

NPH12-35W [12V8AH]

Feature

- ◆ 15 years design life in float service.
- ◆ Special anti-high-temperature paste formula.
- ◆ Special anti-high-temperature container.
- ◆ Special double sealing and anti-high-temperature sealing agent.
- ◆ High Performance separator and special electrolyte formula.
- ◆ Combine with AGM valve regulated technology and high purity raw materials.
- ◆ Maintains high consistency for better performance and reliable standby service life.

Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	8Ah@10hr-rate to 1.80V per cell @25 °C
Standard	IEC 60896 / IEC 61427
Internal Resistance	Approx. 20.0 mΩ
Terminal	F2
Max. Discharge Current	127.5A(5 sec)
Design Life	15 years (float charging)
Maximum Charging Current	2.40A
Cycle Use Voltage	14.4 V~15.0 V @ 35°C Temperature Compensation: -30mV/°C
Operating Temperature Range	Discharge: - 40°C ~ 65°C Charge: -15°C ~60°C Storage: - 40°C ~ 60°C
Normal Operating Temperature Range	35°C±5°C
Self Discharge	The batteries can be stored for up to 9 months at 35°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 35°C. Please charge batteries before using.
Container Material	ABS



Application

- ◆ Home energy storage system
- ◆ Tele-communication base station
- ◆ High temperature station without air-condition
- ◆ Station in the open air
- ◆ Solar power generation grid or off-grid energy storage system
- ◆ Electric power system , UPS
- ◆ Renewable energy communication base station power supply system
- ◆ Humid environment

ISO9001 ISO14001



Constant Current Discharge (Amperes) at 35°C (95°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	19.6	13.9	11.7	9.92	7.41	5.50	4.40	2.62	1.95	1.58	1.33	1.15	0.911	0.753	0.415
1.80V/cell	23.4	16.0	13.1	10.9	8.11	5.93	4.73	2.80	2.07	1.67	1.40	1.21	0.961	0.793	0.425
1.75V/cell	26.1	17.4	14.1	11.6	8.45	6.15	4.90	2.88	2.12	1.70	1.43	1.23	0.978	0.806	0.434
1.70V/cell	28.5	18.8	14.8	12.1	8.77	6.36	5.04	2.96	2.17	1.74	1.45	1.25	0.992	0.816	0.439
1.65V/cell	30.9	19.8	15.4	12.5	9.06	6.56	5.20	3.01	2.22	1.76	1.48	1.27	1.003	0.825	0.443
1.60V/cell	32.6	20.6	15.9	12.8	9.32	6.72	5.31	3.08	2.25	1.80	1.50	1.29	1.013	0.832	0.446

Constant Power Discharge (Watts/cell) at 35°C (95°F)

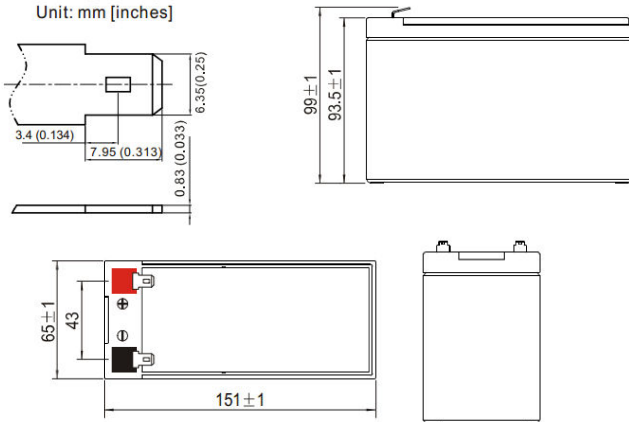
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	36.9	26.4	22.4	19.2	14.5	10.8	8.67	5.18	3.88	3.15	2.67	2.32	1.83	1.52	0.839
1.80V/cell	43.6	30.2	24.9	21.1	15.8	11.6	9.28	5.53	4.10	3.32	2.80	2.43	1.93	1.59	0.855
1.75V/cell	48.4	32.7	26.7	22.2	16.3	12.0	9.61	5.67	4.18	3.36	2.83	2.45	1.95	1.61	0.869
1.70V/cell	51.9	34.8	27.7	22.9	16.8	12.3	9.79	5.77	4.26	3.41	2.86	2.48	1.96	1.62	0.872
1.65V/cell	55.5	36.2	28.4	23.4	17.2	12.5	10.0	5.83	4.31	3.44	2.89	2.49	1.97	1.63	0.874
1.60V/cell	57.2	36.7	28.9	23.6	17.4	12.7	10.1	5.92	4.34	3.48	2.92	2.52	1.98	1.64	0.876

Specifications subject to change without prior notice.

