NP24-12

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:	NP24-12
Nominal Voltage:	12
Capacity: 20-hr rate, 1.75vpc @ 25°C (77°F)	24.0 Ah
Case Material Options:	UL94HB
	UL94V-0 (FR)
Terminal Options:	M5 Bolt & Nut
	Faston .250 in. (F2)
	M5 Recessed Post
Terminal Torque (Terminals using Bolts):	2.6Nm (23 in-lb)
Dimensions:	
◦ Length (mm|inches)	166.0 | 6.54
◦ Width (mm|inches)	175.0 | 6.89
◦ Case Height (mm|inches)	125.0 | 4.92
◦ Height over Terminal (mm|inches)	125.0 | 4.92
Weight (kg|lbs):	8.30 | 18.30
Short circuit current (A):	770 (* .250 terminal 460A)
Max charge current (A):	6.000
Internal Resistance (mΩ):	~9.0

GENERAL

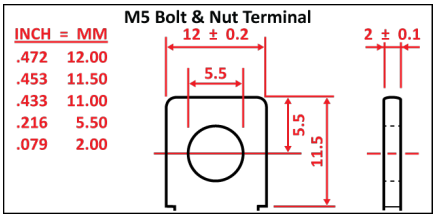
Design Life:	4-6 Years
Storage:	
◦ Capacity loss per month at 25°C (77°F)	~3%
Operating Temperature Range:	
◦ Storage (in fully charged condition)	-20°C to 60°C (-4°F to 140°F)
◦ Charge	-15°C to 50°C (5°F to 122°F)
◦ Discharge	-20°C to 60°C (-4°F to 140°F)
Float Charge Voltage:	
◦ Charge voltage at 25°C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

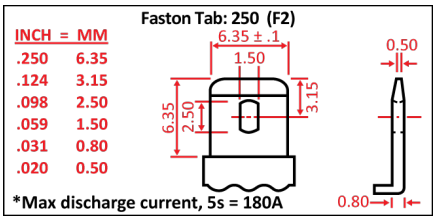


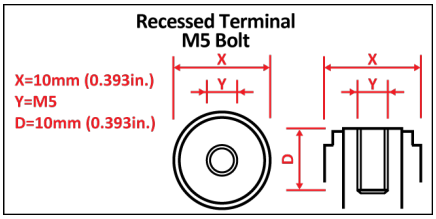
CERTIFICATIONS/COMPLIANCE

- 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

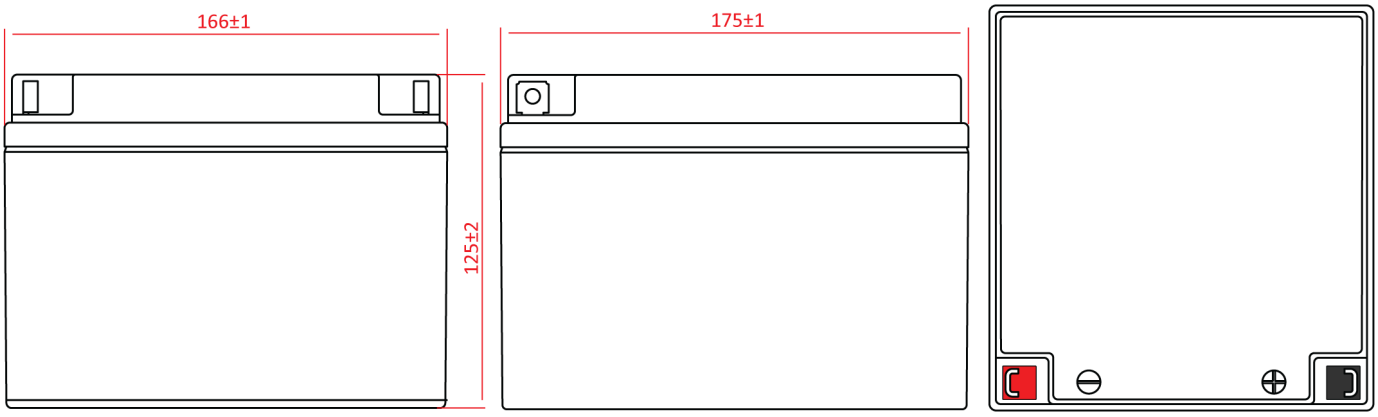
Creating the Future of Energy

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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	909	690	538	329	192	134	106	74.0	50.3	32.1	26.5	14.4
1.75vpc	980	733	559	339	195	136	107	74.6	50.7	32.3	26.7	14.4
1.67vpc	1,048	753	569	342	197	137	108	75.4	51.2	32.6	27.0	14.6
1.60vpc	1,100	764	574	345	197	138	109	76.3	51.8	33.1	27.4	14.8

*.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	81.0	60.0	46.0	28.3	16.3	11.4	8.90	6.17	4.19	2.67	2.20	1.19
1.75vpc	89.0	65.0	48.0	29.2	16.6	11.5	9.00	6.23	4.24	2.69	2.22	1.20
1.67vpc	96.0	67.5	49.2	29.7	16.7	11.6	9.12	6.27	4.27	2.71	2.24	1.21
1.60vpc	103	69.0	50.0	29.9	16.8	11.7	9.20	6.36	4.32	2.75	2.27	1.22

*.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
NP24-12B	M5 Bolt & Nut | UL94HB
NP24-12BFR	M5 Bolt & Nut | UL94V-0 (FR)
NP24-12-250	Faston .250 in. (F2) | UL94HB
NP24-12-250FR	Faston .250 in. (F2) | UL94V-0 (FR)
NP24-12R	M5 Recessed Post | UL94HB
NP24-12RFR	M5 Recessed Post | UL94V-0 (FR)

Distributed By:

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

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