

### Introduction

**Flying NG 12V series** is designed for solar and other renewable energy system applications with a 10 years design life. The series battery is a genuine Gelled electrolyte valve regulated product. Featured of its performance is an enhanced cycle life in comparison to traditional AGM products.

### Battery Features

- Completed maintenance free
- Electrolyte will not stratify, no equalization charge required.
- Enhanced cycle life
- Genuine Gelled thixotropic electrolyte (Silicon Gel)
- Increase durability and deep cycle ability for heavy demand applications
- Low self-discharge
- Fully tank formed plates
- Low impurity electrolyte
- Spill proof / leak proof
- Multi-position usage
- ABS case and cover VO upon request

### Electrical Specification

Design floating Life @ 25°C (77°F) .....	10 years
Nominal Capacity @ 25°C /77°F	
20 hour rate 5.25A to 1.75Vpc .....	105Ah
10 hour rate 10.25A to 1.75Vp .....	102.5Ah
Internal Resistance	
(Fully charged battery @ 25°C /77°F).....	6 mΩ
Max. Discharge Current @ 25°C /77° .....	1000 A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use .....	14.7 ~ 14.9V
Max. Current .....	25A
Standby Use .....	13.6 - 13.8V
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		
327 mm	172 mm	216 mm	221 mm	30.5 kg	
12.9 inch	6.8 inch	8.5 inch	8.7 inch	67.1 lbs	

### Typical Applications

- Solar Energy System
- Wind Energy System
- Power Utility
- UPS/EPS
- BTS system
- Data Center

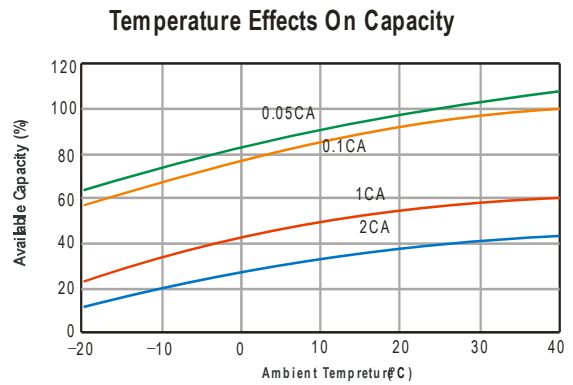
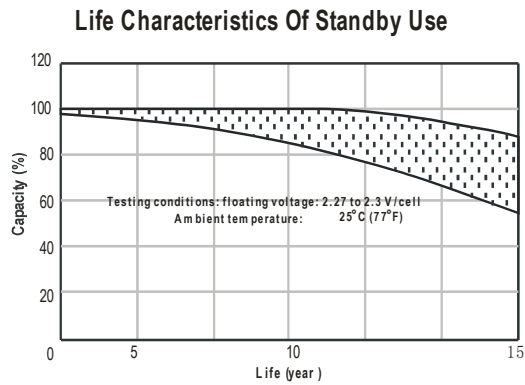
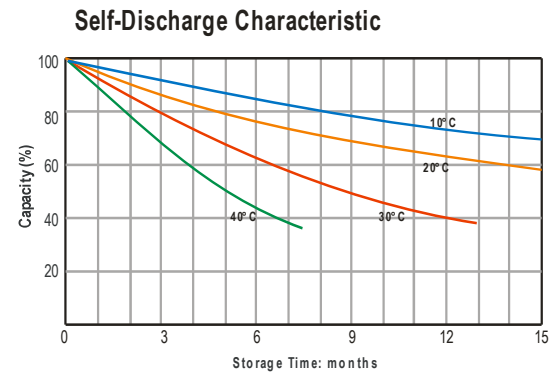
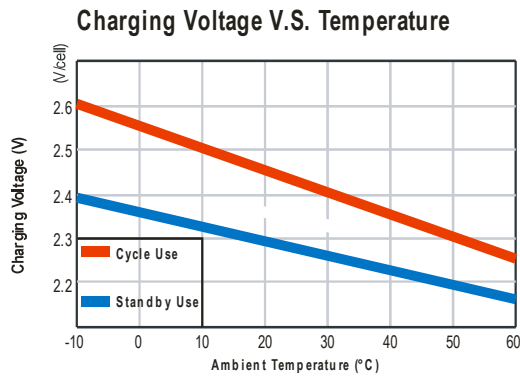
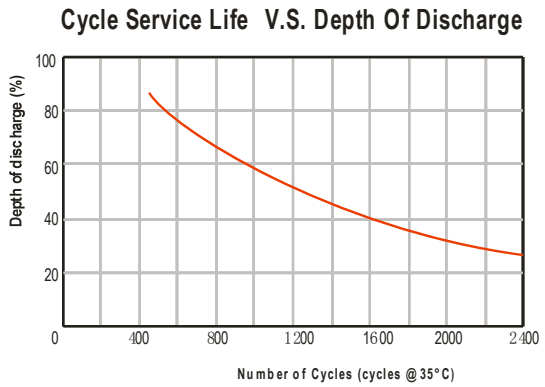
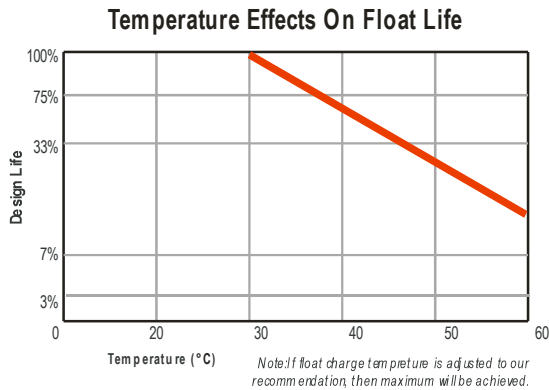
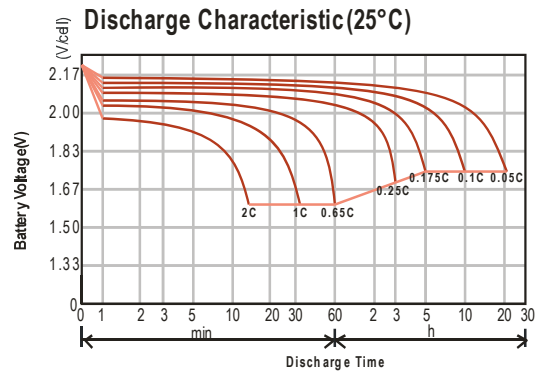
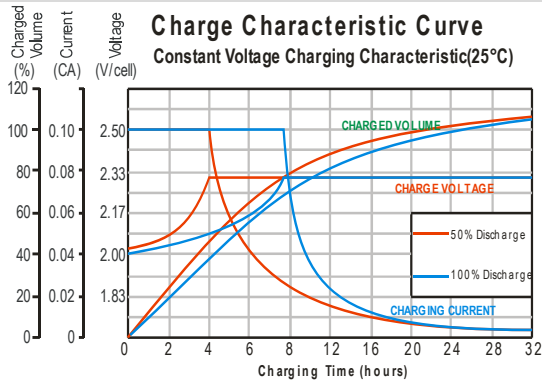
### Constant Current Discharge (Amperes @ 25°C /77°F)

