Product Specification NP38-12FR

Yuasa NP Series VRLA Battery, 5 Years Design Life

The Yuasa NP series is a high energy density Valve Regulated Lead Acid (VRLA) battery that uses advanced plate technology and sealed construction. Its unique sealing technique prevents electrolyte leakage when the battery is mounted either horizontally or vertically. Manufactured in Yuasa quality assured factories, the Yuasa NP series offers absolute reliability and minimal maintenance for end users.

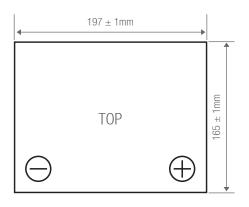
- Sealed construction with pressure relief system
- Operation in any orientation (except in an inverted position)
- Heavy duty grids
- Low self discharge
- Wide operating temperature range (-15°C to +50°C)
- Recyclable materials used in battery

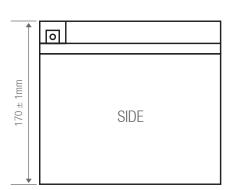
General Performance		
Battery	NP38-12FR	
Application	Floating	
Design Life	5 Years	
Nominal Capacity	38Ah	
Actual Capacity at 25°C	1 hour rate to 1.60Vpc	23.75Ah
	5 hour rate to 1.70Vpc	32.8Ah
	10 hour rate to 1.75Vpc	34.5Ah
	20 hour rate to 1.75Vpc	38Ah

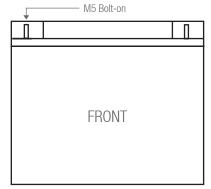
NP38-12 FR 12V 38Ah
valve regulated lead-acid type rechargeable battery
CAUTION CONDUCT - 00 TOT CHARGE IN A MALE CONTROLET

Electrolyte	
Fully charge density at 25°C	1.300
Density Range	1.290-1.310
Gelled/Absorbed	AGM
Mounting Orientation	Horizontal/Vertical

Platesa	
Positive Plates:	
Number/cell	3
Туре	Flat
Material of grid	Lead-Calcium-Tin Alloy
Thickness	3.5mm
Negative Plates:	
Number/cell	4
Туре	Flat
Material of grid	Lead-Calcium-Tin Alloy
Thickness	2mm







All reasonable care has been taken to ensure that the data presented in this document is accurate for the purpose for which it is presented. CenturyYuasa reserves the right to make changes to its products and information contained in this document without notice, and shall not be held liable for any loss or damage claimed to have arisen as a result of the use of this brochure.



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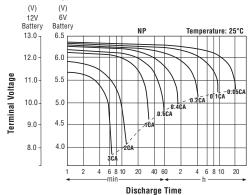
Physical Properties	
Separators	
Туре	Glass Mat
Is glass fibre included?	Yes
Container & Cover Materials	
Lid Material, Colour	Acrylonitrile Butadiene Styrene ABS / Black
Container Material, Colour	Acrylonitrile Butadiene Styrene ABS / Grey
Flame Retardant	Yes
Safety Vent Operational Pressure	20kPa
Dimensions:	
Overall Width	197mm
Depth	165mm
Overall Height	170mm
Battery Weight (kg)	
Total Weight (wet)	13.8kg

Electrical Properties			
Self Discharge Rate @ 25°C	<3% per mont	h	
Normal Charge (Amperes)	3.8A		
Max. Charge (Amperes)	9.5A		
Internal Resistance (m0HMS)	6 mΩ		
Max. Sustained Current without damage (discharging)	200A		
Volts End of Charge	2.260Vpc @ 25°C		
	20°C	25°C	30°C
Float Voltage (Vpc)	2.275Vpc	2.260Vpc	2.245Vpc
Float Current (mA)	<38mA	<38mA	<38mA
Initial Short circuit current (A)	2250		
Efficiency at 10 hour rate (%):			
Ampere-Hour	>90%		
Watt-Hour	>78%		

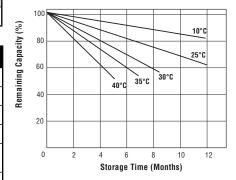
Torque Setting	
Terminal Torque Setting	2.5 N.m.

Compliant Standard	
Battery Standard	JIS C8702

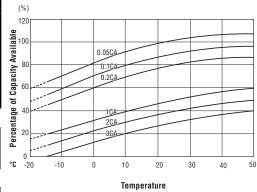
Discharge Characteristic Curves: NP Batteries



■ Self Discharge Characteristics



■ Temperature Effects in Relation to Battery Capacity



CenturyYuasa

An affiliated business of the GS Yuasa Corporation, Century Yuasa has an 80-year history of supplying a range of stored energy solutions to the Australian market. An established network of sales and distributions offices throughout Australia and New Zealand has seen the business gain the trust and respect from its customers by focusing on quality products and exceptional customer service. CenturyYuasa is Australia's enduring manufacturer of stored energy products.