Yuasa Technical Data Sheet

Yuasa SWL750 Industrial VRLA Battery

Specifications
Nominal voltage (V) 12
10m rate Constant Power (Typ) to 9.6V at 20°C (W/Block) 767
10m rate Constant Power (Typ) to 1.6V/cell at 20°C (W/Cell) 125
20-hr rate Capacity to 10.5V at 20°C (Ah) 25.0
10-hr rate Capacity to 10.8V at 20°C (Ah) 22.9

Dimensions
Length (mm) 166 (±2)
Width (mm) 175 (±1)
Height (mm) 125 (±2)
Mass (kg) 9.8

Terminal Type
Threaded terminal - (M=Male or F=Female) M5 (F)
Torque (Nm) 2.5

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

Case Material
Standard ABS (UL94:HB)
FR version available UL94:V0

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

Charge Current
Float charge current limit (A) No limit
Cyclic (or Boost) charge current limit (A) 5.725

Maximum Discharge Current
1 second (A) 500
1 minute (A) 150

Short-Circuit Current & Internal Resistance
Internal resistance - according to EN IEC 60896-21 20.47 (mΩ)
Short-Circuit current - according to EN IEC 60896-21 (A) 714

Impedance
Measured at 1 kHz (mΩ) 8.5

Design Life & Approvals
EUROBAT Classification: Long life 10 to 12
Yuasa design life at 20°C (yrs) up to 10

3rd Party Certifications
ISO9001 - Quality Management Systems
ISO14001 - Environmental Management Systems
ISO45001 OHSAS Management Systems
UNDERWRITERS LABORATORIES Inc.

Safety
Installation
Can be installed and operated in any orientation except permanently inverted.

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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