



RANGE SUMMARY

Sealed Rechargeable, Valve Regulated Lead Acid Batteries



The **DataSafe** NPX valve regulated lead-acid batteries are designed for high rate discharge applications. These batteries are used primarily where high power is required for a time period. With 50% more wattage available and a 30% reduction in size over conventional batteries, the **DataSafe** NPX series offers a superior value, especially in UPS applications.

Features

- Sealed construction - can be operated in any position without leakage.
- Complies with non-spillable battery regulation.
- Life expectancy at 25°C (77°F):

Standby use:	3-5 years
Cycle use (approx.):	
100% depth of discharge	250 cycles
50% depth of discharge	550 cycles
30% depth of discharge	1200 cycles
- Charge retention (shelf life) at 20°C (68°F)

1 month	97%
3 months	91%
6 months	85%
- Operating temperature range:

Charge	-15°C to 50°C (5°F to 122°F)
Discharge	-20°C to 60°C (-4°F to 140°F)

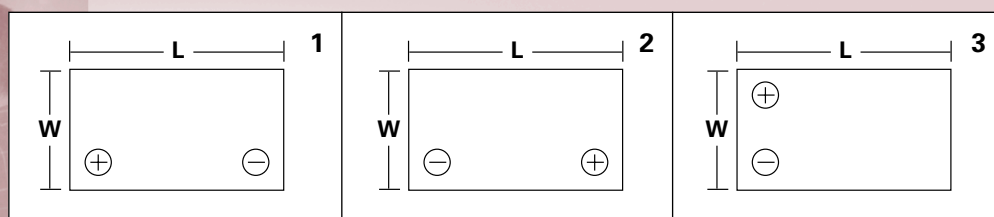
GENERAL SPECIFICATIONS

Type	FR Type*	Volts	W/Cell to 1.67 End Voltage (15 Min Rate)	Length		Width		Overall Height Incl. Terminals		Weight		Layout	Terminals
				mm	in	mm	in	mm	in	kgs	lbs		
NPX-50	NPX-50FR	6	53W/Cell	151.0	5.95	50.0	1.97	100.0	3.94	2.15	4.74	2	A
NPX-25	NPX-25FR	12	23W/Cell	90.0	3.54	70.0	2.76	107.0	4.21	1.95	4.30	1	A
NPX-35	NPX-35FR		36W/Cell	151.0	5.95	65.0	2.56	100.0	3.94	2.87	6.33	3	A
NPX-80	NPX-80FR		80W/Cell	181.0	7.13	76.2	3.00	167.0	6.58	6.07	13.38	2	B
NPX-100	NPX-100FR		100W/Cell	165.5	6.62	125.0	4.92	175.0	6.89	8.00	17.64	2	B
NPX-150	NPX-150FR		150W/Cell	197.0	7.76	165.0	6.50	170.0	6.99	15.03	33.14	2	B

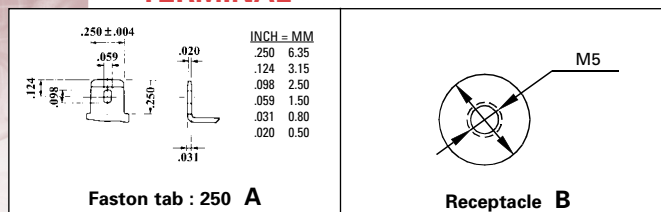
FOOTNOTES:

* FR: UL94-VO, Flame Retardant Container and Lid (Oxygen index: 30)
UL listing pending - File No. MH16464
Dimension tolerance $\pm 1\text{mm}$ (0.04 in)

