

# Product Specification NP3-6FR



## 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

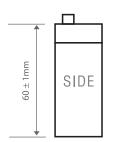
General Performance		
Battery	NP3-6FR	
Application	Standing	
Design Life	5 Years	
Nominal Capacity	3Ah	
Actual Capacity at 25°C	1 hour rate to 1.60Vpc	1.88Ah
	5 hour rate to 1.70Vpc	2.6Ah
	10 hour rate to 1.75Vpc	2.73Ah
	20 hour rate to 1.75Vpc	3Ah

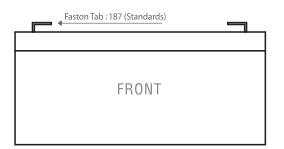


Electrolyte	
Fully charge density at 25°C	1.300
Density Range	1.290-1.310
Gelled/Absorbed	Absorbed
Mounting Orientation	Horizontal/Vertical

Plates			
Positive Plates:			
Number/cell	5		
Type	Flat		
Material of grid	Lead-Calcium-Tin Alloy		
Thickness	3.2mm		
Negative Plates:			
Number/cell	6		
Type	Flat		
Material of grid	Lead-Calcium-Tin Alloy		
Thickness	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	134mm
Depth	34mm
Height	60mm
Overall Height	64mm
Battery Weight (kg)	
Total Weight (wet)	0.65kg

Electrical Properties			
Self Discharge Rate @ 20°C	<3% per month		
Normal Charge (Amperes)	0.3A		
Max. Charge (Amperes)	0.7A		
Internal Resistance (mOHMS)	30 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)	<3mA	<3mA	<3mA
Initial Short circuit current (A)	225		
Efficiency at 10 hour rate (%):			
Ampere-Hour	>90%		
Watt-Hour	>80%		

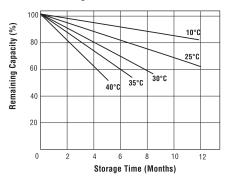
Compliant Standard		
Battery Standard	JIS C8702	

#### ■ Discharge Characteristic Curves: NP Batteries 12V Battery 6V Battery 13.0 6.5 12.0 **Terminal Voltage** 5.5 11.0 10.0 5.0 4.5 9.0 4.0 8.0

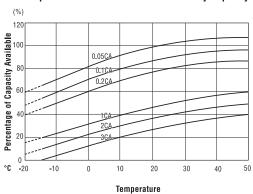
40 60

20 Discharge Time 4 6 8 10 20

#### **■** Self Discharge Characteristics



#### **■** Temperature Effects in Relation to Battery Capacity





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