

# Neata<sup>®</sup> Deep Cycle Long Life series

## Datasheet : NTD12-90(12V90AH)

<b>Nominal Voltage</b>	12V
<b>Number of cell</b>	6
<b>Design Life</b>	12 years
<b>Nominal Capacity 77°F(25°C)</b>	
20 hour rate (4.5A, 10.5V)	90Ah
10 hour rate (8.86A, 10.5V)	88.6Ah
5 hour rate (16.1A, 10.5V)	80.5Ah
1 hour rate (61.1A, 9.6V)	61.1Ah
<b>Internal Resistance</b>	
Fully Charged battery 77°F(25°C)	≤5.1mOhms
<b>Self-Discharge</b>	
3% of capacity declined per month at 20°C(average)	
<b>Operating Temperature Range</b>	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
<b>Max. Discharge Current 77°F(25°C)</b>	800(5s)
<b>Short Circuit Current</b>	2000A
<b>Charge Methods:</b> Constant Voltage Charge 77°F(25°C)	
Cycle use	2.40-2.45VPC
<b>Maximum charging current</b>	27A
<b>Temperature compensation</b>	-30mV/°C
<b>Standby use</b>	13.6-13.8V
<b>Temperature compensation</b>	-20mV/°C





Wide Range Temperature



Warranty



Maintenance Free



Deep cycle Technology



easy use

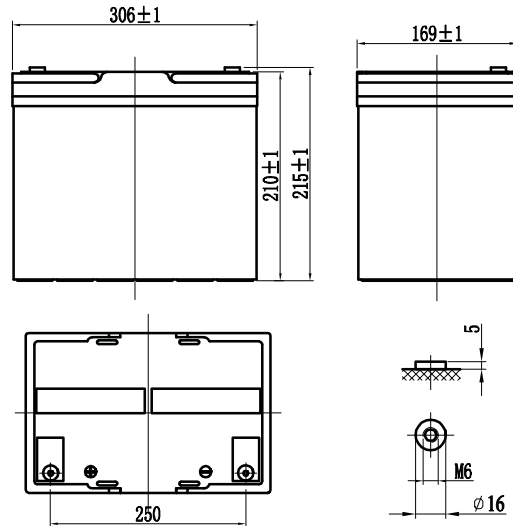


long life

### Mechanical Characteristics

Length(mm / inch)	306 / 12.15
Width(mm / inch)	169 / 6.62
Height(mm / inch)	210 / 8.33
Total Height(mm / inch)	215 / 8.53
Approx. Weight(Kg / lbs)	27 / 59.4

\* Weight deviation: ± 3%



### Technical Characteristics

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

End Point									
Volts/Cell	10min	15min	30min	45min	1h	3h	5h	10h	
1.60V	210	168	97.6	73.2	61.1	26.7	17.1	8.98	
1.65V	200	157	92.7	70.1	55.8	25.7	16.9	8.96	
1.70V	179	149	87.8	66.6	55.2	24.8	16.6	8.93	
1.75V	168	138	85.2	64.2	53.8	24.0	16.1	8.90	
1.80V	157	128	82.1	61.8	51.6	22.9	15.6	8.86	

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

End Point									
Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h	
1.60V	359	299	184	142	115	64.7	47.8	32.1	
1.65V	350	294	176	136	110	63.3	47.7	31.7	
1.70V	332	276	167	126	105	61.0	46.3	31.3	
1.75V	330	273	163	125	101	59.0	45.0	30.5	
1.80V	302	259	159	123	99.5	58.3	44.8	30.1	

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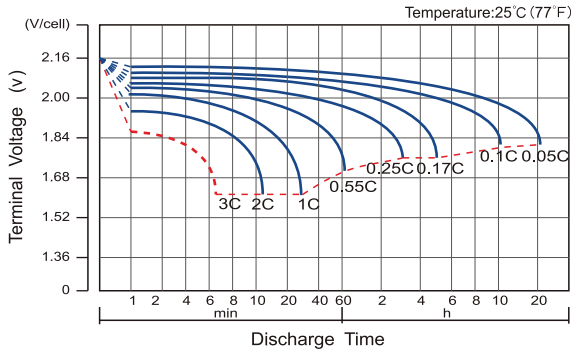
Recognized under CE/ IEC and certified by ISO9001 ,14001