• LAYOUT



• TERMINAL

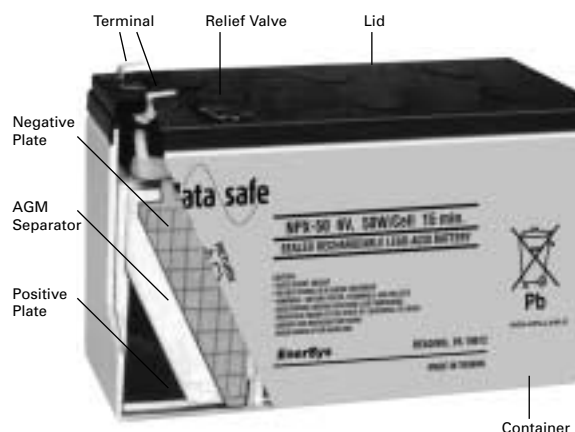


DataSafe NPX 6 Volt

NPX-50

Nominal Voltage	6
Nominal Wattage/Cell	
15 min. discharge rate to 1.67 Vpc	53
10 min. discharge rate to 1.67 Vpc	60
5 min. discharge rate to 1.67 Vpc	94
Nominal Capacity	
10 hr. to 5.25V	11.7Ah @ 1.17A rate
5 hr. to 5.10V	10.4Ah @ 2.08A rate
1 hr. to 4.80V	7.8Ah @ 7.8A rate
Energy Density (10 hr. rate):	
WH/cubic inch	1.6
WH/cubic litre	98.2
Specific Energy	
WH/pound	14.8
WH/kg	32.7
Internal Resistance of Charged Battery- milliohms (approx)	10
Maximum Discharge Current with Standard Terminals - amperes	130
Maximum Short-Duration Discharge Current amperes	390
Terminal	
Standard Terminal	Quick Disconnect .250"
Housing Material	
Standard Housing Material	ABS Resin
Optional Housing Material	V0 Flame Retardant ABS
Charging Methods (at 20°C)	
Cycle Use - Maximum charging current	2.9A
Cycle Use - Charging voltage	7.2 - 7.35V
Standby Use - Float charging voltage	6.75 - 6.90V

Battery Construction



DataSafe NPX 12 Volt

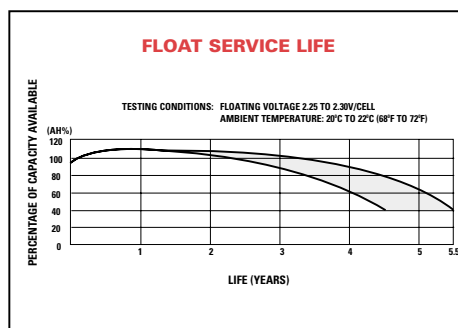
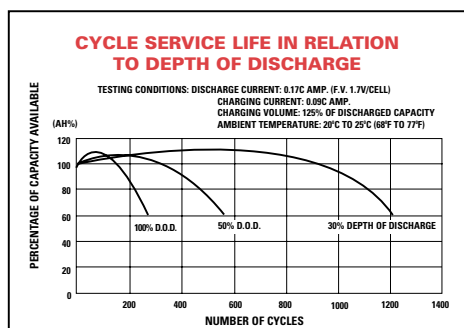
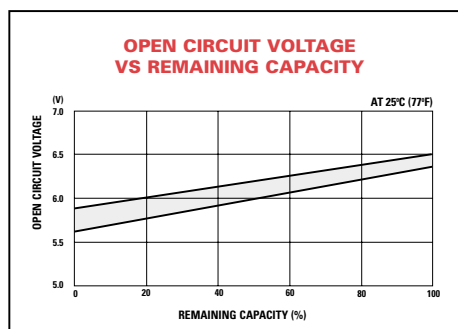
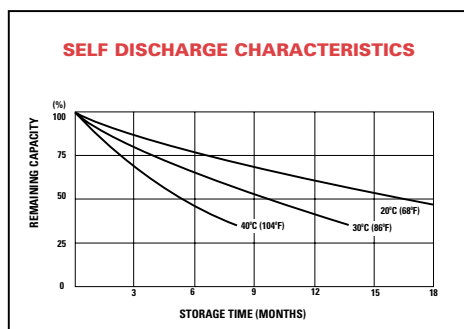
	NPX-25	NPX-35	NPX-80	NPX-100	NPX-150
Nominal Voltage	12	12	12	12	12
Nominal Wattage/Cell					
15 min. discharge rate to 1.67 Vpc	23	36	80	100	150
10 min. discharge rate to 1.67 Vpc	30	48	106	133	199
5 min. discharge rate to 1.67 Vpc	47	74	164	205	307
Nominal Capacity					
10 hr. to 10.5V	4.5Ah @ 0.45A rate	7.2Ah @ 0.72A rate	18Ah @ 1.8A rate	25.2Ah @ 2.52A rate	36.0Ah @ 3.6A rate
5 hr. to 10.2V	4.0Ah @ 0.8A rate	6.4Ah @ 1.28A rate	16.0Ah @ 3.2A rate	22.4Ah @ 4.48A rate	32.0Ah @ 6.4A rate
1 hr. to 9.6V	3.0Ah @ 3.0A rate	4.8Ah @ 4.8A rate	12.0Ah @ 12.0A rate	16.8Ah @ 16.8A rate	24.0Ah @ 24.0A rate
Energy Density (10 hr. rate):					
WH/cubic inch	1.4	1.5	1.5	1.3	1.2
WH/cubic litre	85.2	93.5	94.2	79.4	75.2
Specific Energy					
WH/pound	12.6	13.6	16.1	13.9	12.8
WH/kg	27.7	30.1	35.6	30.5	28.2
Internal Resistance of Charged Battery- milliohms (approx)	35	22	13	9	8
Maximum Discharge Current with Standard Terminals - amperes	50	80	200	280	320
Maximum Short-Duration Discharge Current amperes	150	120	600	840	800
Terminal					
Standard Terminal	Quick Disconnect .250"	Quick Disconnect .250"	Receptacle	Receptacle	Receptacle
Housing Material					
Standard Housing Material	ABS Resin	ABS Resin	ABS Resin	V0 Flame Retardant ABS	V0 Flame Retardant ABS
Optional Housing Material	V0 Flame Retardant ABS	V0 Flame Retardant ABS	V0 Flame Retardant ABS	ABS Resin	ABS Resin
Charging Methods (at 20°C)					
Cycle Use - Maximum charging current	1.125A	1.8A	4.5A	6.3A	9.0A
Cycle Use - Charging voltage	14.4 - 14.7V	14.4 - 14.7V	14.4 - 14.7V	14.4 - 14.7V	14.4 - 14.7V
Standby Use - Float charging voltage	13.50 - 13.80V	13.50 - 13.80V	13.50 - 13.80V	13.50 - 13.80V	13.50 - 13.80V

