DATASHEET NS12-240L

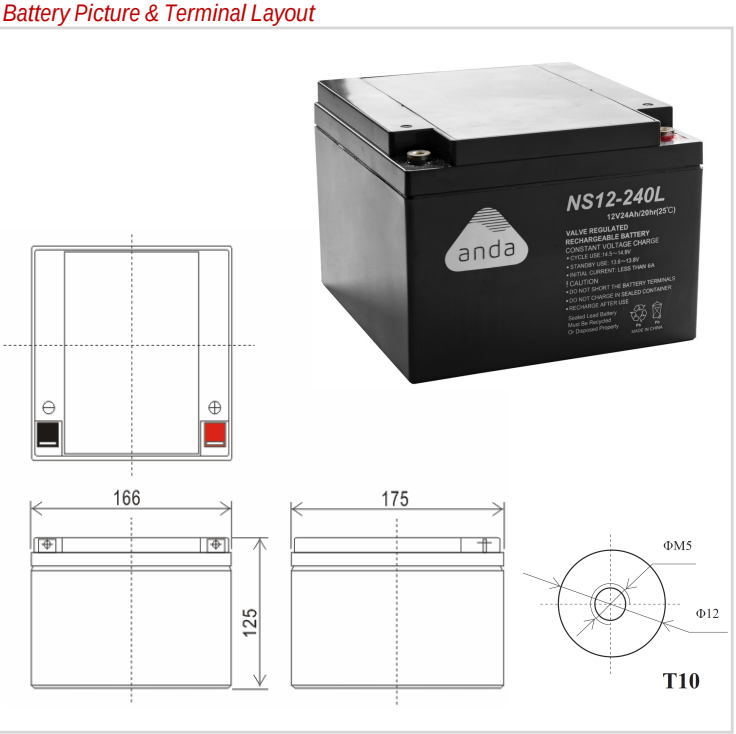
Introduction

Anda NSL (7Ah-28Ah) series is designed for standby use with 10-year design life in float service. The series battery is featured of high consistency, excellent performance and reliable standby service life. It is widely applied in UPS/EPS, medical equipment, emergency light and security system.

Battery Features

- Low self-discharge
- Fully tank formed plates
- Low impurity electrolyte
- Spill proof / leak proof
- Multi-position usage
- ABS case and cover VO upon request
- very high purity lead

Battery Picture & Terminal Layout



Electrical Specification

Design floating Life @ 25°C (77°F)	10 years
Nominal Capacity @ 25°C /77°F	
20 hour rate 1.2A to 1.75Vpc	24 Ah
10 hour rate 2.27A to 1.75Vpc	22.7 Ah
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	11 mΩ
Max. Discharge Current @ 25°C /77°F	420 A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	14.7 ~ 14.9V
Max. Current	6 A
Standby Use	13.6 - 13.8V
Operating Temperature Range	-30 ~ 50°C

Notes: battery voltage must be adjusted according to temperature. Please refer to our recommendation.

Self-Discharge

3% of capacity declined per month @ 25°C (77°F).

Dimension & Weight

Dimension (± 2mm)				Weight
Length	Width	Height	Total Height	(± 2%)
166 mm	175 mm	125 mm	125 mm	7.85 kg
6.5 inch	6.9 inch	4.9 inch	4.9 inch	17.3 lbs

Typical Applications

- UPS & EPS
- Security Power Supply
- Power Utility
- Electrical Toys

Constant Current Discharge (Amperes @ 25°C /77°F)

V/cell	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	1hr	2hr	3hr	4hr	5hr	10hr	20hr
1.60	61.62	47.04	40.91	34.78	29.85	26.47	24.29	22.11	20.32	19.04	18.06	9.30	6.40	5.02	4.33	2.37	1.24
1.65	59.01	45.05	39.22	33.40	28.77	25.51	23.45	21.39	19.73	18.56	17.70	9.09	6.25	4.91	4.26	2.34	1.24
1.70	56.41	43.06	37.53	32.00	27.66	24.53	22.59	20.65	19.11	18.08	17.34	8.88	6.13	4.81	4.19	2.30	1.20
1.75	53.81	41.07	35.86	30.64	26.63	23.60	21.78	19.95	18.53	17.60	16.98	8.67	5.95	4.69	4.13	2.27	1.20
1.80	51.20	39.09	34.21	29.33	25.66	22.73	21.01	19.29	17.96	17.14	16.62	8.46	5.77	4.56	4.06	2.23	1.17

Constant Power Discharge (Watts/cell @ 25°C /77°F)

V/cell	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	1hr	2hr	3hr	4hr	5hr	10hr	20hr
1.60	118.03	90.10	77.97	65.84	56.62	50.07	46.43	42.78	39.84	37.69	35.85	18.72	12.94	10.07	7.91	4.81	2.62
1.65	113.25	86.45	74.82	63.20	54.47	48.04	44.51	40.98	38.16	36.13	34.40	17.88	12.63	9.85	7.77	4.77	2.55
1.70	108.48	82.81	71.80	60.79	52.68	46.31	42.84	39.37	36.60	34.63	32.95	17.03	12.32	9.63	7.63	4.72	2.50
1.75	104.58	79.83	69.10	58.36	50.53	44.27	40.92	37.57	34.91	33.06	31.51	16.19	11.98	9.39	7.50	4.66	2.49
1.80	99.80	76.19	66.07	55.95	48.74	42.61	39.38	36.15	33.62	31.89	30.46	15.58	11.60	9.09	7.29	4.60	2.36

