

Yuasa Technical Data Sheet

Yuasa SWL+4000 12V 135Ah - Yuasa SWL+ series AGM VRLA high rate battery

Specifications

Nominal Voltage (V)	12 V
10m rate Constant Power (Typ) to 9.6V at 20°C (/Block)	4000
10m rate Constant Power (Typ) to 1.6V/cell at 20°C (/Cell)	667
20-hr rate Capacity to 1.75V /Cell at 20°C (Ah)	135
10-hr rate Capacity to 1.8V /Cell at 20°C (Ah)	124

Dimensions

Length (mm)	350
Width (mm)	173
Height (mm)	272
Weight (kg)	49.2

Terminal Type

Terminal Type	M8 (F)
Torque (Nm)	6

Operating Temperature Range

Storage (in fully charged condition)	- 20°C to + 50°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

Cyclic (or Boost) charge current limit (A)	31
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Maximum Discharge Current

Maximum discharge current 1s (A)	1200
Maximum discharge current 1m (A)	600

Short-Circuit Current & Internal Resistance

Short-Circuit current - according to EN IEC 60896-21 (A)	3000
Internal resistance (mΩ)	3.0000

Design Life & Approvals

EUROBAT Classification	Very long life: 12+ years
Eurobat Life	12 years or longer



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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