Yuasa Technical Data Sheet

Yuasa SWL2500E Industrial VRLA Battery

Charifications		
Specifications Nominal voltage (V)	12	
10m rate Constant Power (Typ) to 9.6V at 20°C	2940	
(W/Block) 10m rate Constant Power (Typ) to 1.6V/cell at 20°C (W/Cell)	490	
10-hr rate Capacity to 1.8V/Cell at 20°C (Ah) 20-hr rate Capacity to 1.75V/Cell at 20°C (Ah)	91.4 93.6	
Dimensions		
Length (mm) Width (mm)	305 (±3)	
Height (mm)	168 (±2) 224.5 (±1)	
Mass (kg)	33	
Terminal Type		
Threaded terminal - (M=Male or F=Female) Torque (Nm)	M6 (F) 4.8	
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	
Case Material		
Standard	ABS (UL94:HB)	
FR version available	UL94:V0	
Charge Voltage	13 65 (+1%)	
Float charge voltage at 20°C (V)/Block	13.65 (±1%) 2.275 (±1%)	
Float charge voltage at 20°C (V)/Block Float charge voltage at 20°C (V)/Cell Float Chg voltage tmp correction factor from std	13.65 (±1%) 2.275 (±1%) -3	
Float charge voltage at 20°C (V)/Block Float charge voltage at 20°C (V)/Cell Float Chg voltage tmp correction factor from std 20°C (mV)	2.275 (±1%) -3	
Float charge voltage at 20°C (V)/Block Float charge voltage at 20°C (V)/Cell Float Chg voltage tmp correction factor from std 20°C (mV) Cyclic (or Boost) charge Voltage at 20°C (V)/Block	2.275 (±1%) -3 14.5 (±3%)	
Float charge voltage at 20°C (V)/Block Float charge voltage at 20°C (V)/Cell Float Chg voltage tmp correction factor from std 20°C (mV)	2.275 (±1%) -3 14.5 (±3%) 2.42 (±3%)	
Float charge voltage at 20°C (V)/Block Float charge voltage at 20°C (V)/Cell Float Chg voltage tmp correction factor from std 20°C (mV) Cyclic (or Boost) charge Voltage at 20°C (V)/Block Cyclic (or Boost) charge Voltage at 20°C (V)/Cell	2.275 (±1%) -3 14.5 (±3%) 2.42 (±3%)	
Float charge voltage at 20°C (V)/Block Float charge voltage at 20°C (V)/Cell Float Chg voltage tmp correction factor from std 20°C (mV) Cyclic (or Boost) charge Voltage at 20°C (V)/Block Cyclic (or Boost) charge Voltage at 20°C (V)/Cell Cyclic Chg voltage tmp correction factor from std 20°C (mV) Charge Current	2.275 (±1%) -3 14.5 (±3%) 2.42 (±3%) -4	
Float charge voltage at 20°C (V)/Block Float charge voltage at 20°C (V)/Cell Float Chg voltage tmp correction factor from std 20°C (mV) Cyclic (or Boost) charge Voltage at 20°C (V)/Block Cyclic (or Boost) charge Voltage at 20°C (V)/Cell Cyclic Chg voltage tmp correction factor from std 20°C (mV) Charge Current Float charge current limit (A)	2.275 (±1%) -3 14.5 (±3%) 2.42 (±3%) -4 No limit	
Float charge voltage at 20°C (V)/Block Float charge voltage at 20°C (V)/Cell Float Chg voltage tmp correction factor from std 20°C (mV) Cyclic (or Boost) charge Voltage at 20°C (V)/Block Cyclic (or Boost) charge Voltage at 20°C (V)/Cell Cyclic Chg voltage tmp correction factor from std 20°C (mV) Charge Current Float charge current limit (A) Cyclic (or Boost) charge current limit (A)	2.275 (±1%) -3 14.5 (±3%) 2.42 (±3%) -4	
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Float charge voltage at 20°C (V)/Block Float charge voltage at 20°C (V)/Cell Float Chg voltage tmp correction factor from std 20°C (mV) Cyclic (or Boost) charge Voltage at 20°C (V)/Block Cyclic (or Boost) charge Voltage at 20°C (V)/Cell Cyclic Chg voltage tmp correction factor from std 20°C (mV) Charge Current Float charge current limit (A) Cyclic (or Boost) charge current limit (A)	2.275 (±1%) -3 14.5 (±3%) 2.42 (±3%) -4 No limit	
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Float charge voltage at 20°C (V)/Block Float charge voltage at 20°C (V)/Cell Float Chg voltage tmp correction factor from std 20°C (mV) Cyclic (or Boost) charge Voltage at 20°C (V)/Block Cyclic (or Boost) charge Voltage at 20°C (V)/Cell Cyclic Chg voltage tmp correction factor from std 20°C (mV) Charge Current Float charge current limit (A) Cyclic (or Boost) charge current limit (A) Maximum Discharge Current 1 second (A) 1 minute (A) Short-Circuit Current & Internal Resistance Internal resistance - according to EN IEC 60896-2	2.275 (±1%) -3 14.5 (±3%) 2.42 (±3%) -4 No limit 22.5 1000 500	
Float charge voltage at 20°C (V)/Block Float charge voltage at 20°C (V)/Cell Float Chg voltage tmp correction factor from std 20°C (mV) Cyclic (or Boost) charge Voltage at 20°C (V)/Block Cyclic (or Boost) charge Voltage at 20°C (V)/Cell Cyclic Chg voltage tmp correction factor from std 20°C (mV) Charge Current Float charge current limit (A) Cyclic (or Boost) charge current limit (A) Maximum Discharge Current 1 second (A) 1 minute (A) Short-Circuit Current & Internal Resistance Internal resistance - according to EN IEC 60896-2° (mΩ)	2.275 (±1%) -3 14.5 (±3%) 2.42 (±3%) -4 No limit 22.5 1000 500 16.5	
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Float charge voltage at 20°C (V)/Block Float charge voltage at 20°C (V)/Cell Float Chg voltage tmp correction factor from std 20°C (mV) Cyclic (or Boost) charge Voltage at 20°C (V)/Block Cyclic (or Boost) charge Voltage at 20°C (V)/Cell Cyclic Chg voltage tmp correction factor from std 20°C (mV) Charge Current Float charge current limit (A) Cyclic (or Boost) charge current limit (A) Maximum Discharge Current 1 second (A) 1 minute (A) Short-Circuit Current & Internal Resistance Internal resistance - according to EN IEC 60896-21 (mΩ) Short-Circuit current - according to EN IEC 60896-21 (A) Impedance Measured at 1 kHz (mΩ)	2.275 (±1%) -3 14.5 (±3%) 2.42 (±3%) -4 No limit 22.5 1000 500 16.5	
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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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Data Sheet generated on 06/09/2024 - E&OE

