NP38-12

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:	NP38-12
Nominal Voltage:	12
Capacity: 20-hr rate, 1.75vpc @ 25°C (77°F)	40.6 Ah
Case Material Options:	UL94HB UL94V-0 (FR)
Terminal Options:	M5 Bolt & Nut
Terminal Torque (Terminals using Bolts):	2.6Nm (23 in-lb)
Dimensions:	
◦ Length (mm|inches)	197.0 | 7.76
◦ Width (mm|inches)	165.0 | 6.50
◦ Case Height (mm|inches)	170.0 | 6.69
◦ Height over Terminal (mm|inches)	170.0 | 6.69
Weight (kg|lbs):	13.20 | 29.10
Short circuit current (A):	1150
Max charge current (A):	10.15
Internal Resistance (mΩ):	~6.8

GENERAL

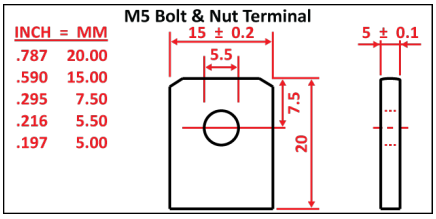
Design Life:	4-6 Years
Storage:	
◦ Capacity loss per month at 25°C (77°F)	~3%
Operating Temperature Range:	
◦ Storage (in fully charged condition)	-20°C to 60°C (-4°F to 140°F)
◦ Charge	-15°C to 50°C (5°F to 122°F)
◦ Discharge	-20°C to 60°C (-4°F to 140°F)
Float Charge Voltage:	
◦ Charge voltage at 25°C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

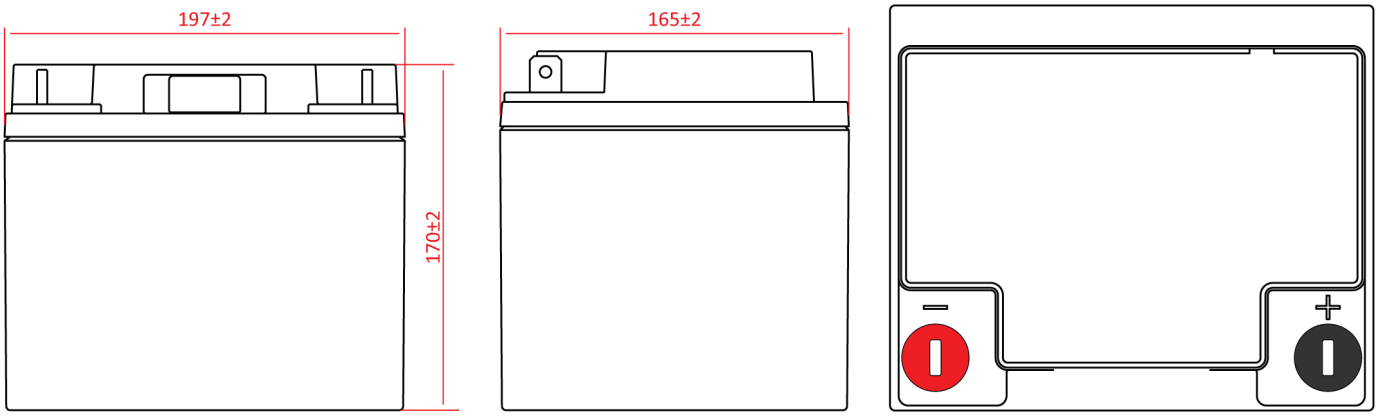
Creating the Future of Energy

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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	1,344	1,069	831	508	301	211	169	120	79.9	55.4	46.1	24.2
1.75vpc	1,468	1,132	875	530	312	218	174	124	82.2	56.9	46.6	24.4
1.67vpc	1,672	1,215	928	552	322	223	178	126	83.7	57.9	47.6	24.9
1.60vpc	1,761	1,244	946	558	324	226	179	126	83.7	57.9	48.1	25.2

Discharge, Amps @ 25°C (77°F)												
End vpc	5m	10m	15m	30m	1h	1.5h	2h	3h	5h	8h	10h	20h
1.80vpc	119	93.7	72.1	43.4	25.4	17.8	14.2	10.0	6.59	4.53	3.77	1.97
1.75vpc	132	100	76.8	45.7	26.6	18.5	14.7	10.4	6.82	4.68	3.89	2.03
1.67vpc	156	111	83.9	48.8	28.0	19.3	15.4	10.8	7.02	4.81	3.98	2.08
1.60vpc	168	116	86.9	50.0	28.5	19.7	15.5	10.9	7.07	4.83	4.00	2.08

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
NP38-12B	M5 Bolt & Nut | UL94HB
NP38-12BFR	M5 Bolt & Nut | UL94V-0 (FR)

Distributed By:

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

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