

# NG12-80

12V80Ah / 20hr rate



## Introduction

**Genergy 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 4.01A to 1.75Vpc	80.8 Ah
10 hour rate 7.83A to 1.75Vpc	78.3 Ah
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	7 mΩ
Max. Discharge Current @ 25°C /77°F	800 A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	14.7 ~ 14.9V
Max. Current	20 A
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			
260 mm	169 mm	210 mm	214 mm	26.8 kg	
10.2 inch	6.7 inch	8.3 inch	8.4 inch	59.1 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	142.4	116.7	105.8	93.3	83.99	75.47	70.97	66.38	62.45	58.89	57.25	31.17	22.08	18.36	15.01	8.02	4.05
1.65	135.2	110.8	101.0	89.7	81.78	73.48	69.21	64.86	61.17	57.87	56.47	30.57	21.66	17.97	14.66	7.98	4.05
1.70	129.6	106.3	97.0	86.4	79.20	71.04	66.95	62.78	59.26	56.15	54.92	29.55	21.16	17.55	14.32	7.90	4.05
1.75	123.7	101.4	92.7	82.7	76.26	68.36	64.56	60.69	57.48	54.69	53.75	28.73	20.70	17.16	14.01	7.83	4.01
1.80	117.3	96.1	88.1	78.9	73.31	65.61	62.05	58.41	55.44	52.91	52.19	27.70	20.20	16.74	13.66	7.62	3.97

## 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	247.3	202.7	187.1	169.2	154.3	141.3	132.4	123.3	114.9	107.6	103.3	55.88	40.79	34.68	28.56	16.00	8.44
1.65	238.6	195.5	180.9	164.0	150.3	137.6	129.0	120.3	112.3	105.3	101.3	54.71	40.41	34.29	28.17	15.85	8.44
1.70	229.4	188.0	174.2	158.2	145.5	133.2	125.1	116.8	109.3	102.9	99.4	53.36	39.64	33.69	27.75	15.54	8.33
1.75	219.4	179.8	166.9	151.9	140.3	128.5	120.8	113.0	106.0	100.1	97.1	51.61	38.49	32.87	27.25	15.42	8.18
1.80	208.6	171.0	159.0	145.1	134.8	123.4	116.2	108.9	102.3	96.9	94.3	49.73	37.45	32.04	26.63	15.27	8.10

Subject to revision without notice. Please contact our sales representatives for latest version.

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Graphs

