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LEAD – ACID RECHARGEABLE BATTERY

1. **Model: REC 9-12**
2. **Nominal Capacity: 12V 9AH (20HR)**
3. **Mechanical Spec:**

(1) Measurements	Length	:	151±	1mm
	Width	:	65±	1mm
	Case Height	:	112±	1mm
	Overall height	:	115..5±	1mm

(2) Terminal : Faston tab 250

(3) Weight : About 3.6kg

4. **Construction:**

This battery is composed of positive plates, negative plates, separators, container, lid, electrolyte etc, and is equipped with positive and negative polarity terminals.

Any emitted gas from the battery is minimized with the negative plate gas recombinant method, thus requiring no topping up of electrolyte.

5. **External appearance**

Battery shall be without acid leakage, conspicuous stain, scar or deformation.

6. **Performance**

6-1 Temperature of tested battery shall be 20-25°C, if not specified:

6-2 Discharge capacity:

Hourly rate	Discharge current	Final discharge voltage	Capacity
20 HR	450mA	10.50 V	9.00 Ah
10HR	840mA	10.50 V	8.40 Ah
5HR	1530mA	10.20 V	7.65 Ah
1HR	5400mA	9.60 V	5.40 Ah

Battery capacity at time of delivery shall be 75% or more, provided it is tested within 14 days after delivery.

After delivery, the capacity shall exceed 95% of nominal within 3 charge / discharge cycles or 10 days float charge.

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6-3 Open circuit voltage:

12.6V (OCV) or more at $25 \pm 10^\circ\text{C}$.

6-4 Internal resistance:

< 20m Ω .

6-5 Charging

Method	Given Voltage	Maximum Charging Current	Special condition(s)
Float Charge (trickle)	13.65V \pm 0.15V	No limit	When constantly used at sub-zero or over 40°C, temperature compensation of -18mV/°C shall be applied with 20°C as a centre point.
Cyclic Charge	14.4V- 15.0V	2.25 A	When constantly used at below 5°C or over 35°C, temperature compensation of -24mV/°C shall be applied with 20°C as a centre point.

6-6 Permissible temperature range

CONDITIONS	TEMPERATURE RANGE
Discharging	-15°C – 50°C
Charging	0°C – 40°C
Standing	- 15°C – 40°C

6-7 Storage period without use

STORAGE TEMPERATURE	MAX. STORAGE PERIOD
20°C or less	9 months
20 – 30°C	6 months
30 – 40°C	3 months

6-8 Life expectancy (standby) 5 years