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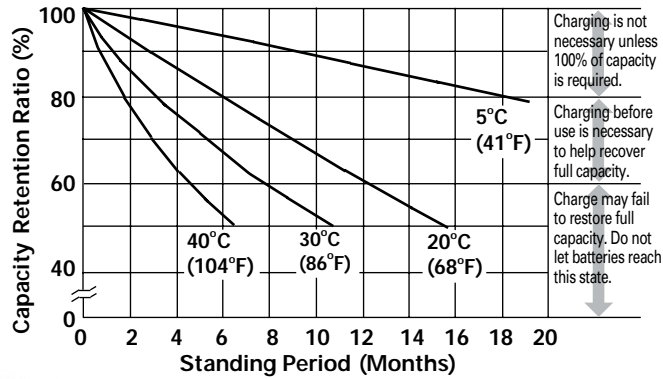
## RANGE SUMMARY

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## Shelf life and Storage



## Performance Specifications

### NP-GEL30-12

Nominal Voltage	12 volts (6 cells in series)
Nominal Capacity	
20 hour rate (1.3A to 10.50 volts)	26.0 A.H.
10 hour rate (2.4A to 10.50 volts)	24.0 A.H.
5 hour rate (4.7A to 10.20 volts)	23.5 A.H.
1 hour rate (20.0A to 09.00 volts)	20.0 A.H.
Float Charge Voltage	13.5 Volts @ 77°F (25°C)
Cyclic Recharge Voltage	14.1-14.4 Volts @ 77°F (25°C)
Internal Resistance (Fully Charged Battery)	9.4 milliohms (approx)
Maximum Discharge Current	150A
Operating Temperatures Range	
Charge	-4°F (-20°C) to 122°F (50°C)
Discharge	-4°F (-20°C) to 140°F (60°C)

### NP-GEL70-12

Nominal Voltage	12 volts (6 cells in series)
Nominal Capacity	
20 hour rate (3.55A to 10.50 volts)	71.0 A.H.
10 hour rate (6.80A to 10.50 volts)	68.0 A.H.
5 hour rate (12.70A to 10.20 volts)	63.5 A.H.
1 hour rate (53.00A to 09.00 volts)	53.0 A.H.
Float Charge Voltage	13.5 Volts @ 77°F (25°C)
Cyclic Recharge Voltage	14.1-14.4 Volts @ 77°F (25°C)
Internal Resistance (Fully Charged Battery)	10 milliohms (approx)
Maximum Discharge Current	150A
Operating Temperatures Range	
Charge	-4°F (-20°C) to 122°F (50°C)
Discharge	-4°F (-20°C) to 140°F (60°C)

### NP-GEL50-12

Nominal Voltage	12 volts (6 cells in series)
Nominal Capacity	
20 hour rate (2.50A to 10.50 volts)	50.9 A.H.
10 hour rate (4.60A to 10.50 volts)	46.0 A.H.
5 hour rate (8.80A to 10.20 volts)	44.0 A.H.
1 hour rate (37.00A to 09.00 volts)	37.0 A.H.
Float Charge Voltage	13.5 Volts @ 77°F (25°C)
Cyclic Recharge Voltage	14.1-14.4 Volts @ 77°F (25°C)
Internal Resistance (Fully Charged Battery)	10 milliohms (approx)
Maximum Discharge Current	150A
Operating Temperatures Range	
Charge	-4°F (-20°C) to 122°F (50°C)
Discharge	-4°F (-20°C) to 140°F (60°C)

### NP-GEL90-12

Nominal Voltage	12 volts (6 cells in series)
Nominal Capacity	
20 hour rate (4.35A to 10.50 volts)	87.0 A.H.
10 hour rate (8.20A to 10.50 volts)	82.0 A.H.
5 hour rate (15.40A to 10.20 volts)	77.0 A.H.
1 hour rate (63.00A to 09.00 volts)	63.0 A.H.
Float Charge Voltage	13.5 Volts @ 77°F (25°C)
Cyclic Recharge Voltage	14.1-14.4 Volts @ 77°F (25°C)
Internal Resistance (Fully Charged Battery)	10 milliohms (approx)
Maximum Discharge Current	150A
Operating Temperatures Range	
Charge	-4°F (-20°C) to 122°F (50°C)
Discharge	-4°F (-20°C) to 140°F (60°C)

## NP-GEL30-12 Discharge Current (amps 77°F (25°C))

Volts	Minutes					Hours						
	15	20	30	45	60	2	3	4	5	8	10	20
1.85	40.6	35.0	27.6	21.1	17.1	9.9	7.0	5.5	4.5	2.9	2.4	1.3
1.80	44.4	37.9	29.4	22.2	17.9	10.2	7.2	5.6	4.6	3.0	2.4	1.3
1.75	48.1	40.6	31.1	23.2	18.6	10.5	7.4	5.7	4.6	3.0	2.5	1.3
1.70	51.3	42.9	32.5	24.0	19.1	10.7	7.5	5.8	4.7	3.1	2.5	1.3
1.67	53.0	44.0	33.2	24.4	19.4	10.8	7.5	5.8	4.7	3.1	2.5	1.3
1.65	54.1	44.7	33.5	24.6	19.5	10.8	7.5	5.8	4.7	3.1	2.5	1.3
1.63	55.0	45.4	33.9	24.8	19.6	10.9	7.6	5.8	4.8	3.1	2.5	1.3
1.60	56.3	46.1	34.2	24.9	19.7	10.9	7.6	5.9	4.8	3.1	2.5	1.3
1.55	57.7	47.0	34.6	25.0	19.8	10.9	7.6	5.9	4.8	3.1	2.5	1.4
1.50	58.5	47.2	34.9	25.3	20.0	11.0	7.7	5.9	4.8	3.1	2.5	1.4

