

REC RANGE BROCHURE



REC BATTERIES



Developed by the world renowned GS Yuasa Corporation, Yuasa REC batteries are a range of sealed maintenance free, VRLA batteries designed to deliver superior cycling performance in high rate discharge applications. Yuasa REC batteries incorporate Yuasa's unique electrolyte retention system, heavy duty lead acid calcium alloy grids and specialist raw materials for extra performance in both cyclic and float applications.

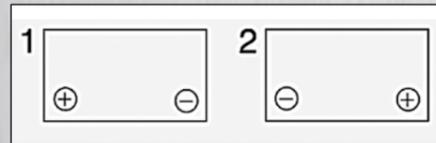
The sealed maintenance free design enables operation in any orientation* without compromising performance or risk of electrolyte leakage, making Yuasa REC batteries ideal for use in a diverse range of applications:

- ✓ Mobility scooters
- ✓ Golf trundles
- ✓ Electric toys
- ✓ Electric bikes & vehicles
- ✓ Caravans & motorhomes
- ✓ Auxiliary field equipment

Range Information

Battery Type	Warranty (Month)	V	20Ahr Capacity	L	W	H	TH	Terminal Layout (Polarity)	Weight Kg	Terminal Type	Flame Class
REC22-12	12	12	22	181	76	167	167	2	6.2	M5 insert	UL94HB
REC36-12	12	12	36	196	130	158	169	1	11	M5 insert	UL94HB
REC50-12	12	12	50	197	165	175	175	2	15.3	M5 insert	UL94HB
REC80-12	12	12	80	259	168	209.5	212.5	1	27	M6 insert	UL94HB

Terminal Layouts



Terminal Type

Battery Type	Terminal Type	mm	inch
REC22-12	M5 - Deep10	10.00	0.400
		9.00	0.360
		5.00	0.200
		3.00	0.120
		0.50	0.020
		0.10	0.004
REC36-12	M5 - Deep10	12.00	0.470
		8.00	0.310
		5.40	0.210
		5.00	0.200
		0.30	0.010
		0.05	0.002
REC50-12	M5 - Deep13.5	16.90	0.670
		15.60	0.610
		10.00	0.390
		5.00	0.200
		3.50	0.140
		3	
REC80-12	M6 - Deep15.5	16.90	0.670
		15.60	0.610
		10.00	0.390
		6.00	0.240
		3.00	0.120
		3	

*Excluding inverted use.

TECHNICAL FEATURES

Sealed Construction

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

Electrolyte Suspension System

All REC batteries utilise Yuasa's unique electrolyte suspension system incorporating a microfine glass mat to retain the maximum amount of electrolyte in the cells.

The electrolyte is retained in the separator material and there is no free electrolyte to escape from the cells. No gels or other contaminants are added.



Recombination Technology

The design of Yuasa's REC batteries incorporates the very latest oxygen recombination technology to eliminate the need for watering during normal use.

Maintenance Free Operation

Due to the perfectly sealed construction and the recombination of gasses within the cell, REC batteries are 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 fear of electrolyte leakage.

Valve Regulated Design

REC batteries are equipped with a simple, safe low pressure venting system which releases excess gas and automatically reseals should there be a build up of gas within the battery due to severe overcharge*.

Thick Lead Calcium Grids

Heavy duty lead calcium alloy grids provide extra performance and life in both cyclic and float applications and give unparalleled recovery from deep discharge.

Long Cycle Service Life

Depending upon the average depth of discharge, over 1000 discharge/charge cycles can be expected.

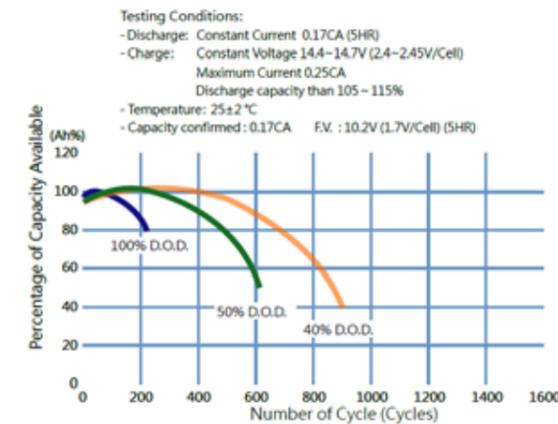
Separators

The use of specialist glass mat separator material provides efficient insulation between plates preventing inter-plate short circuits and prohibits shedding of active materials.

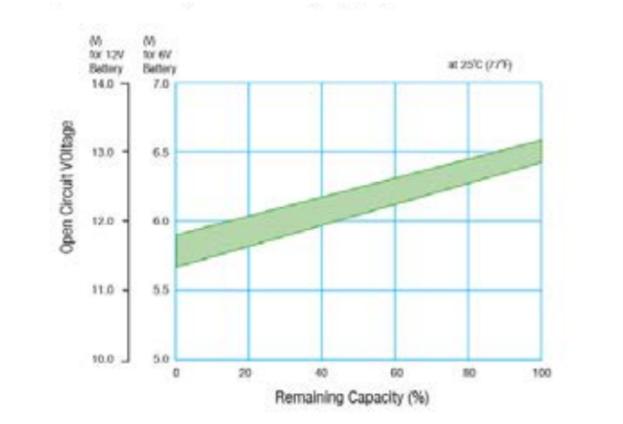
Long Shelf Life

The extremely low self discharge rate allows the battery to be stored for extended periods up to one year at normal ambient temperatures with no permanent loss of capacity.

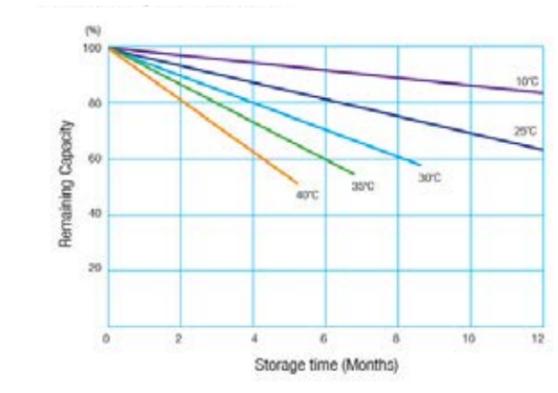
CYCLE SERVICE LIFE IN RELATION TO DEPTH OF DISCHARGE



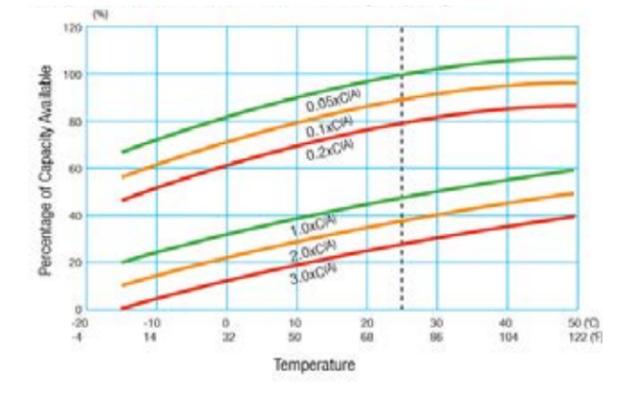
OPEN CIRCUIT VOLTAGE VS REMAINING CAPACITY



SELF DISCHARGE CHARACTERISTICS



TEMPERATURE EFFECTS IN RELATION TO BATTERY CAPACITY



*Excluding inverted use. *On no account should the battery be charged in a sealed container.



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