Yuasa Technical Data Sheet

Yuasa SWL1100 Industrial VRLA Battery

Specifications
Nominal voltage (V) 12
10m rate Constant Power (Typ) to 9.6V at 20°C (W/Block) 1202
10m rate Constant Power (Typ) to 1.6V/cell at 20°C (W/Cell) 183.3
20-hr rate Capacity to 10.5V at 20°C (Ah) 40.6
10-hr rate Capacity to 10.8V at 20°C (Ah) 39.6

Dimensions
Length (mm) 197 (±2)
Width (mm) 165 (±1)
Height (mm) 170 (±2)
Mass (kg) 14.5

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 temp 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 temp correction factor from std 20°C (mV) -4

Charge Current
Float charge current limit (A) No limit
Cyclic (or Boost) charge current limit (A) 9.9

Maximum Discharge Current
1 second (A) 500
1 minute (A) 200

Short-Circuit Current & Internal Resistance
Internal resistance - according to EN IEC 60896-21 14.4 (mΩ)
Short-Circuit current - according to EN IEC 60896-21 (A) 1005

Impedance
Measured at 1 kHz (mΩ) 7.5

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

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