Product Specification NP1.2-12FR

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.

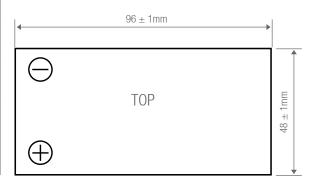
- Sealed construction with pressure relief system
- Operation in any orientation (except in an inverted position)
- Heavy duty grids
- Low self discharge
- Wide operating temperature range (-15°C to +50°C)
- Recyclable materials used in battery

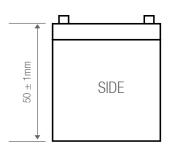
General Performance		
Battery	NP12-12FR	
Application	Floating	
Design Life	5 Years	
Nominal Capacity	1.2Ah	
Actual Capacity at 25°C	1 hour rate to 1.60Vpc	0.75Ah
	5 hour rate to 1.70Vpc	1.03Ah
	10 hour rate to 1.75Vpc	1.09Ah
	20 hour rate to 1.75Vpc	1.2Ah

W	NP1.2-12FR 12V 1.2Ah
YUASA	valve regulated lead-acid type rechargeable battery
	CAUTION: -ANDERSON SHORT CHROUT -BOWN OF CAMPINE -BOWN O
	YUASA CORPORATION

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

Plates	
Positive Plates:	
Number/cell	2
Туре	Flat
Material of grid	Lead-Calcium-Tin Alloy
Thickness	3.3mm
Negative Plates:	
Number/cell	6
Туре	Flat
Material of grid	Lead-Calcium-Tin Alloy
Thickness	2.2mm







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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	96mm	
Depth	48mm	
Height	50mm	
Overall Height	54.5mm	
Battery Weight (kg)		
Total Weight (wet)	0.57kg	

Electrical Properties			
Self Discharge Rate @ 20°C	<3% per month		
Normal Charge (Amperes)	0.12A		
Max. Charge (Amperes)	0.30A		
Internal Resistance (m0HMS)	110 mΩ		
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)	<1.2mA	<1.2mA	<1.2mA
Initial Short circuit current (A)	100		
Efficiency at 10 hour rate (%):			
Ampere-Hour	>90%		
Watt-Hour	>80%		

Compliant Standard	
Battery Standard	JIS C8702

■ Discharge Characteristic Curves: NP Batteries (V) 12V Battery Battery 13.0 -6.5 12.0 **Terminal Voltage** 11.0

20 40 60

Discharge Time

■ Self Discharge Characteristics

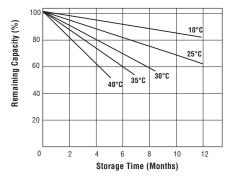
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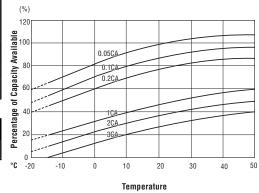
4.5

4.0

9.0 8.0



■ 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.