V/cell	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	1hr	2hr	3hr	4hr	5hr	10hr	20hr
1.60	245.4	187.3	162.5	137.8	116.8	105.9	98.7	91.6	84.9	78.5	72.6	40.48	29.38	24.51	20.24	10.71	5.41
1.65	233.0	177.9	154.5	131.1	111.6	101.1	94.4	87.7	81.6	75.6	70.2	39.10	28.26	23.54	19.40	10.45	5.30
1.70	223.4	170.5	148.4	126.3	108.0	97.7	91.3	84.9	79.0	73.3	68.2	37.92	27.61	22.98	18.95	10.35	5.30
1.75	213.1	162.7	141.8	120.9	103.9	94.0	88.1	82.1	76.6	71.3	66.7	37.03	27.00	22.48	18.54	10.25	5.25
1.80	202.1	154.3	134.8	115.3	99.7	90.3	84.6	79.0	73.9	69.0	64.6	35.84	26.35	21.92	18.09	9.98	5.21

### 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	426.2	325.3	286.3	247.3	214.3	194.4	180.6	166.8	153.7	141.9	130.8	73.36	54.01	45.41	37.99	20.95	11.05
1.65	411.0	313.8	276.7	239.6	208.6	189.3	176.0	162.7	150.1	138.8	128.2	71.88	53.51	44.90	37.48	20.75	11.05
1.70	395.2	301.7	266.4	231.2	201.9	183.3	170.7	158.1	146.1	135.6	125.7	70.40	52.50	44.12	36.93	20.35	10.91
1.75	378.0	288.6	255.3	222.0	194.7	176.7	164.8	152.9	141.7	131.9	122.6	68.62	50.99	43.04	36.27	20.20	10.71
1.80	359.5	274.4	243.3	212.1	187.0	169.7	158.5	147.3	136.7	127.6	119.0	66.55	49.63	41.96	35.47	19.99	10.61

**Graphs**



**Africa's leading manufacturer and distributor of electronic security products.**