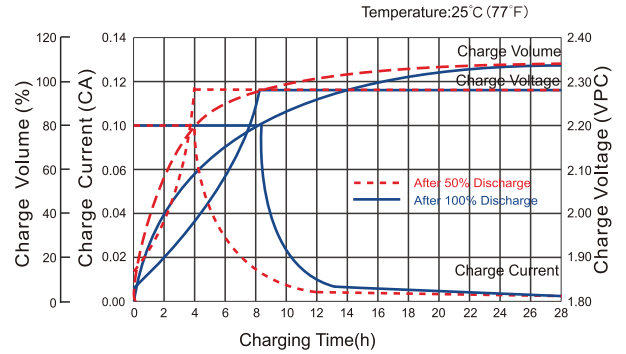
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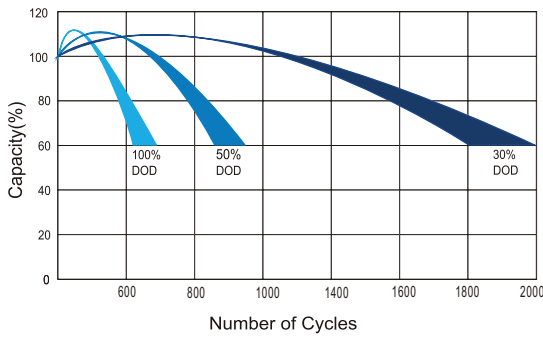
### Discharge Characteristics Curve



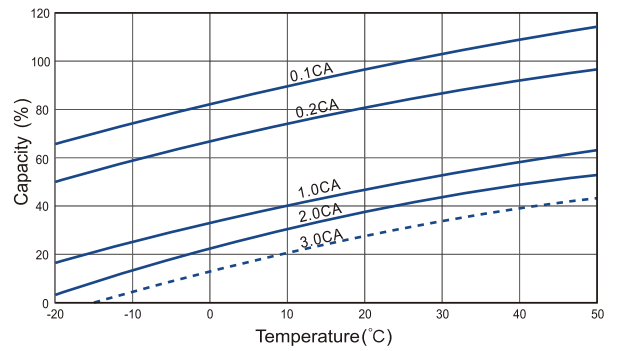
### Charge Characteristic Curve For Standby Use



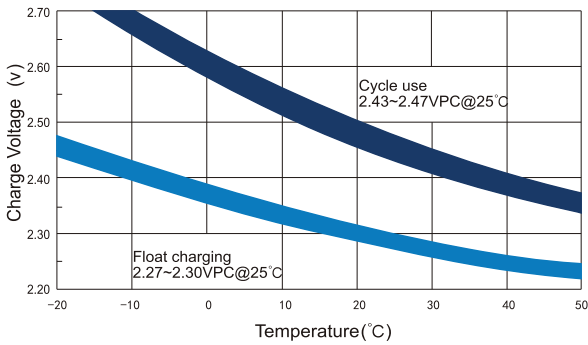
### Cycle Life In Relation To Depth Of Discharge



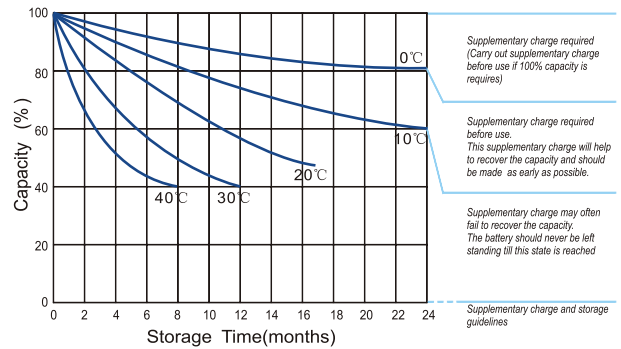
### Temperature Effects On Capacity



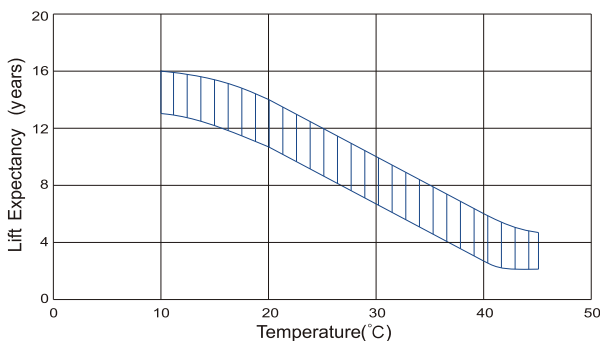
### Relationship Between Charging Voltage And Temperature



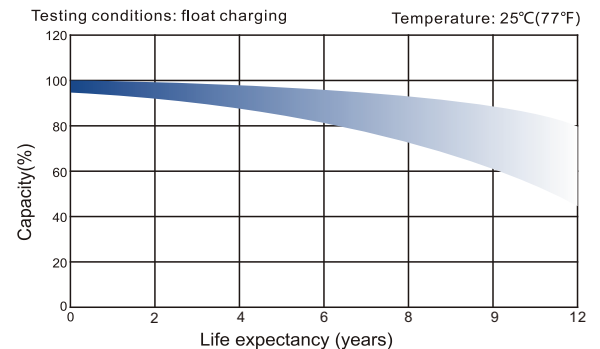
### Storage Characteristics



### Effect Of Temperature On Long Term Life



### Life Characteristics Of Standby Use



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