## Product Specification NP7-6FR

#### 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

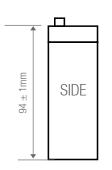
General Performance		
Battery	NP7-6FR	
Application	Standing	
Design Life	5 Years	
Nominal Capacity	7Ah	
Actual Capacity at 25°C	1 hour rate to 1.60Vpc	4.38Ah
	5 hour rate to 1.70Vpc	6.03Ah
	10 hour rate to 1.75Vpc	6.36Ah
	20 hour rate to 1.75Vpc	7Ah

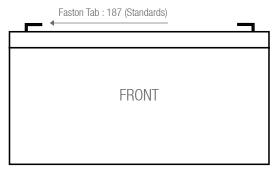


Electrolyte	
Fully charge density at 25°C	1.300
Density Range	1.290-1.310
Gelled/Absorbed	Absorbed
Mounting Orientation	Horizontal/Vertical

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







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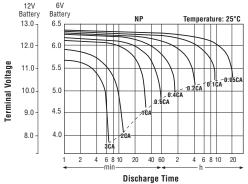
### Yuasa NP Series VRLA Battery, 5 Years Design Life

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	151mm	
Depth	34mm	
Height	94mm	
Overall Height	97.5mm	
Battery Weight (kg)		
Total Weight (wet)	1.35kg	

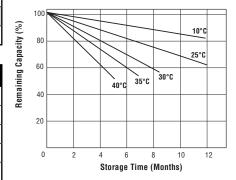
Electrical Properties			
Self Discharge Rate @ 20°C	<3% per month		
Normal Charge (Amperes)	0.7A		
Max. Charge (Amperes)	1.75A		
Internal Resistance (m0HMS)	12.5 mΩ		
Volts End of Charge	2.260Vpc @ 25°C		
	20°C	25°C	30°C
Float Voltage (Vpc)	2.275Vpc	2.260Vpc	2.245Vpc
Float Current (mA)	<7mA	<7mA	<7mA
Initial Short circuit current (A)	225		
Efficiency at 10 hour rate (%):			
Ampere-Hour	>90%		
Watt-Hour	>80%		

Compliant Standard	
Battery Standard	JIS C8702

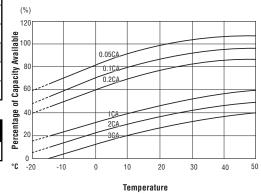
# Discharge Characteristic Curves: NP Batteries (V) (V) 12V 6V Battery Battery NP Temperature: 25°C



#### ■ 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.