

Neata[®]

+ Super energy

Deep Cycle Long Life series

Datasheet : NTD12-24(12V24AH)

Nominal Voltage	12V
Number of cell	6
Design Life	12 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



Deep cycle Technology



easy use

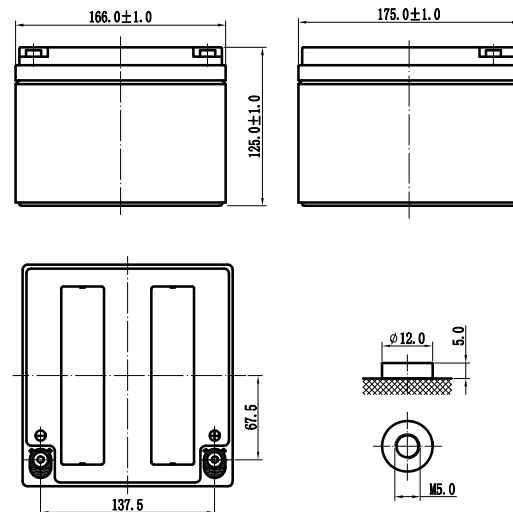


long life

Mechanical Characteristics

Length(mm / inch)	166 / 6.5
Width(mm / inch)	175 / 4.96
Height(mm / inch)	125 / 6.89
Total Height(mm / inch)	125 / 6.89
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	172	114	83.7	51.7	38.0	30.1	18.8	12.9	8.29	
1.65V	161	107	78.5	49.2	36.8	28.8	18.2	12.6	8.14	
1.70V	150	101	74.2	46.6	34.7	27.4	17.5	12.1	7.96	
1.75V	140	93.7	69.8	43.8	32.7	26.0	16.9	11.6	7.77	
1.80V	129	87.2	65.4	41.1	30.6	24.7	16.2	10.9	7.59	

(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

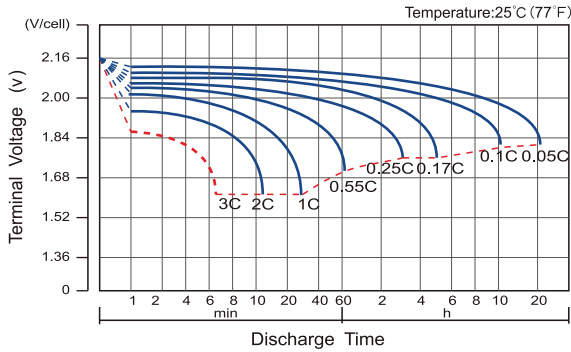


Neata //Shenzhen Neata Power Tech co.,Ltd//www.neata-batt.com

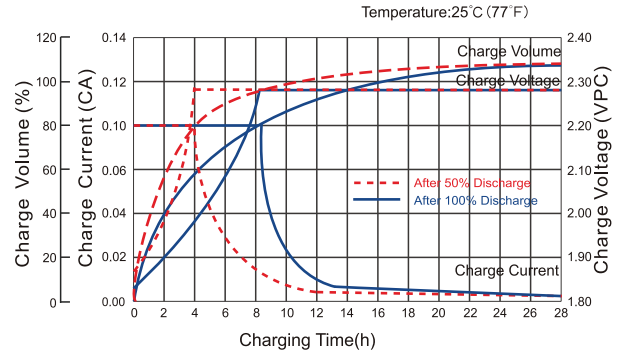
Neata[®] Deep Cycle Long Life series

Datasheet : NTD12-24(12V24AH)

