NP18-12

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:	NP18-12
Nominal Voltage:	12
Capacity: 20-hr rate, 1.75vpc @ 25°C (77°F)	17.6 Ah
Case Material Options:	UL94HB
	UL94V-0 (FR)
Terminal Options:	M5 Bolt & Nut
	Coming Soon, Faston .250 in. (F2)
Terminal Torque (Terminals using Bolts):	2.6Nm (23 in-lb)
Dimensions:	
◦ Length (mm|inches)	181.0 | 7.13
◦ Width (mm|inches)	76.0 | 2.99
◦ Case Height (mm|inches)	167.0 | 6.57
◦ Height over Terminal (mm|inches)	167.0 | 6.57
Weight (kg|lbs):	6.00 | 13.23
Max continuous discharge current, 5 seconds (A):	258 *(.250 terminal 180A)
Short circuit current (A):	525 (* .250 terminal 460A)
Max charge current (A):	4.300
Internal Resistance (mΩ):	~10.4

GENERAL

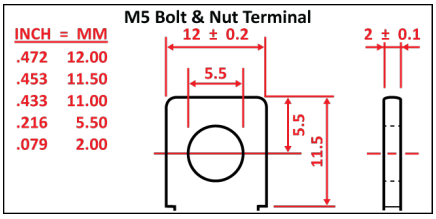
Design Life:	4-6 Years
Storage:	
◦ Capacity loss per month at 25°C (77°F)	~3%
Operating Temperature Range:	
◦ Storage (in fully charged condition)	-20°C to 60°C (-4°F to 140°F)
◦ Charge	-15°C to 50°C (5°F to 122°F)
◦ Discharge	-20°C to 60°C (-4°F to 140°F)
Float Charge Voltage:	
◦ Charge voltage at 25°C (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

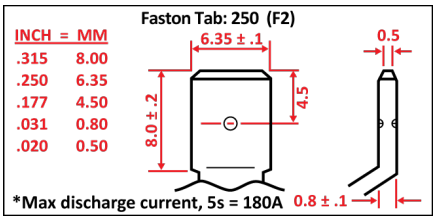


CERTIFICATIONS/COMPLIANCE

- 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

Pb MH28947

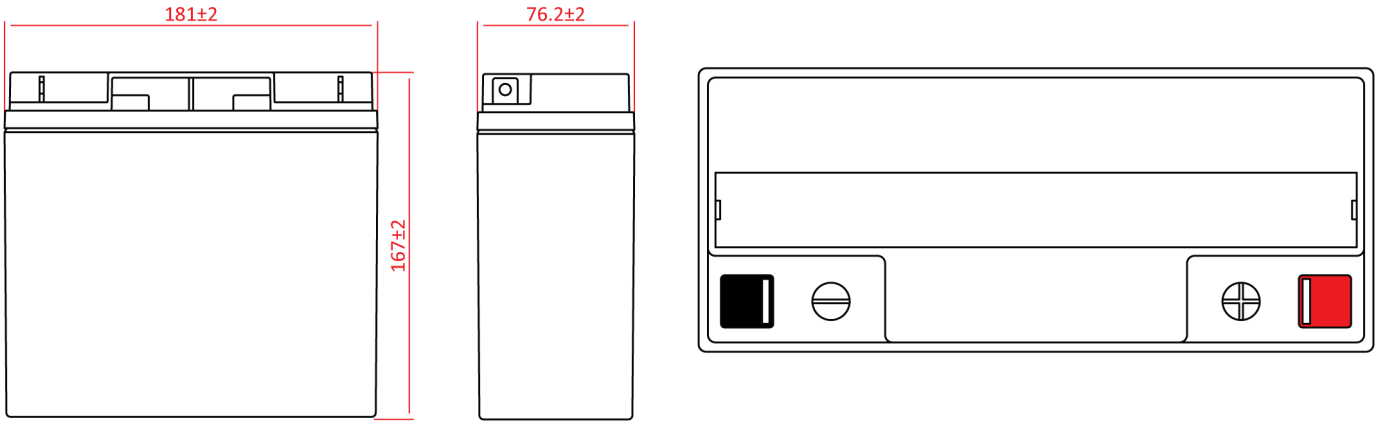
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Absorbed Glass Mat (AGM)



Discharge, Watts @ 25°C (77°F)												
End vpc	5m	10m	15m	30m	1h	1.5h	2h	3h	5h	8h	10h	20h
1.80vpc	739	534	412	251	146	101	78.4	56.0	36.4	23.8	19.0	10.5
1.75vpc	799	565	428	258	148	103	80.3	57.3	37.4	24.5	19.6	10.6
1.67vpc	854	585	438	263	150	104	81.7	58.3	38.1	25.0	20.0	10.7
1.60vpc	884	592	442	265	151	105	82.3	58.8	38.5	25.2	20.2	10.8

*.250 (F2) Terminal, anything less than a 1 hour discharge is for sizing only. Consult with GYES

Discharge, Amps @ 25°C (77°F)												
End vpc	5m	10m	15m	30m	1h	1.5h	2h	3h	5h	8h	10h	20h
1.80vpc	65.6	46.9	35.5	21.3	12.3	8.52	6.64	4.74	3.10	2.03	1.62	0.87
1.75vpc	71.9	49.9	36.9	22.0	12.5	8.65	6.72	4.80	3.12	2.04	1.63	0.88
1.67vpc	78.3	52.2	38.0	22.5	12.6	8.74	6.82	4.87	3.17	2.08	1.66	0.89
1.60vpc	81.9	53.2	39.0	23.1	13.0	8.98	6.96	4.97	3.22	2.11	1.68	0.90

*.250 (F2) Terminal, anything less than a 1 hour discharge is for sizing only. Consult with GYES

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:	Terminal | Case Material
NP18-12B	M5 Bolt & Nut | UL94HB
NP18-12BFR	M5 Bolt & Nut | UL94V-0 (FR)
NP18-12-250	Coming Soon, Faston .250 in. (F2) | UL94HB
NP18-12-250FR	Coming Soon, Faston .250 in. (F2) | UL94V-0 (FR)

Distributed By:

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

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