## NP-GEL50-12 Discharge Current (amps 77°F (25°C))

Volts	Minutes					Hours						
	15	20	30	45	60	2	3	4	5	8	10	20
1.85	69.2	60.1	47.8	36.9	30.2	17.8	12.8	10.0	8.3	5.5	4.5	2.4
1.80	77.1	66.2	52.0	39.6	32.2	18.6	13.2	10.3	8.5	5.6	4.6	2.5
1.75	84.4	71.8	55.6	41.9	33.8	19.3	13.6	10.6	8.7	5.7	4.7	2.5
1.70	90.9	76.7	58.7	43.7	35.0	19.7	13.9	10.8	8.8	5.8	4.7	2.6
1.67	94.3	79.1	60.2	44.6	35.6	19.9	14.0	10.8	8.9	5.8	4.8	2.6
1.65	96.3	80.5	61.0	45.1	35.9	20.0	14.0	10.9	8.9	5.8	4.8	2.6
1.63	98.1	81.7	61.7	45.4	36.1	20.1	14.1	10.9	8.9	5.8	4.8	2.6
1.60	100.3	83.2	62.5	45.8	36.3	20.1	14.1	10.9	8.9	5.9	4.8	2.7
1.55	102.7	84.6	63.0	45.9	36.7	20.3	14.2	11.0	9.0	5.9	4.8	2.7
1.50	103.5	84.7	63.7	46.4	37.1	20.6	14.4	11.1	9.1	6.0	4.9	2.7

## NP-GEL70-12 Discharge Current (amps 77°F (25°C))

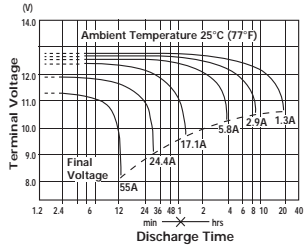
Volts	Minutes					Hours						
	15	20	30	45	60	2	3	4	5	8	10	20
1.85	90.1	78.5	63.6	50.4	42.1	26.2	19.2	15.2	12.6	8.3	6.7	3.3
1.80	104.6	89.7	70.8	54.7	45.0	27.0	19.5	15.3	12.7	8.3	6.7	3.4
1.75	118.2	99.9	77.4	58.6	47.5	27.7	19.8	15.4	12.7	8.3	6.8	3.6
1.70	129.8	108.7	82.9	61.8	49.6	28.3	20.0	15.5	12.7	8.4	6.8	3.7
1.67	135.6	113.0	85.5	63.4	50.6	28.5	20.1	15.6	12.8	8.4	6.8	3.7
1.65	138.8	115.3	87.0	64.2	51.2	28.7	20.2	15.6	12.8	8.4	6.9	3.7
1.63	141.4	117.3	88.2	64.9	51.6	28.8	20.2	15.6	12.8	8.4	6.9	3.7
1.60	144.3	119.5	89.6	65.7	52.1	29.0	20.3	15.7	12.8	8.4	6.9	3.7
1.55	146.0	120.7	90.4	66.2	52.5	29.1	20.4	15.7	12.9	8.4	6.9	3.8
1.50	147.4	121.9	91.3	66.9	53.0	29.4	20.4	15.8	12.9	8.4	6.9	3.8

## NP-GEL90-12 Discharge Current (amps 77°F (25°C))

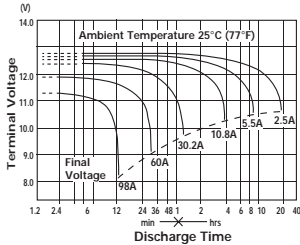
Volts	Minutes					Hours						
	15	20	30	45	60	2	3	4	5	8	10	20
1.85	116.0	101.6	81.8	63.8	52.6	31.4	22.6	17.7	14.6	9.6	7.8	4.1
1.80	129.5	111.7	88.4	67.9	55.4	32.5	23.2	18.2	14.9	9.8	8.0	4.3
1.75	142.0	121.0	94.2	71.4	57.9	33.5	23.8	18.5	15.2	10.0	8.2	4.3
1.70	150.0	129.1	99.2	74.4	59.8	34.2	24.2	18.8	15.4	10.1	8.3	4.4
1.67	150.0	133.2	101.6	75.8	60.8	34.5	24.3	18.9	15.5	10.2	8.3	4.5
1.65	150.0	135.6	103.1	76.6	61.3	34.7	24.4	18.9	15.5	10.2	8.3	4.5
1.63	150.0	137.7	104.3	77.2	61.7	34.8	24.5	19.0	15.5	10.2	8.3	4.5
1.60	150.0	140.3	105.7	78.0	62.1	34.9	24.5	19.0	15.5	10.2	8.3	4.5
1.55	150.0	142.9	107.1	78.6	62.4	35.2	24.7	19.2	15.7	10.3	8.4	4.5
1.50	150.0	143.4	107.1	79.4	63.0	35.6	25.0	19.4	15.9	10.4	8.5	4.5

## Discharge Characteristics

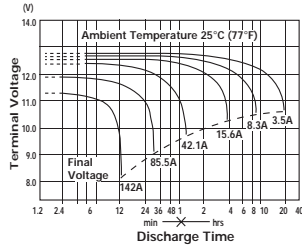
NP-GEL30-12



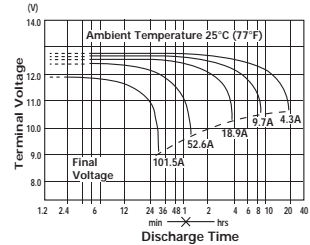
NP-GEL50-12



NP-GEL70-12



NP-GEL90-12



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