

Safety Precautions

- Be sure to read through the instruction manual before using the battery.
- Keep the instruction manual near at hand for future reference.

Danger

Measures to prevent serious injury or death

- Be sure to ventilate the chamber where the battery is used so that the hydrogen concentration is kept at 0.2% or lower. Do not install the battery in an enclosed space. The battery may generate hydrogen gas, thus causing ignition or explosion.
- Do not short-circuit the positive (+) terminal and the negative (-) terminal of the battery. If using metallic tools such as wrenches or spanners ensure they are insulated with an insulating material. Otherwise burns, leakage of electrolyte, fire or explosion may result.
- Do not heat the battery, use near flames or other hot objects such as transformers. Otherwise leakage of electrolyte, fire or explosion may result.
- The battery contains poisonous diluted sulfuric acid. If the battery is damaged and electrolyte is attached to skin or clothing, immediately wash it off with large amounts of water. If it gets into eyes, wash with clean tap water and immediately seek medical treatment.
- Use only a damp cloth to wipe the battery. Using a dry cloth or duster may cause a build up of static electricity, thus resulting in an explosion.

Warning

Measures to prevent death, serious injury or minor injury

- Do not disassemble, modify or damage the battery.
- Be sure to replace the battery before the replacement period specified on the expiry label or in the instruction manual. Otherwise leakage of electrolyte, fire or explosion may result.
- Be sure to check the polarity (+, -) when making connections. Connections to reverse polarities may result in fire or damage to the charger.
- Do not use the battery if visible defects are present, such as corrosion of terminals, liquid leakage, or deformation of the battery container. Otherwise leakage of electrolyte, fire or explosion may result.

Cautions

Measures to prevent minor injury and / or damage to property

- Do not store the battery in a high temperature environment such as inside sun-heated vehicles, or intense direct sunlight. Otherwise the temperature of the battery may increase, thus causing leakage of electrolyte, fire or explosion.
- Be sure to use an exclusive battery charger to charge the battery, or charge it while observing charging conditions specified by Century Yuasa Batteries. Otherwise the battery may not charge fully, leakage of electrolyte, heating, explosion, performance deterioration, or decreased service life may result.
- Do not install the battery into equipment with an enclosed structure. Otherwise the equipment may be damaged or personal injury may result.
- Do not install the battery in a place that may be subject to water immersion. Otherwise electric shock or fire may result.
- Observe the following service temperature range of the battery. Otherwise performance deterioration, reduction of service life, damage, or deformation of the battery may result.
Discharge: -15°C to +50°C Charge: -15°C to +45°C Storage: -15°C to +45°C
- Be sure to perform periodic inspections of the battery at intervals specified by the local fire law or other regulations. Correct the items that do not conform to the description of the instruction manual. Otherwise damage or burnout of the battery may result.
- Be sure to keep the discharging current of the battery lower than the maximum value specified in the specification. Otherwise leakage of electrolyte, heating or explosion may result.
- Do not use the battery in places subjected to excessive dust. Otherwise short-circuit of the battery may result. (If it is used in a dusty location, check the status of the battery periodically.)
- Install the battery according to the relevant local fire law, or other regulations, if any.
- Be sure to allow the distance described in the specification or drawing to be maintained while installing the battery. Otherwise a failure of the battery or accident may occur. The distance to be observed may be governed by local law.
- Be sure to perform periodic inspections of the battery according to the description in the instruction manual. If applicable law exists, abide by the law in performing inspections. Contact us for inspection contract or inspection procedures.
- The battery requires electrical work to be performed by experts.
- Do not wet the battery with water or seawater. Otherwise damage of the battery, fire, or corrosion of the terminals or connecting boards may result.

YUASA – UXL SOLAR SERIES

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An affiliated business of the GS Yuasa Corporation, CenturyYuasa has an 80+ year history of supplying a range of stored energy solutions to the Australian market. An established network of sales and distribution offices throughout Australia and New Zealand has seen the business gain the trust and respect from its customers by focusing on quality products and exceptional customer service.

The portfolio within CenturyYuasa includes a wide range of stored energy products and services, as well as identifiable brands and unique technologies for the automotive, materials handling and standby power applications. Directly maintaining and operating three manufacturing centres in Australia and employing some 650 people, CenturyYuasa continues to be Australia's enduring manufacturer of stored energy products.



The Yuasa Ultra Extended Life series of Solar Valve Regulated Lead Acid (VRLA) batteries have been trusted in solar powered telecommunication applications since mid 1990's. The extra heavy duty grids, made from unique lead-calcium alloys, provide high resistance against corrosion. The UXL Solar series provide a long and reliable service life for shallow cyclic* applications normally encountered in solar powered systems.

Long Design Life

The expected design life is seven years in float cyclic applications at 25°C when operated in accordance to the manufacturer's specifications.

Sealed Construction

Yuasa's unique construction and sealing technique ensures no electrolyte leakage from case or terminals.

Electrolyte Suspension System

All UXL batteries utilise Yuasa's unique electrolyte suspension system, retaining the electrolytes in the separator material.

Valve Regulated Design

The batteries are equipped with a low pressure venting system which releases excess gas and automatically reseals in the event of gas build up in the battery. Note that on no account should the battery be charged in a sealed container. The design of Yuasa's UXL batteries incorporates oxygen recombination reactions to eliminate the need to replenish with water.