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Dimensions

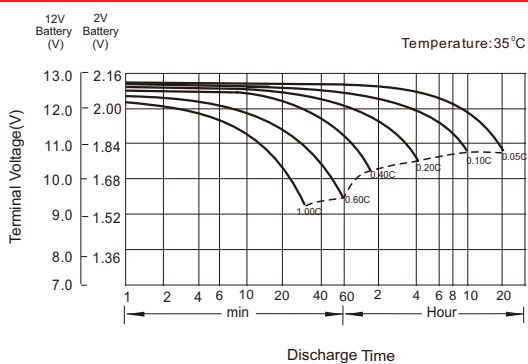
■ F2 Terminal
Unit: mm [inches]



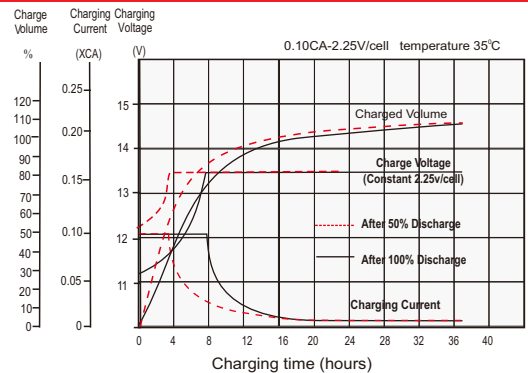
Unit: mm

Length	151±2mm (5.95 inches)
Width	65±2mm (2.56 inches)
Height	94±2mm (3.68 inches)
Total Height	100±2mm (3.90 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

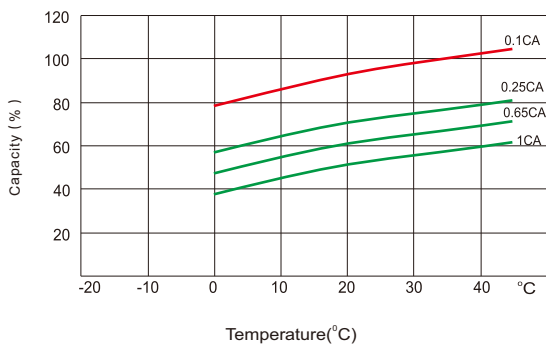
Discharge Characteristics Curve



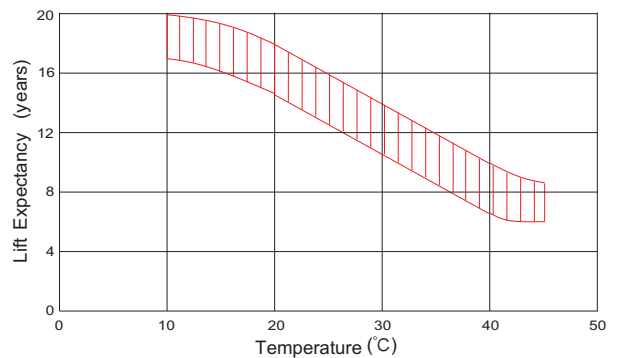
Float Charging Characteristic



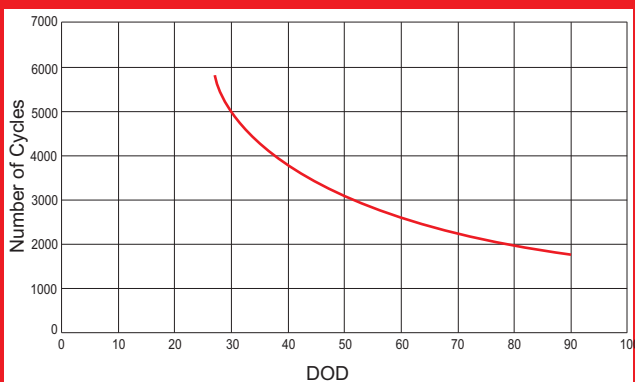
Temperature Effects On Capacity



Effect Of Temperature On Long Term Life



Cycle Life in Relation to Depth of Discharge



Storage Characteristics

