

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

Datasheet : NTD12-75(12V75AH)

<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 (3.75A, 10.5V)	75.0Ah
10 hour rate (7.50A, 10.5V)	74.1Ah
5 hour rate (13.4A, 10.5V)	67.0Ah
1 hour rate (51.2A, 9.6V)	51.2Ah
<b>Internal Resistance</b>	
Fully Charged battery 77°F(25°C)	≤6.5mOhms
<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>	700(5s)
<b>Short Circuit Current</b>	1800A
<b>Charge Methods:</b> Constant Voltage Charge 77°F(25°C)	
<b>Cycle use</b>	2.40-2.45VPC
<b>Maximum charging current</b>	22.5A
<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

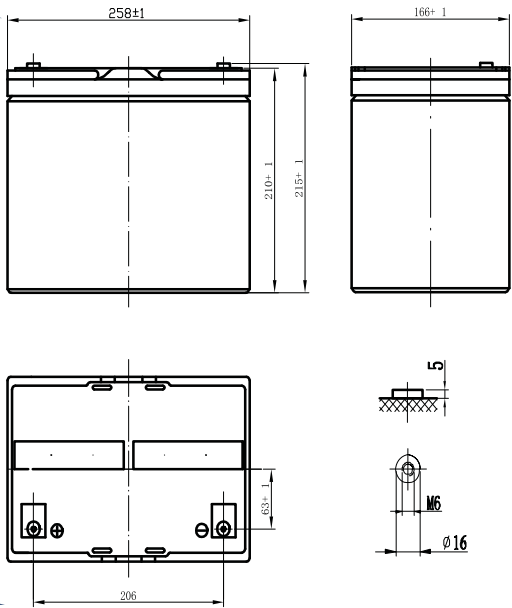


long life

## Mechanical Characteristics

Length(mm / inch)	258/ 10.1
Width(mm / inch)	166/ 6.53
Height(mm / inch)	210 /8.26
Total Height(mm / inch)	215 /8.46
Approx. Weight(Kg / lbs)	21/46.2

\* 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	171	133	79.8	49.5	21.6	14.2	7.54	3.94	
1.65V	162	127	76.3	46.8	21.2	14.0	7.51	3.90	
1.70V	152	118	75.1	46.2	20.8	13.8	7.48	3.85	
1.75V	145	114	71.8	44.6	20.4	13.4	7.45	3.80	
1.80V	133	109	71.3	42.8	19.6	13.2	7.41	3.75	

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

End Point	Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	301	239	154	118	94.3	53.4	39.8	26.7	
1.65V	288	234	149	116	92.2	52.1	38.8	26.5	
1.70V	278	230	141	109	88.5	50.9	38.5	25.9	
1.75V	263	216	139	109	85.2	49.7	37.9	25.9	
1.80V	251	206	138	104	82.9	49.0	37.6	25.7	

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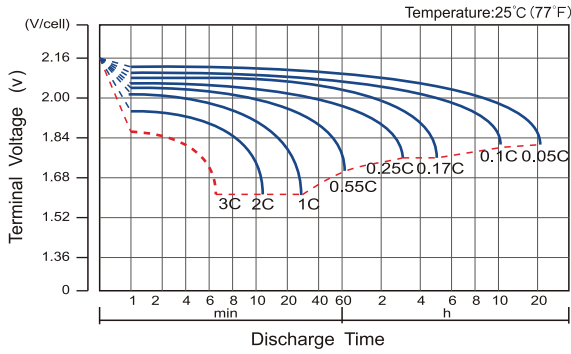
Recognized under CE/ IEC and certified by ISO9001 ,14001



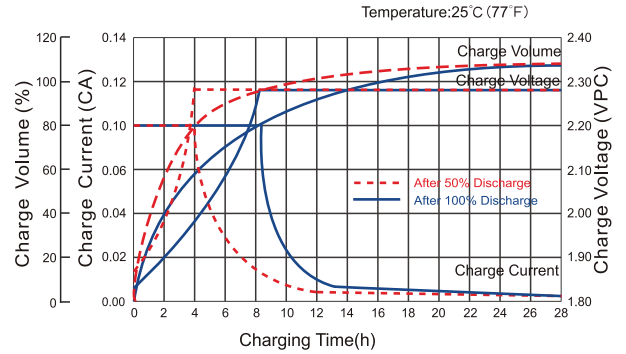
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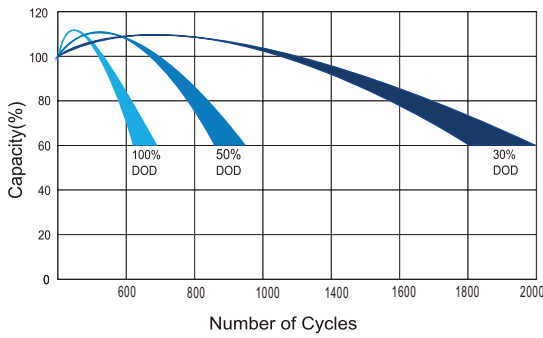
### Discharge Characteristics Curve