Applications

Yuasa UXL Solar batteries are suitable for all cyclic applications including:

- Telecommunications
- Utilities
- Data Acquisitions Systems
- Marine Equipment
- Fire and Security Systems
- Emergency Lighting
- Lighting

General Specifications

Battery	Nominal Voltage (V)	Nominal Capacity C100 (Ah)*	Dimensions (±3mm)				Weight (Kg)
			Width	Depth	Height	Overall Height	
UXL240S-2	2	240	106	170	330	362	16
UXL360S-2	2	360	150	170	330	362	24
UXL600S-2	2	600	171	241	330	362	38
UXL1200S-2	2	1200	171	471	330	362	76

Wide Operating Temperature Range

Designed to withstand a wide operating temperature range, from -15°C to +45°C, the UXL Solar batteries can also tolerate up to +55°C in some cases.*

Low Maintenance Operation

Due to the Yuasa's sealed construction and the recombination of gases within the cell, the battery is almost maintenance free.

Operation in any Orientation

The combination of sealed construction and Yuasa's unique electrolyte suspension system allows operation in any orientation, with no loss of performance or concern of electrolyte leakage (Excluding continuous use in an inverted position).

Separators

The separators used are made from a microfibre glass mat material which provide physical insulation between the plates, thus preventing inter-plate short circuits and significantly reducing the shedding of the active material.

Recyclable Materials used in Battery

All Yuasa lead acid batteries can be recycled.

*Contact Century Yuasa for information specific to your application



Performance Data

Constant current (Amps per cell) discharge at 25°C

1.85 Vpc	Model	Hours						
		24	48	72	100	120	192	240
	UXL240S-2	8.70	4.40	3.00	2.21	1.84	1.17	0.95
	UXL360S-2	13.00	6.58	4.50	3.31	2.75	1.75	1.43
	UXL600S-2	21.70	10.98	7.50	5.52	4.60	2.92	2.38
	UXL1200S-2	43.30	21.96	15.00	11.04	9.20	5.80	4.75

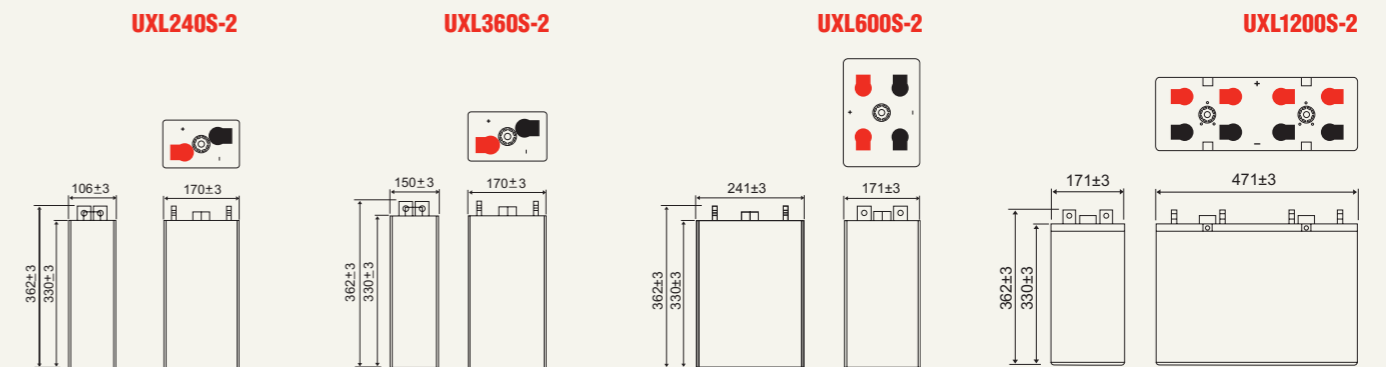
Watts per cell at 25°C

1.85 Vpc	Model	Hours						
		24	48	72	100	120	192	240
	UXL240S-2	17.20	8.70	5.93	4.37	3.64	2.31	1.88
	UXL360S-2	25.70	13.05	8.90	6.55	5.46	3.47	2.82
	UXL600S-2	43.00	21.75	14.83	10.92	9.09	5.78	4.70
	UXL1200S-2	85.70	43.50	29.66	21.85	18.19	11.57	9.39

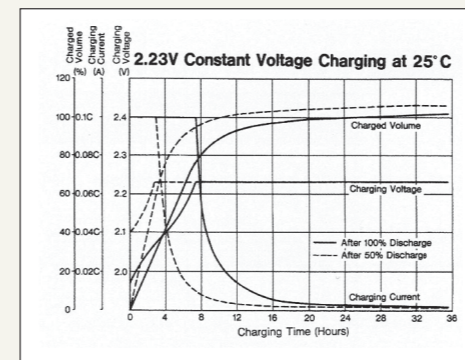
3 hour rate to 1.85 Vpc is mainly used for capacity discharge testing on site by technicians (commissioning or maintenance)

Customers should use 1.85 Vpc as the cut-off voltage

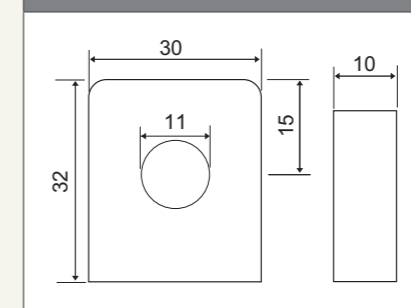
% DoD	No. of Cycles
5	3000
10	2400
15	2050
20	1700



Charging:



Terminal Type – M10



*End voltage 1.80 Vpc @ 25°C