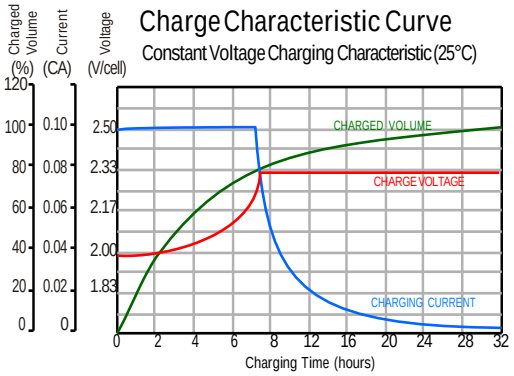
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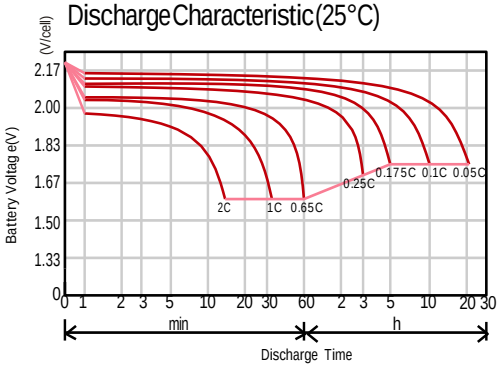
Graphs

Charge Characteristic Curve

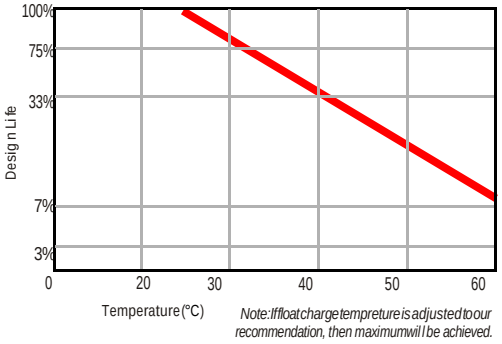
Constant Voltage Charging Characteristic (25°C)



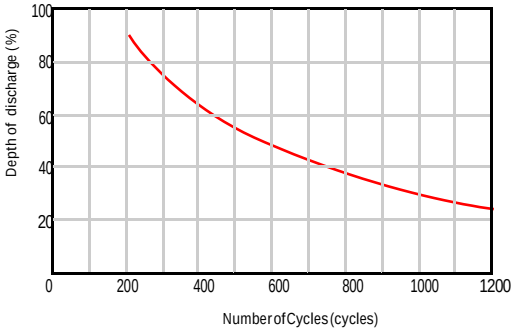
Discharge Characteristic (25°C)



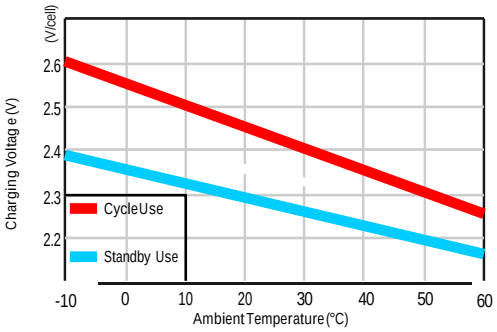
Temperature Effects On Float Life



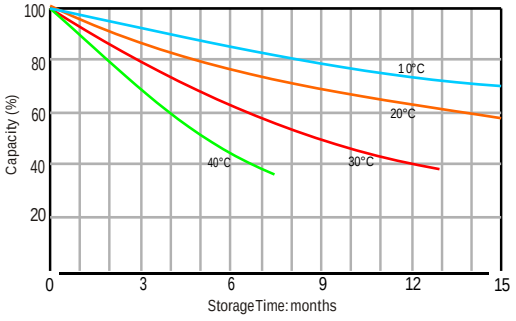
Cycle Service Life V.S. Depth Of Discharge



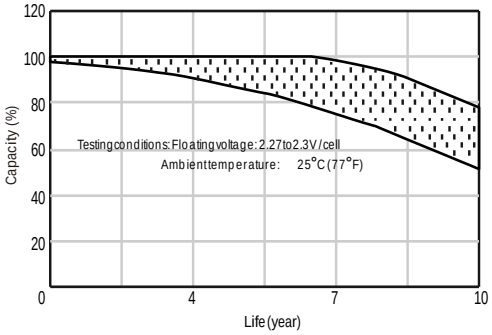
Charging Voltage V.S. Temperature



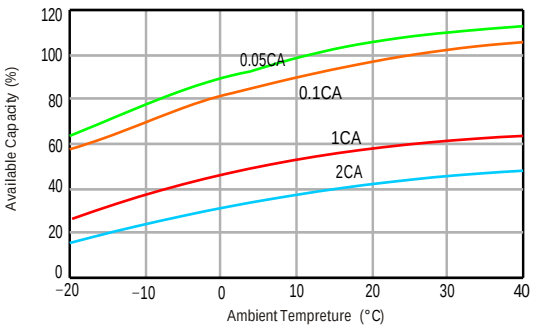
Self-Discharge Characteristic



Life Characteristics Of Standby Use



Temperature Effects On Capacity



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