

# NS6-4.5

## 6V 4.5Ah



### Introduction

**E-GUARD NS series** is designed for standby use with a 5-year design life in float service. This series of battery features high consistency, excellent performance and reliable standby service life. It is widely applied in UPS/EPS, medical equipment, emergency light and security system.

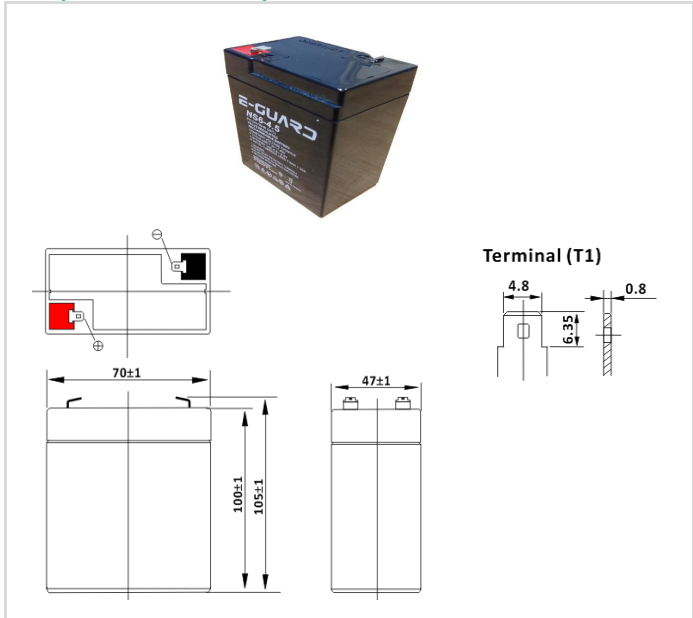
### Battery Features

- 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

### Electrical Specification

Design floating Life @ 25°C (77°F)	5 years
Nominal Capacity @ 25°C /77°F	
20 hour rate 0.225A to 1.75Vpc	4.5 Ah
10 hour rate 0.42A to 1.75Vpc	4.2 Ah
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	20 mΩ
Max. Discharge Current @ 25°C /77°F	42 A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	7. 25~ 7.45V
Max. Current	0.7 A
Standby Use	6.8 - 6.9V
Operating Temperature Range	-30 ~ 50°C
<i>Notes: battery voltage must be adjusted according to temperature. Please refer to our recommendation.</i>	
Self-Discharge	
3% of capacity declined per month @ 25°C (77°F).	

### Battery Picture & Terminal Layout



### Dimension & Weight

Length	Dimension (± 2mm)			Total Height	Weight (± 2%)
	Width	Height	Total Height		
70 mm	47 mm	100 mm	105 mm	0.74 kg	
2.8 inch	1.9 inch	3.9 inch	4.1 inch	1.6 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	10.23	7.81	6.67	5.54	4.70	4.07	3.74	3.41	3.13	2.90	2.72	1.41	1.09	0.94	0.81	0.44	0.231
1.65	9.80	7.48	6.40	5.32	4.53	3.92	3.61	3.30	3.04	2.82	2.66	1.37	1.06	0.91	0.79	0.44	0.231
1.70	9.36	7.15	6.12	5.09	4.36	3.77	3.48	3.18	2.94	2.75	2.61	1.34	1.04	0.90	0.78	0.43	0.225
1.75	8.93	6.82	5.85	4.88	4.20	3.63	3.35	3.08	2.85	2.67	2.55	1.31	1.01	0.87	0.77	0.42	0.225
1.80	8.50	6.49	5.58	4.67	4.06	3.50	3.23	2.97	2.76	2.60	2.49	1.27	0.97	0.85	0.76	0.42	0.218

### 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	19.59	14.96	12.72	10.48	8.75	7.70	7.15	6.60	6.25	5.80	5.45	2.88	2.14	1.88	1.47	0.90	0.49
1.65	18.80	14.35	12.21	10.06	8.42	7.39	6.85	6.32	5.99	5.56	5.22	2.75	2.08	1.84	1.45	0.89	0.48
1.70	18.01	13.75	11.71	9.68	8.14	7.12	6.60	6.07	5.75	5.32	5.00	2.62	2.03	1.79	1.42	0.88	0.47
1.75	17.36	13.25	11.27	9.29	7.81	6.81	6.30	5.79	5.49	5.08	4.77	2.48	1.96	1.75	1.40	0.87	0.47
1.80	16.57	12.65	10.78	8.91	7.54	6.55	6.06	5.57	5.29	4.90	4.61	2.39	1.89	1.70	1.36	0.86	0.44

