



NP4.5-6

Valve Regulated Lead-Acid (VRLA)
Absorbed Glass Mat (AGM)

Yuasa NP/NPX Series with **HT X Alloy™**, high temperature batteries optimized for performance and life

SPECIFICATIONS

Battery Model:	NP4.5-6
Nominal Voltage:	6
Capacity: 20-hr rate, 1.75vpc @ 25°C (77°F)	4.6 Ah
Case Material Options:	UL94HB UL94V-0 (FR)
Terminal Options:	Faston .187 in. (F1) Faston .250 in. (F2)
Terminal Torque (Terminals using Bolts):	
Dimensions:	
◦ Length (mm inches)	70.0 2.76
◦ Width (mm inches)	47.0 1.85
◦ Case Height (mm inches)	102.0 4.02
◦ Height over Terminal (mm inches)	105.0 4.13
Weight (kg lbs):	0.80 1.76
Max continuous discharge current, 5 seconds (A):	67.5
Short circuit current (A):	150
Max charge current (A):	1.125
Internal Resistance (mΩ):	~15.4

GENERAL

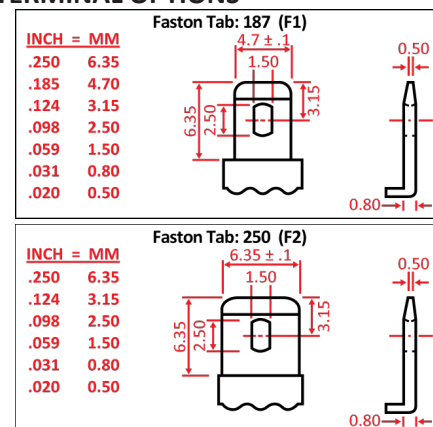
Design Life:	4-6 Years
Storage:	
◦ Capacity loss per month at 25°C (77°F)	~3%
Operating Temperature Range:	
◦ Storage (in fully charged condition)	-20°C to 60°C (-4°F to 140°F)
◦ Charge	-15°C to 50°C (5°F to 122°F)
◦ Discharge	-20°C to 60°C (-4°F to 140°F)
Float Charge Voltage:	
◦ Charge voltage at 25°C (77°F)	2.275±1%/cell
◦ Temperature correction factor from 25°C (77°F)	-3mV per °C/cell
Cyclic (or Boost) Charge Voltage	
◦ Cyclic voltage at 25°C (77°F)	2.45±2%/cell
◦ Temperature correction factor from 25°C (77°F)	-4mV per °C/cell



CERTIFICATIONS/COMPLIANCE

- ISO 9001
- ISO 14001
- IEC 61056-1
- IEC 60896-21
- UL recognized component, UL1989
- TAA Compliant - Available
- DRC Conflict Free

TERMINAL OPTIONS



Features providing longer life:

HT X Alloy™

Proprietary Additives

Lead Calcium Grids

Primary Lead

Strategic use of Tin

Optimized AGM Separators

Applications:

Security Systems

Fire Protection & Life Safety

Emergency Lighting

Uninterruptible Power Supply (UPS)

Solar & Wind Support Systems

Power Packs

Non-spillable, meets or exceeds DOT and IATA requirements for non-hazardous transportation



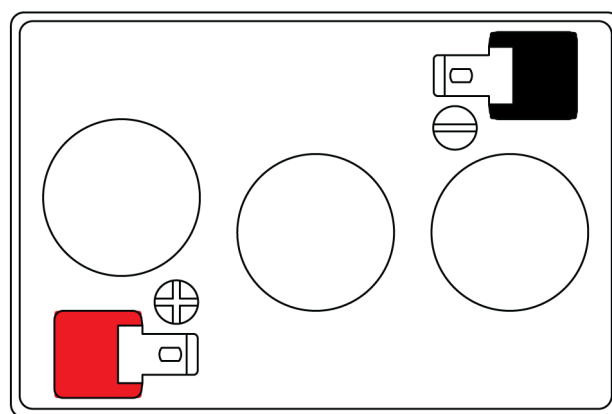
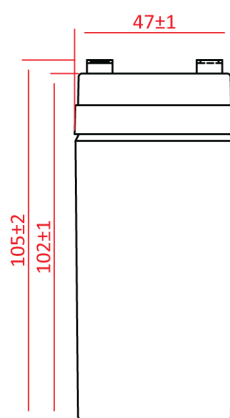
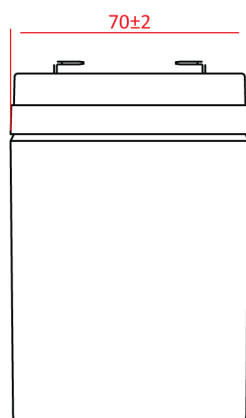
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Discharge, Watts @ 25°C (77°F)

End vpc	5m	10m	15m	30m	1h	1.5h	2h	3h	5h	8h	10h	20h
1.80vpc	94.4	63.8	48.2	30.0	17.4	12.2	9.78	6.99	4.70	3.13	2.59	1.36
1.75vpc	100	66.9	50.2	30.9	17.8	12.4	9.88	7.06	4.72	3.15	2.60	0.37
1.67vpc	107	70.2	52.3	31.9	18.0	12.6	10.1	7.18	4.79	3.18	2.62	0.38
1.60vpc	109	71.2	52.9	32.1	18.3	12.8	10.2	7.27	4.78	3.18	2.62	1.39

Discharge, Amps @ 25°C (77°F)

End vpc	5m	10m	15m	30m	1h	1.5h	2h	3h	5h	8h	10h	20h
1.80vpc	16.6	11.1	8.30	5.12	2.94	2.07	1.65	1.18	0.77	0.51	0.42	0.22
1.75vpc	17.7	11.7	8.70	5.32	3.03	2.12	1.68	1.20	0.78	0.52	0.43	0.23
1.67vpc	19.0	12.3	9.11	5.52	3.12	2.17	1.72	1.23	0.80	0.52	0.43	0.23
1.60vpc	19.6	12.7	9.30	5.63	3.17	2.21	1.74	1.24	0.80	0.53	0.43	0.23

Long Shelf Life

The extremely low self discharge rate allows the battery to be stored for extended periods, up to one year at normal ambient temperatures with no permanent loss of capacity

Order Number:

NP4.5-6

NP4.5-6FR

NP4.5-6-250

NP4.5-6-250FR

Terminal | Case Material

Faston .187 in. (F1) | UL94HB

Faston .187 in. (F1) | UL94V-0 (FR)

Faston .250 in. (F2) | UL94HB

Faston .250 in. (F2) | UL94V-0 (FR)

Distributed By:



WARNING: Cancer and Reproductive Harm. Wash hands after handling. www.P65Warnings.ca.gov