

Neata[®] Deep Cycle Long Life series

Datasheet : NTD12-120(12V120AH)

Nominal Voltage	12V
Number of cell	6
Design Life	12 years
Nominal Capacity 77°F(25°C)	
20 hour rate (6.00A, 10.5V)	120Ah
10 hour rate (11.3A, 10.5V)	113Ah
5 hour rate (20.0A, 10.5V)	100Ah
1 hour rate (71.6A, 9.6V)	71.6Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	≤5.0mOhms
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)	950(5s)
Short Circuit Current	2250A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	36A
Temperature compensation	-30mV/°C
Standby use	13.6-13.8V
Temperature compensation	-20mV/°C

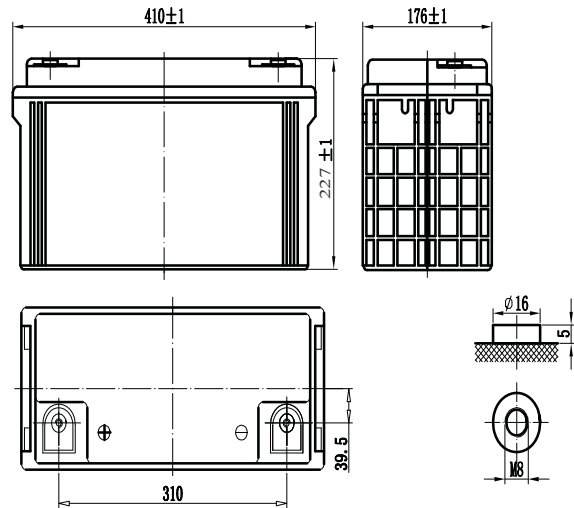


Wide Range Temperature	Warranty	Maintenance Free
Deep cycle Technology	easy use	long life

Mechanical Characteristics

Length(mm / inch)	410 / 16.10
Width(mm / inch)	176 / 6.85
Height(mm / inch)	227 / 9.37
Total Height(mm / inch)	227 / 9.37
Approx. Weight(Kg / lbs)	33.2 / 73.04

* 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	240	190	117	70.5	31.7	20.9	11.7	6.20	
1.65V	236	189	113	70.0	31.2	20.9	11.6	6.15	
1.70V	214	182	109	68.7	30.7	20.6	11.5	6.10	
1.75V	202	174	105	66.5	30.2	19.9	11.4	6.05	
1.80V	189	162	103	64.4	27.8	19.2	11.3	6.00	

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

End Point									
Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h	
1.60V	432	359	221	169	139	78.6	58.6	39.3	
1.65V	410	348	215	168	135	75.8	56.0	38.7	
1.70V	388	336	208	154	129	73.1	54.5	38.1	
1.75V	368	324	201	151	126	71.7	53.6	37.2	
1.80V	344	301	194	147	122	69.9	52.5	36.8	

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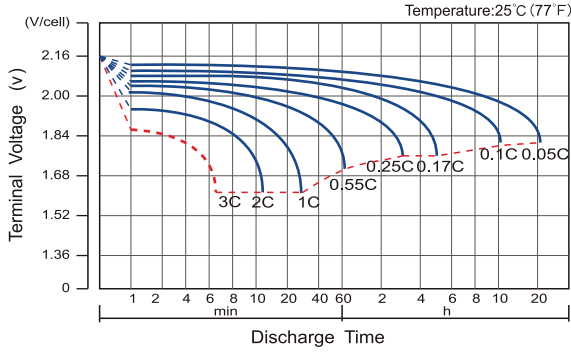
Recognized under CE/ IEC and certified by ISO9001 ,14001



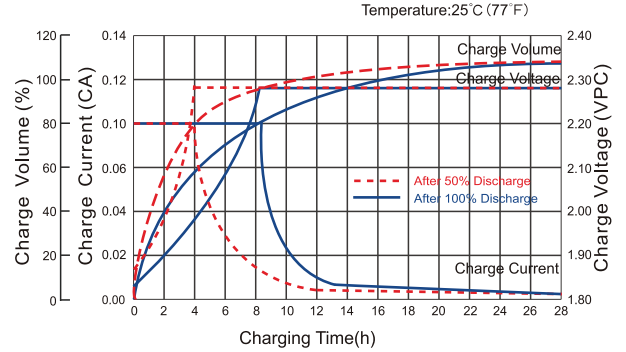
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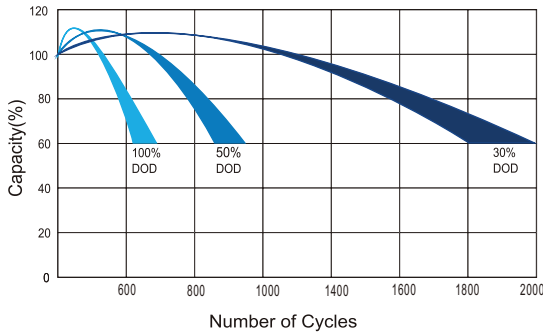
Discharge Characteristics Curve



