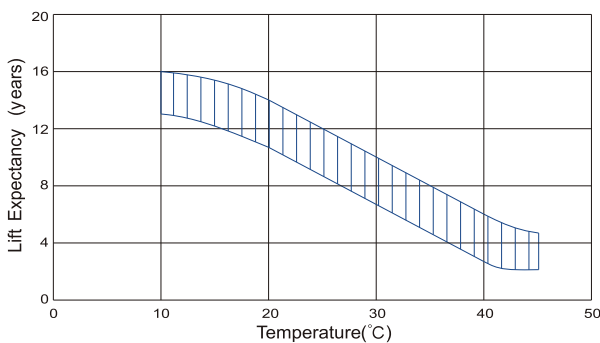
Relationship Between Charging Voltage And Temperature



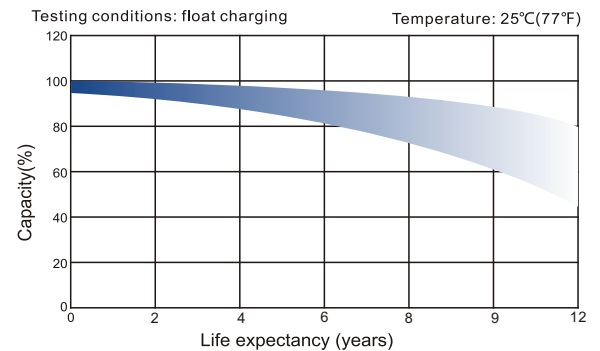
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



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