



Deep Cycle Long Life series

Datasheet : NTD12-10(12V10AH)

Nominal Voltage	12V
Number of cell	6
Design Life	12 years
Nominal Capacity 77°F(25°C)	
20 hour rate (0.50A, 10.5V)	10.0Ah
10 hour rate (0.93A, 10.5V)	9.30Ah
5 hour rate (1.69A, 10.5V)	8.45Ah
1 hour rate (6.90A, 9.6V)	6.90Ah

Internal Resistance
Fully Charged battery 77°F(25°C) ≤30mOhms

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)	150A(5s)
Short Circuit Current	500A
Charge Methods: Constant Voltage Charge 77°F(25°C)	
Cycle use	2.40-2.45VPC
Maximum charging current	4.0A
Temperature compensation	-30mV/°C
Standby use	2.23-2.30VPC
Temperature compensation	-20mV/°C

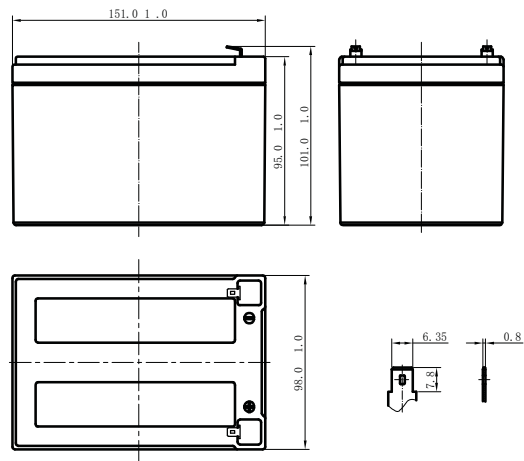


Wide Range Temperature	Warranty	Maintenance Free
Deep cycle Technology	easy use	long life

Mechanical Characteristics

Length(mm / inch)	151 / 5.94
Width(mm / inch)	98 / 3.86
Height(mm / inch)	95 / 3.74
Total Height(mm / inch)	101 / 3.98
Approx. Weight(Kg / lbs)	3.16 / 6.95

* 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	-----	26.0	20.9	12.0	6.90	2.92	1.92	0.99	0.52	
1.65V	-----	24.8	19.9	11.4	6.65	2.85	1.84	0.97	0.51	
1.70V	-----	23.9	18.8	10.7	6.39	2.71	1.76	0.95	0.51	
1.75V	-----	23.1	17.7	10.0	6.10	2.55	1.69	0.93	0.50	
1.80V	-----	21.5	16.6	9.30	5.81	2.44	1.63	0.91	0.49	

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

End Point	Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	-----	51.3	41.5	23.9	17.8	13.7	8.00	5.74	3.80	
1.65V	-----	48.7	39.4	22.7	16.9	13.0	7.68	5.50	3.60	
1.70V	-----	46.2	37.3	21.5	15.9	12.2	7.36	5.28	3.41	
1.75V	-----	43.7	35.3	20.0	14.9	11.4	7.08	5.08	3.34	
1.80V	-----	41.0	33.2	18.8	13.8	10.6	6.80	4.87	3.22	

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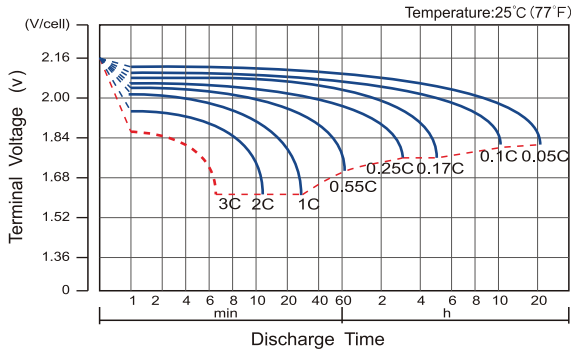
Recognized under CE/IEC and certified by ISO9001 ,14001