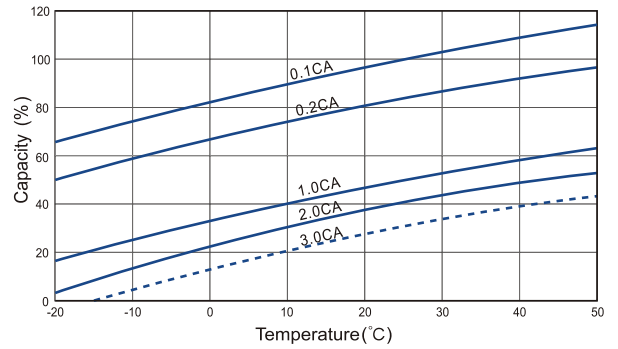
Charge Characteristic Curve For Standby Use



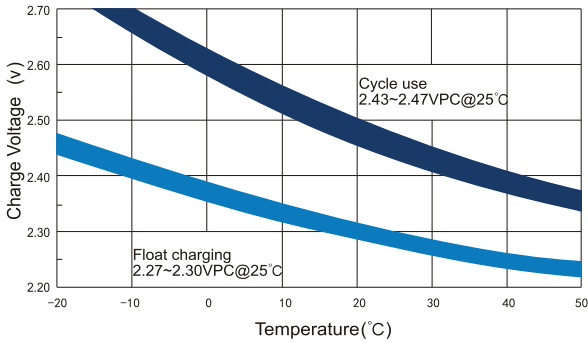
Cycle Life In Relation To Depth Of Discharge



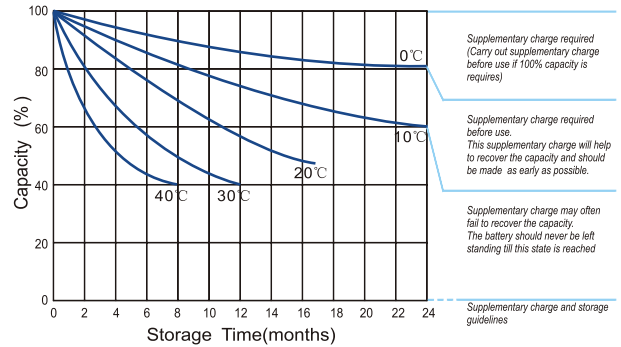
Temperature Effects On Capacity



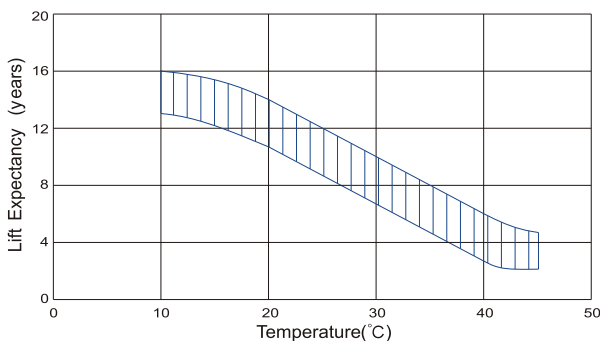
Relationship Between Charging Voltage And Temperature



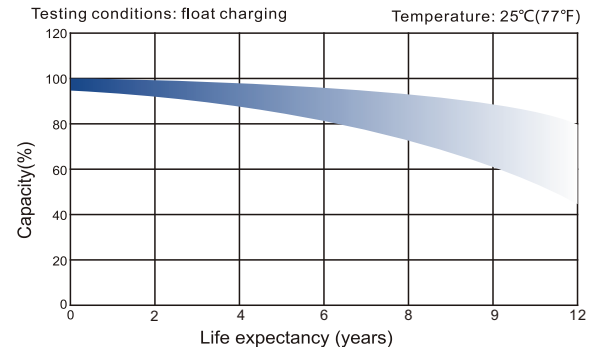
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



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