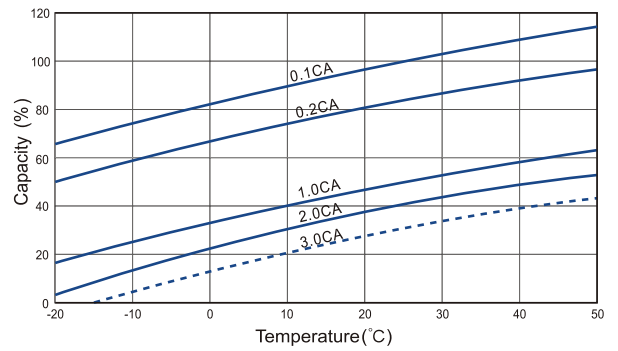
### Charge Characteristic Curve For Standby Use



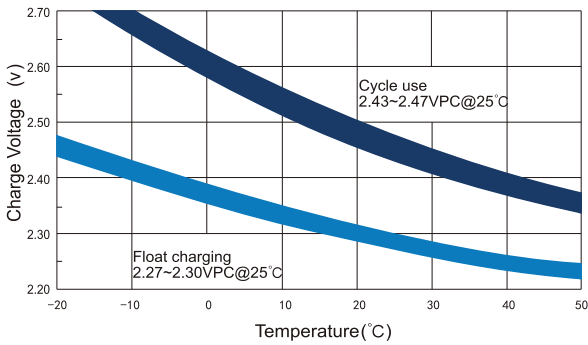
### Cycle Life In Relation To Depth Of Discharge



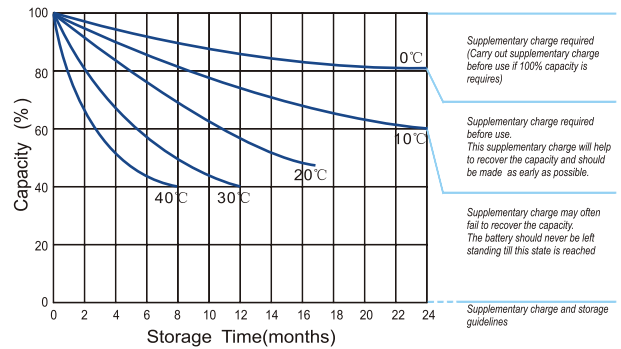
### Temperature Effects On Capacity



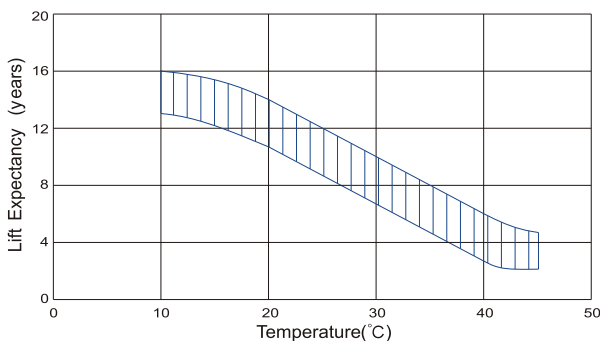
### Relationship Between Charging Voltage And Temperature



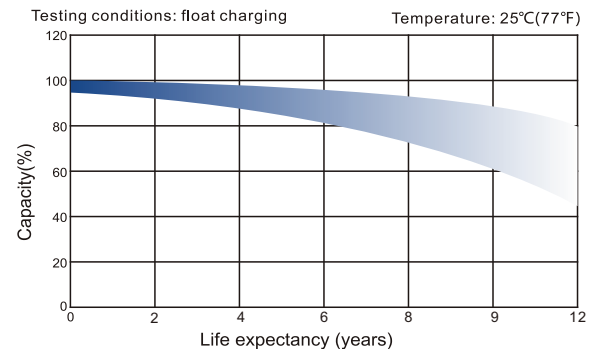
### Storage Characteristics



### Effect Of Temperature On Long Term Life



### Life Characteristics Of Standby Use



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