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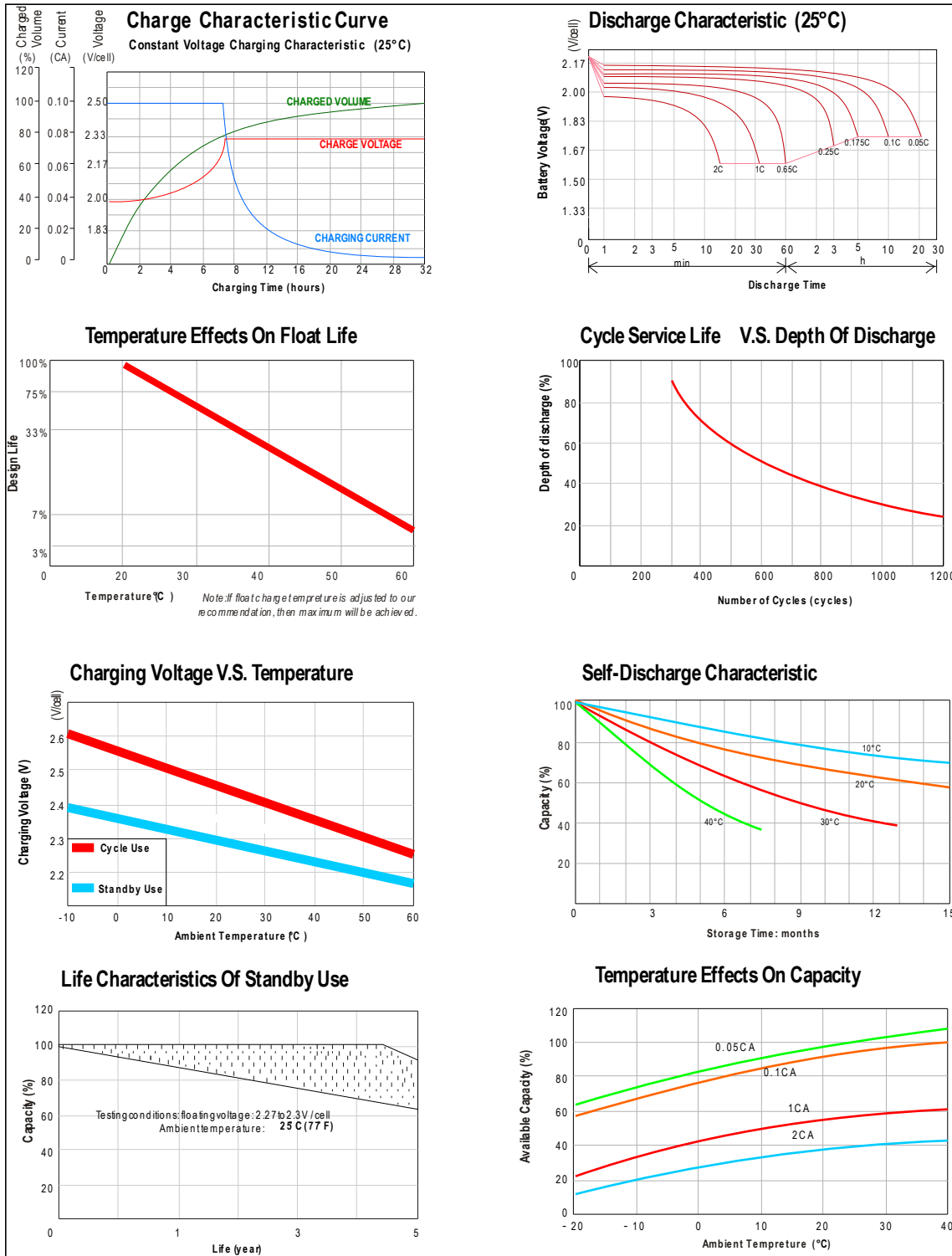
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Alternate energy products