

Product Specification UXL600S-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.

General	Performance
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Battery	UXL600S-2		
Application	Cycle		
Design Life	8 Years		
Nominal Capacity	600Ah (<i>to 1.80Vpc</i>)		
Nominal Voltage	2VDC		
Actual Capacity at 25°C	24 hour rate to 1.85Vpc	521Ah	
	48 hour rate to 1.85Vpc	527Ah	
	100 hour rate to 1.80Vpc	600Ah	
	120 hour rate to 1.85Vpc	552Ah	

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	20		
Туре	Flat Pasted		
Material of grid	Lead-Calcium-Tin Alloy		
Thickness	4.2 mm		
Negative Plates:			
Number/cell	21		
Туре	Flat Pasted		
Material of grid	Lead-Calcium-Tin Alloy		
Thickness	2.4 mm		







- · 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







Compliant Standard

Battery Standard

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Physical Properties				Charging
Separators				arging arging rrent arging
Туре	Glass Mat	(%) (Å) (V)		
Is glass fibre included?	Yes			
Thickness	3.0 mm			100 - 0.10 - 2.4
Container & Cover Materials				80 - 0.080 - 2.3
Lid Material, Colour	Acrylonitrile I	Butadiene Styrene 🖌	ABS / Grey	
Container Material, Colour	Acrylonitrile I	Butadiene Styrene 🛛	ABS / Grey	60 - 0.06C - 2.2
Flame Retardant	Yes - UL94VC)		40 - 0.04C - 2.1
Safety Vent Operational Pressure	20kPa			20 - 0.020 - 2.0
Dimensions:				
Width	171mm ± 3			
Depth	241mm ± 3			
Height	330mm ± 3			
Overall Height	362mm ± 3			Discharge
Battery Weight (kg)				
Total Weight (wet)	35.9 kg			2.2
Terminal				2.0
Terminal Type	M10			- 8
Terminal Torque	14.7-19.6 N.r	n.		
Electrical Properties				
Self Discharge Rate @ 25°C	<3% per mon	ıth		
Normal Charge (Amperes)	50A	1 2		
Max. Charge (Amperes)	50A	_ 4		
Internal Resistance (mOHMS)	0.30 mΩ			-
Volts End of Charge	2.23Vpc	1		
Boost Voltage @ 25°C	2.28Vpc	Acceleration		
Max. sustained current without damage (discharging)	2500A (5 sec		Years	
	20°C	25°C	30°C	10
Float Voltage (Vpc)	2.25Vpc	2.23Vpc	2.22Vpc	10 -
Float Current (mA)	<500mA	<500mA	<500mA	91 5
Initial Short circuit current (A)	7400A			gned
Efficiency at 10 hour rate (%):				Desi
Ampere-Hour	>90%			1
Watt-Hour	>80%			1 1-
Number of Cycles at 25°C				
5% DoD	3000			
10% DoD	2400			1
15% DoD	2050			- Ac
20% DoD	1700			1
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JIS C8704-2: 1999

Characteristics 2.23V Constant Voltage Charging at 25°C charged Volum Charging Voltage After 100% Discharge ---- After 50% Discharge 16 20 24 28 32 36 4 8 12 Charging Time (Hours)

Discharge Characteristics Curves at 25°C



Accelerated Life Characteristics Floating Voltage: 2.23V/cell





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YU309-765a