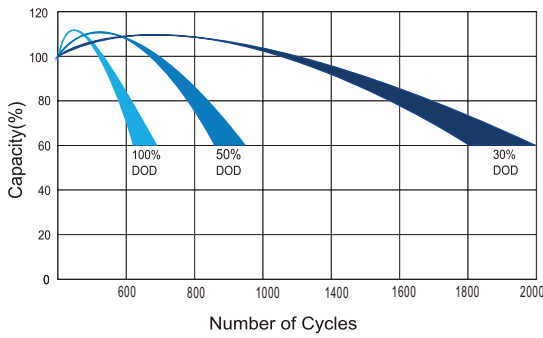
Discharge Characteristics Curve



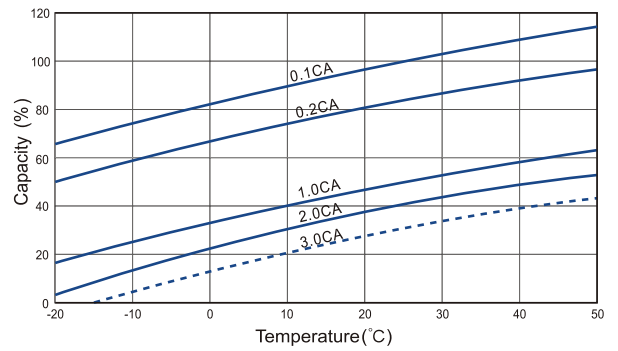
Charge Characteristic Curve For Standby Use



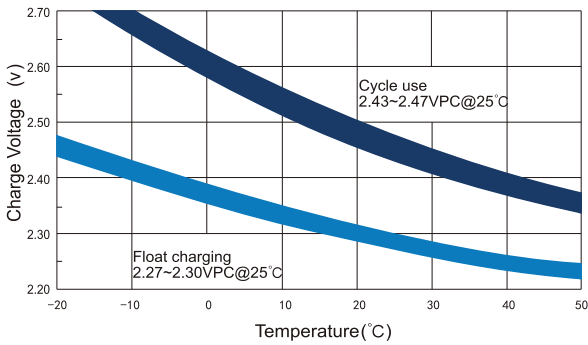
Cycle Life In Relation To Depth Of Discharge



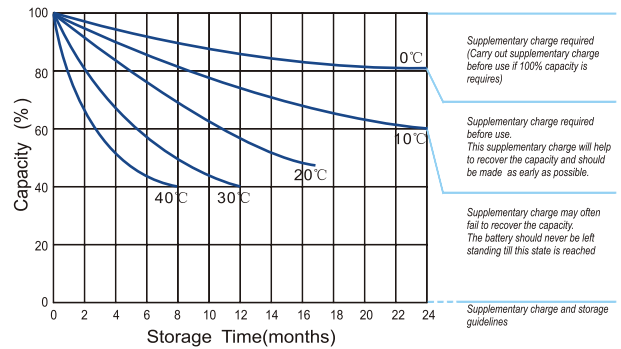
Temperature Effects On Capacity



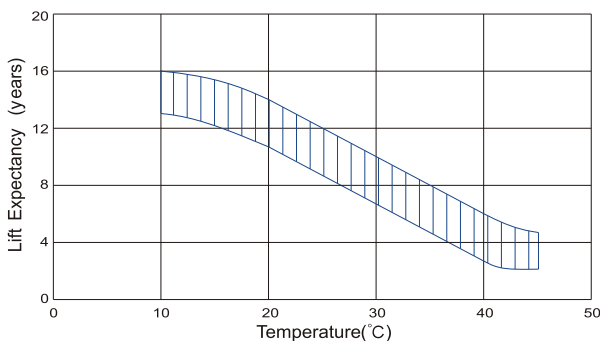
Relationship Between Charging Voltage And Temperature



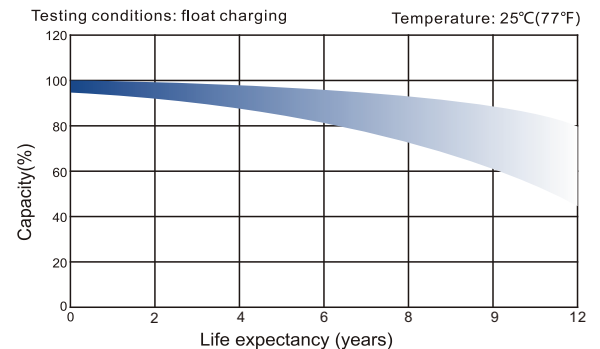
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



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

Recognized under CE/IEC and certified by ISO9001,14001

