

# RANGE SUMMARY





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DataSafe® NPX valve regulated lead-acid batteries are designed for high rate discharge applications. These batteries are used primarily where high wattage is required for a short duration. With 50% more wattage available and a 30% reduction in size over conventional batteries, DataSafe NPX batteries offer a superior value, especially in UPS applications.

## **Features and Benefits**

- UL recognized
- Sealed construction can be operated in any position without leakage
- Complies with non-spillable battery regulation, per IATA special provision A67 and 49CFR
- Life expectancy at 25°C (77°F):

Standby use: 3-5 years

Cycle use (approx.):

100% depth of discharge 250 cycles50% depth of discharge 550 cycles

30% depth of discharge 1200 cycles

Charge retention (shelf life) at 68°F (20°C)

1 month 97% 3 months 91% 6 months 85%

• Operating temperature range:

Charge 5°F to 122°F

(-15°C to 50°C)

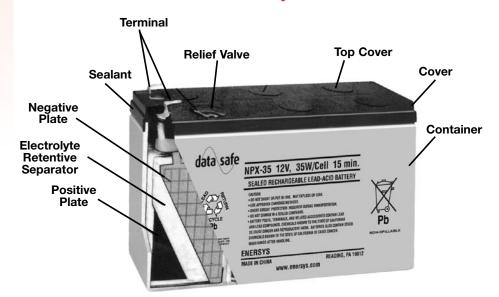
Discharge -4°F to 140°F

(-20°C to 60°C)

• Standard housing material:

ABS resin with optional V-0 Flame Retardant ABS

# DataSafe® NPX Battery Construction



# DATASAFE® NPX BATTERIES - 6 AND 12 VOLT

-	NPX-35-6	NPX-50-6	NPX-25	NPX-35	NPX-80	NPX-100	NPX-135	NPX-150
Energy Density (10hr rate)								
WH/cubic inch	1.70	1.58	1.36	1.50	1.54	1.36	1.36	1.27
WH/cubic liter	104.1	96.7	28.7	91.5	94.0	83.2	83.1	77.6
Specific Energy								
WH/pound	17.11	14.8	13.0	14.3	15.4	14.1	14.0	13.7
WH/kg	37.8	32.7	28.7	31.4	34.0	31.2	30.8	30.2
Maximum Discharge Current with Standard Terminals - amperes	40	40	40	40	150	360	360	360
Maximum Short-Duration Discharge Current - amperes	210	300	150	210	450	780	840	1200
Charging Methods			1					
Cycle Use - Maximum charging current	2.0A	3.0A	1.25A	2.215A	5.0A	6.5A	7.5A	10.0A
Cycle Use - Charging voltage	7.2-7.5V	7.2-7.5V	14.4-15.0V	14.4-15.0V	14.4-15.0V	14.4-15.0V	14.4-15.0V	14.4-15.0V
Standby Use - Float charging voltage	6.75-6.90V	6.75-6.90V	13.50-13.80V	13.50-13.80V	13.50-13.80V	13.50-13.80V	13.50-13.80V	13.50-13.80V



#### **GENERAL SPECIFICATIONS**

Type FR Type* Volts		Volts W/Cell to 1.67 End Voltage (15 Min. Rate)	Nominal Ah 20hr to 1.75VPC	Length		Width		Terminals		Weight					
	Volts			mm.	(in.)	mm.	(in.)	mm.	(in.)	kgs.	(lbs.)	Internal Resistance (m )	Layout	Terminals	
NPX-35-6	NPX-35-6FR	6	35	8	151	5.95	33	1.30	100	3.94	1.43	3.15	12	1	A/B
NPX-50-6	NPX-50-6FR	6	53	13	151	5.95	50	1.97	100	3.94	2.09	4.60	6	1	A/B
NPX-25	NPX-25FR		23	5	90	3.54	70	2.75	107	4.21	1.95	4.30	16.5	1	A/B
NPX-35	NPX-35FR		35	8	151	5.95	65	2.56	100	3.94	2.75	6.06	15	3	A/B
NPX-80	NPX-80FR	12	80	20	181	7.13	76	2.39	167	6.57	6.35	14.00	8.5	2	C/E
NPX-100	NPX-100FR	12	95	28	166	6.54	125	4.92	175	6.89	9.70	21.38	7.5	2	C/E
NPX-135	NPX-135FR		135	33	197	7.76	131	5.16	158†	6.22	11.94	26.32	6.5	1	D/F
NPX-150	NPX-150FR		150	40	197	7.76	165	6.50	172	6.77	14.29	31.50	5	2	D/F

#### FOOTNOTES:

All dimensions given are +/- 0.08 inches (2mm). All weights given are +/- 5%.

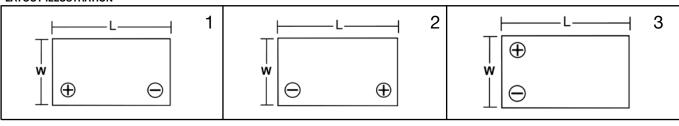
\*FR: UL90-V-0, Flame Retardant Case and Cover (Oxygen Index: 28) Recognized by UL File No. MH16464

 $^{\dagger}$ Height is top cover. Overall Height, including terminal is dependent on the terminal configuration.

