

# Product Specification UXL360S-2



### Yuasa UXL Solar Series VRLA Battery, 8 Years Design Life

The Yuasa Ultra Extended Life series of Solar Valve Regulated Lead Acid (VRLA) batteries is a sealed VRLA battery that uses advanced plate technology construction. The unique construction and special separators prevent electrolyte leakage when the battery is mounted either vertically or horizontally. The gas recombination system eliminates the need for topping up of water for electrolytes. The extra heavy duty grids are made from unique lead-calcium alloys that provide high resistance against corrosion. These features, together with a special paste formulation, provide a long and reliable service life for shallow cyclic\* applications normally encountered in solar powered systems.

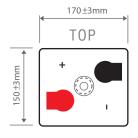
- Eliminates the need of topping up of electrolyte
- Wide operating temperature range (-15°C to +45°C)
  Can tolerate up to +55°C \*
- Sealed construction with automated vent
- Extra heavy duty grids
- Unique pasted lead plate
- Operation in any orientation (except in an inverted position)
- Reliable use in solar powered telecommunication applications since mid 1990's
- · Recyclable materials
- \* Contact Century Yuasa for information specific to your application

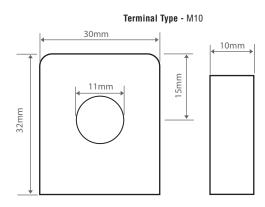
<b>General Performance</b>		
Battery	UXL360S-2	
Application	Cycle	
Design Life	8 Years	
Nominal Capacity	360Ah ( <i>to 1.80Vpc</i> )	
Nominal Voltage	2VDC	
Actual Capacity at 25°C	24 hour rate to 1.85Vpc	312Ah
	48 hour rate to 1.85Vpc	316Ah
	100 hour rate to 1.80Vpc	360Ah
	120 hour rate to 1.85Vpc	330Ah

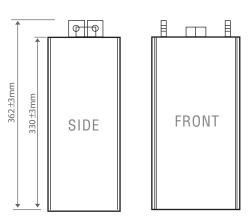
Electrolyte	
Fully charge density at 25°C	1.260
Density Range	1.250-1.270
Gelled/Absorbed	Absorbed
Mounting Orientation	Vertical / Horizontal

Plates	
Positive Plates:	
Number/cell	12
Туре	Flat Pasted
Material of grid	Lead-Calcium-Tin Alloy
Thickness	4.5mm
Negative Plates:	
Number/cell	13
Туре	Flat Pasted
Material of grid	Lead-Calcium-Tin Alloy
Thickness	2.6 mm









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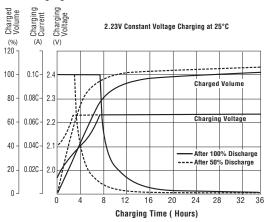
### Yuasa UXL Solar Series VRLA Battery, 8 Years Design Life

Physical Properties	
Separators	
Type	Glass Mat
Is glass fibre included?	Yes
Thickness	2mm
Container & Cover Materials	
Lid Material, Colour	Acrylonitrile Butadiene Styrene ABS / Grey
Container Material, Colour	Acrylonitrile Butadiene Styrene ABS / Grey
Flame Retardant	Yes - UL94VO
Safety Vent Operational Pressure	20kPa
Dimensions:	
Width	170mm ± 3
Depth	150mm ± 3
Height	330mm ± 3
Overall Height	362mm ± 3
Battery Weight (kg)	
Total Weight (wet)	24kg
Terminal	
Terminal Type	M10
Terminal Torque	14.7-19.6 N.m.

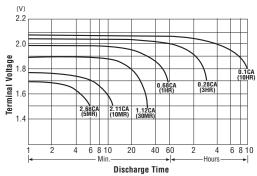
<b>Electrical Properties</b>			
Self Discharge Rate @ 25°C	<3% per month		
Normal Charge (Amperes)	30A		
Max. Charge (Amperes)	30A		
Internal Resistance (mOHMS)	0.40 mΩ		
Volts End of Charge	2.23Vpc		
Boost Voltage @ 25°C	2.28Vpc		
Max. sustained current without damage (discharging)	1053A (5 sec)		
	20°C	25°C	30°C
Float Voltage (Vpc)	2.25Vpc	2.23Vpc	2.22Vpc
Float Current (mA)	<300mA	<300mA	<300mA
Initial Short circuit current (A)	5000A		
Efficiency at 10 hour rate (%):			
Ampere-Hour	>90%		
Watt-Hour	>80%		
Number of Cycles at 25°C			
5% DoD	3000		
10% DoD	2400		
15% DoD	2050		
20% DoD	1700		

Compliant Standard	
Battery Standard	JIS C8704-2: 1999

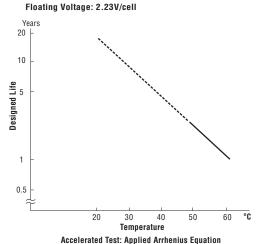
#### **■** Charging Characteristics



#### ■ Discharge Characteristics Curves at 25°C



## Accelerated Life Characteristics



CenturyYuasa

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