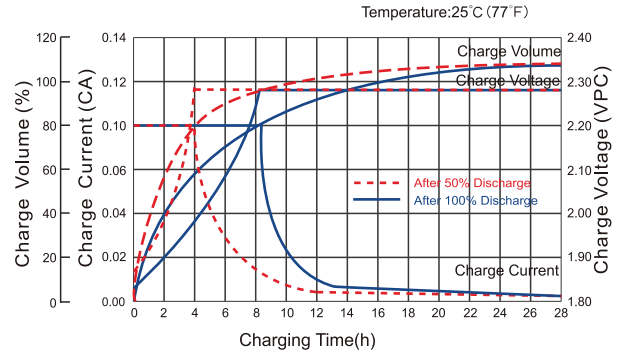
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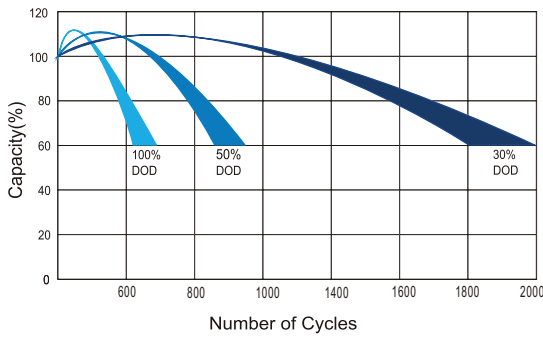
Discharge Characteristics Curve



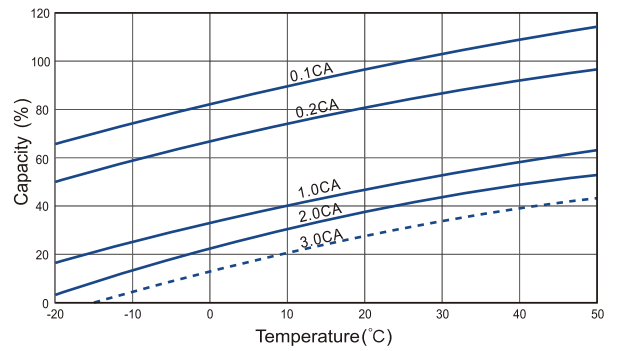
Charge Characteristic Curve For Standby Use



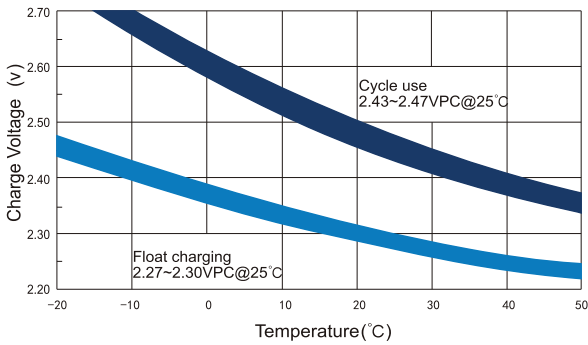
Cycle Life In Relation To Depth Of Discharge



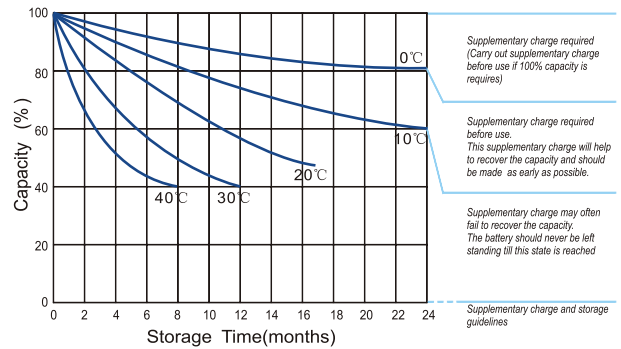
Temperature Effects On Capacity



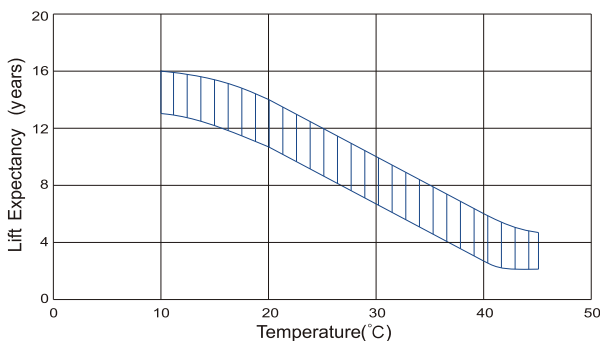
Relationship Between Charging Voltage And Temperature



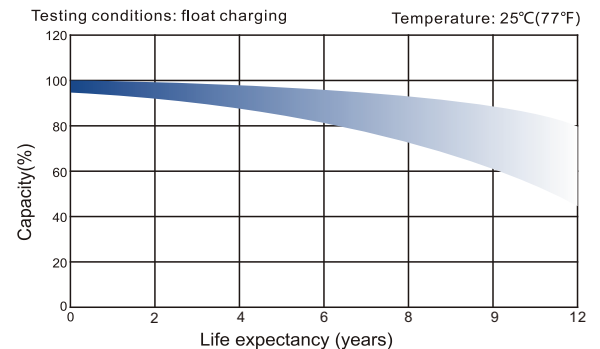
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



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