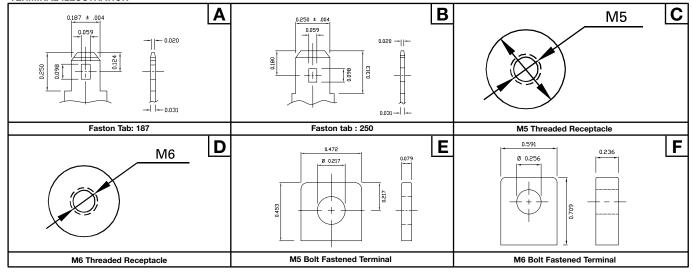
#### **Torque Specifications**

M5 bolt - 26.6 lbf.in (3Nm) +/- 5% M6 bolt - 44.31 lbf.in (5Nm) +/- 5% M5 receptacle - 35.4 lbf.in (4Nm) +/- 5% M6 receptacle - 65 lbf. in (6.8Nm) +/- 5%

#### LAYOUT ILLUSTRATION



# TERMINAL ILLUSTRATION



6 V	OL	Т	SE	RI	ES
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					MINUTES				HOURS
Type	Volts/Cell	5	10	15	20	30	40	50	1
	1.75	66.0	42.0	33.0	26.0	20.0	16.2	13.2	11.2
	1.70	67.0	43.0	34.0	27.0	20.8	17.0	13.7	11.5
NPX-35-6	1.67	68.0	44.0	35.0	28.0	21.5	17.6	14.0	11.8
	1.60	70.0	46.0	36.0	29.0	22.0	18.2	14.5	12.1
	1.50	71.0	47.0	38.0	31.0	23.0	18.8	15.0	12.4
	1.75	92.0	59.0	48.0	36.0	27.0	20.5	17.5	15.2
	1.70	93.0	60.0	49.0	37.0	28.0	21.2	18.0	15.4
NPX-50-6	1.67	94.0	60.0	50.0	38.0	29.0	21.7	18.5	15.6
	1.60	96.0	62.0	52.5	40.0	29.5	22.5	18.8	15.8
	1.50	97.0	63.0	53.5	41.0	29.8	23.0	19.0	16.0
2 VOLT SE	EDIEC								
VOLI SE	1.75	43.0	29.0	21.0	17.0	12.8	10.2	8.7	7.6
	1.70	45.0 45.0	30.0	22.0	17.6	13.2	10.4	8.9	7.6
NPX-25	1.67	47.0	31.0	23.0	18.1	13.6	10.4	9.1	7.8
NF X-25	1.60	48.0	32.0	24.0	18.8	13.8	10.8	9.3	7.9
	1.50	49.0	33.0	25.0	19.4	14.0	11.0	9.5	8.1
	1.75	66.0	42.0	33.0	26.0	20.0	16.2	13.2	11.2
NPX-35	1.70	67.0	43.0	34.0	27.0	20.8	17.0	13.7	11.5
	1.67	68.0	44.0	35.0	28.0	21.5	17.6	14.0	11.8
141 A-00	1.60	70.0	46.0	36.0	29.0	22.0	18.2	14.5	12.1
	1.50	71.0	47.0	38.0	31.0	23.0	18.8	15.0	12.4
	1.75	136.0	102.0	78.0	63.0	42.0	37.0	31.0	25.0
	1.70	138.0	103.0	79.0	64.0	42.5	38.0	31.8	25.4
NPX-80	1.67	140.0	104.0	80.0	65.0	43.3	38.0	32.3	25.8
111 X 00	1.60	145.0	106.0	81.0	66.0	44.0	39.0	32.8	26.0
	1.50	148.0	109.0	83.0	68.0	45.0	40.0	33.0	26.2
	1.75	170.0	115.0	90.0	74.0	54.0	44.0	35.5	31.5
	1.70	180.0	120.0	92.0	74.5	54.5	44.5	35.8	31.8
NPX-100	1.67	185.0	125.0	95.0	75.0	55.0	45.0	36.0	32.0
	1.60	190.0	127.0	95.5	75.5	55.5	45.3	36.3	32.3
	1.50	195.0	130.0	96.0	76.0	56.0	45.6	36.6	32.6
	1.75	244.0	161.0	123.0	100.0	74.0	59.2	50.0	44.5
	1.70	258.0	168.0	127.0	103.0	76.0	59.8	50.5	45.0
NPX-135	1.67	265.0	172.0	135.0	105.0	77.0	60.3	51.0	45.4
	1.60	278.0	177.0	135.0	107.0	78.0	61.0	51.5	45.9
	1.50	285.0	180.0	136.0	108.0	78.0	61.3	52.0	46.2
	1.75	250.0	180.0	140.0	115.0	86.0	71.0	61.0	54.0
	1.70	275.0	190.0	145.0	118.0	88.0	71.5	61.5	54.5
NPX-150	1.67	285.0	200.0	150.0	120.0	90.0	72.0	62.0	55.0
NPX-150		_00.0							
NPX-150	1.60	290.0	205.0	155.0	123.0	92.0	72.5	62.5	55.5



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