

# Yuasa Technical Data Sheet

## Yuasa NPW45-12 12V 7.5Ah - Yuasa NPW series standby AGM VRLA battery

### Specifications

Nominal Voltage (V)	12 V
10m rate Constant Power (Typ) to 9.6V at 20°C (/Block)	273
10m rate Constant Power (Typ) to 1.6V/cell at 20°C (/Cell)	42
20-hr rate Capacity to 1.75V /Cell at 20°C (Ah)	7.5
10-hr rate Capacity to 1.8V /Cell at 20°C (Ah)	6.6

### Dimensions

Length (mm)	151 (±1)
Width (mm)	65 (±1)
Height (mm)	94 (±1)
Weight (kg)	2.7

### Terminal Type

Terminal Type	Faston - 6.35mm
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### Operating Temperature Range

Storage (in fully charged condition)	-20°C to +60°C
Charge	-15°C to +50°C
Discharge	-20°C to +60°C

### Storage

Capacity loss per month at 20°C (% approx.)	3
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### Case Material

Case Material	ABS (UL94:HB)
Standard or FR Case	Standard

### Charge Voltage

Float charge voltage at 20°C /Block (±1%)	13.65
Float charge voltage at 20°C /Cell (±1%)	2.275
Float Chg voltage tmp correction factor from std 20°C (mV)	-3
Cyclic (or Boost) charge Voltage at 20°C (V) /Block (±3%)	14.5
Cyclic (or Boost) charge Voltage at 20°C (V) /Cell (±3%)	2.42
Cyclic Chg voltage tmp correction factor from std 20°C (mV)	-4

### Charge Current

Float charge current limit (A)	2.125
Cyclic (or Boost) charge current limit (A)	2.125

### Maximum Discharge Current

Maximum discharge current 1s (A)	105
Maximum discharge current 1m (A)	42

### Short-Circuit Current & Internal Resistance

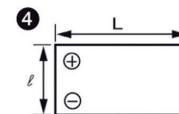
Short-Circuit current - according to EN IEC 60896-21 (A)	105
Internal resistance (mΩ)	24.0000

### Design Life & Approvals

EUROBAT Classification	Standard commercial:
	3 to 5 years
Eurobat Life	3 to 5 years
Yuasa design life at 20°C (yrs)	Up to 5 years



### Layout



### Certifications

ISO9001 Quality Management Systems  
ISO14001 Quality Management Systems  
UNDERWRITERS LABORATORIES Inc.



## Safety

### Installation

Can be installed and operated in orientations up to 90° from the upright position.

### Handles

Batteries must not be suspended by their handles (where fitted).

### Vent valves

Each cell is fitted with a low pressure release valve to allow gasses to escape and then reseal.

### Gas release

VRLA batteries release hydrogen gas which can form explosive mixtures in the air. Do not place inside a sealed container.

### Recycling

YUASA's VRLA batteries must be recycled at the end of life in accordance with local and national laws and regulations.



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