Constant Power Discharge (Watts per cell) at 25°C (77°F)

Type	Volts/Cell	Minutes							Hours
		5	10	15	20	30	40	50	1
6 VOLT SERIES	NPX-50	1.75	99.6	65.8	50.2	40.8	30.1	23.6	17.3
		1.70	105.5	68.9	52.1	42.3	31.0	24.2	17.7
		1.67	108.5	70.3	53.0	42.9	31.4	24.5	17.8
		1.60	113.8	72.3	54.1	43.6	31.8	24.8	18.0
		1.50	116.6	73.3	55.2	44.5	32.5	25.3	18.5

12 VOLT SERIES

NPX-25	1.75	43.2	28.6	21.8	17.7	13.1	10.2	8.8	7.5
	1.70	45.8	29.9	22.6	18.3	13.5	10.5	9.0	7.7
	1.67	47.1	30.5	23.0	18.6	13.6	10.6	9.1	7.7
	1.60	49.4	31.4	23.5	18.9	13.8	10.8	9.2	7.8
	1.50	50.6	31.8	24.0	19.3	14.1	11.0	9.4	8.0
NPX-35	1.75	67.7	44.7	34.1	27.7	20.5	16.0	13.7	11.8
	1.70	71.7	46.8	35.4	28.7	21.1	16.5	14.1	12.0
	1.67	73.7	47.7	36.0	29.1	21.3	16.7	14.2	12.1
	1.60	77.3	49.1	36.8	29.6	21.6	16.9	14.3	12.2
	1.50	79.2	49.8	37.5	30.2	22.1	17.2	14.7	12.6
NPX-80	1.75	150.3	99.4	75.7	61.7	45.5	35.6	30.5	26.1
	1.70	159.2	103.9	78.7	63.8	46.8	36.6	31.2	26.7
	1.67	163.8	106.1	80.0	64.8	47.4	37.0	31.5	26.9
	1.60	171.8	109.1	81.7	65.9	48.0	37.5	31.9	27.2
	1.50	176.0	110.7	83.3	67.2	49.0	38.2	32.6	27.9
NPX-100	1.75	187.9	124.2	94.6	77.1	56.9	44.6	38.2	32.6
	1.70	199.0	129.9	98.3	79.8	58.5	45.7	39.0	33.3
	1.67	204.7	132.6	100.0	80.9	59.3	46.3	39.4	33.6
	1.60	214.8	136.4	102.1	82.3	60.0	46.8	39.9	34.0
	1.50	220.0	138.3	104.2	84.0	61.2	47.8	40.8	34.9
NPX-150	1.75	281.9	186.4	141.9	115.6	85.3	66.8	57.2	49.0
	1.70	298.6	194.9	147.5	119.7	87.8	68.6	58.5	50.0
	1.67	307.1	198.9	150.0	121.4	88.9	69.4	59.1	50.5
	1.60	322.1	204.6	153.2	123.5	90.0	70.2	59.8	51.0
	1.50	330.0	207.5	156.2	126.0	91.9	71.6	61.2	52.4



- Avoid terminal short circuit • Do not charge in a sealed container
- When the battery will be used by the current in excess of 3C, consult with EnerSys prior to use



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