

REC BATTERIES

REC36-12



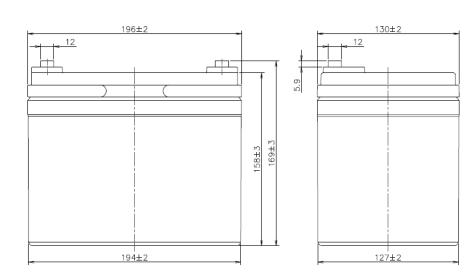
Developed by the world renowned GS Yuasa Corporation, Yuasa REC batteries are a range of sealed maintenance free, VRLA batteries designed to deliver superior cycling performance in high rate discharge applications. Yuasa REC batteries incorporate Yuasa's unique electrolyte retention system, heavy duty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

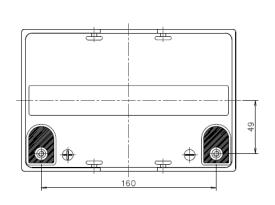
The sealed maintenance free design enables operation in any orientation* without compromising performance or risk of electrolyte leakage, making Yuasa REC batteries ideal for use in a diverse range of applications:

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

Product Specification

Voltage	12V	Weight	Approx. 11.0kg
Capacity	36Ah @ 20hr-rate	Max. Discharge Current	216A^ (5 sec)
Operating Temperature Range	Discharge: -15°C~45°C Charge: -15°C~45°C Storage: -15°C~45°C	Internal Resistance	Approx. 7.5m Ω
Normal Operating Temperature Range	25±2℃	Container Material	A.B.S (UL94HB)
Terminal	M5 Insert Tightening torque 2.0~3.0Nm (20~30kgf · cm)		
Dimensions	Length: 196±2mm Width: 130±2mm	Case Height: 158±3mm Overall Height: 169±3mm	



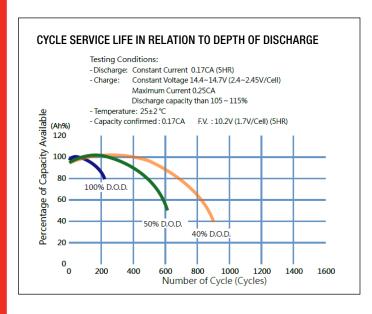


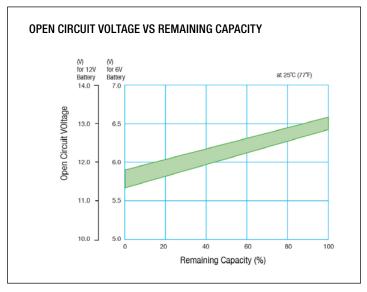
Charging

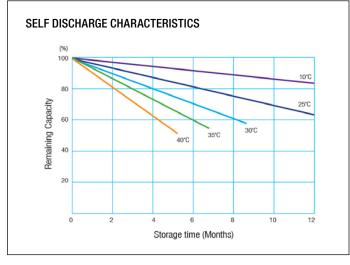
Method	Given Voltage	Maximum Charging Current	Special Conditions				
Float Charging	13.5V~13.8V	9A	As the average ambient temperature rises, charging voltage should be reduced to prevent overcharge.				
Float Charging		9A	Accordingly, the recommended compensation factor is -3mV/°C/cell at 25°C of standard centre point.				
Cyclic Charging	14.4V~15.0V	9A	As the average ambient temperature rises, charging voltage should be reduced to prevent overcharge.				
			Accordingly, the recommended compensation factor is -4mV/°C/cell at 25°C of standard centre point.				
			Caution: This needs to be terminated with appropriate charging period in order to avoid excess over charging that can result in the damage of the batteries.				

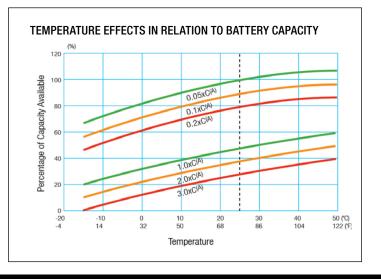
Storage Period without Charge:

Storage Temperature	Max. Storage Period				
Temp. ≦25°C	6 months				
25< Temp. ≦30°C	4 months				
30< Temp. ≦35°C	3 months				
35< Temp. ≦40°C	2 months				









Discharge Capacity

Constant Current Discharge Characteristics: Watts (25°C)

F.V./ TIME	5M	10M	15M	20M	30M	45M	1H	2H	зн	4H	5H	10H	20H
10.8V	1200	860	690	569	428	317	253.4	147.9	105.6	84.5	71.8	38.4	20.7
10.5V	1270	920	714	584	436	320	254.2	148.4	106.0	84.8	72.0	38.6	20.9
10.2V	1350	970	733	596	442	322	254.5	148.9	106.6	85.2	72.4	38.8	21.1
9.6V	1470	1000	746	604	446	324	255.0	150.6	108.2	86.6	73.6	39.5	21.2

Constant Current Discharge Characteristics: Amps (25°C)

F.V./ TIME	5M	10M	15M	20M	30M	45M	1H	2H	ЗН	4H	5H	10H	20H
10.8V	107	76	59	49.2	36.8	27.1	21.5	12.41	8.80	7.04	5.98	3.19	1.78
10.5V	115	82	62	50.8	37.6	27.4	21.6	12.46	8.85	7.08	6.02	3.21	1.80
10.2V	124	88	64	52.1	38.3	27.7	21.6	12.48	8.87	7.09	6.03	3.22	1.81
9.6V	139	91	66	52.9	38.8	27.9	21.7	12.63	9.01	7.21	6.13	3.28	1.81

Installation Conditions

Storage container for rechargeable battery must not be of sealed and air tight construction; the container must be equipped with appropriate ventilation system, such as ventilation holes leading to the outside.

The following applies to using a rechargeable battery inside a metallic storage box: to prevent the rechargeable battery from leaking fluid due to a breakage in the electrolytic cell, thus forming a leak circuit between the battery and the storage box (or fixed frame), install between these two items a heat and acid resistant insulating sheet (or tray) that will not be damaged by periodic stress. Alternatively, place the rechargeable battery inside an insulating bag but ensure it remains unsealed.

For the above described insulation material, do not use any material that can be stained with grease.

Do not allow the rechargeable battery to come into contact with vinyl tape containing plasticizer, insulation sheet, solvent, or grease.

Caution

It is not recommended to use different kinds of batteries / capacities / new and used in series string connections.

It is not recommended to use more than 3 parallel string connections.

Also available in REC22-12, REC50-12 & REC80-12

For more information contact a Yuasa battery specialist:

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