

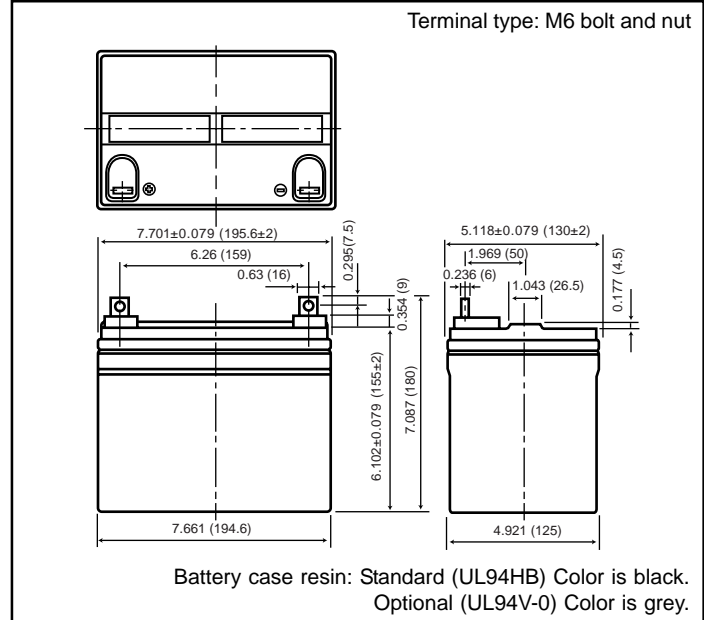
# VALVE-REGULATED LEAD ACID BATTERIES: INDIVIDUAL DATA SHEET

## LC-R1233P



For main and standby power supplies.  
Expected trickle life: 3-5 years at 25°C, Approx. 5 years at 20°C.

### Dimensions (mm)



### Specifications

Nominal Voltage		12V
Rated Capacity (20 hour rate)		33Ah
Dimensions	Length	7.701 inches (195.6 mm)
	Width	5.118 inches (130.0 mm)
	Height	6.102 inches (155.0 mm)
	Total Height	7.087 inches (180.0 mm)
Approx. mass (lbs.)		26.5 (12.0 kg)
Standard Terminals and Resin	UL94HB M6 Bolt and Nut	LC-R1233P
	UL94V-0 M6 Bolt and Nut	◆ LC-V1233P

◆ Please contact Panasonic for availability on optional items. Optional items may be subject to minimum order quantities.

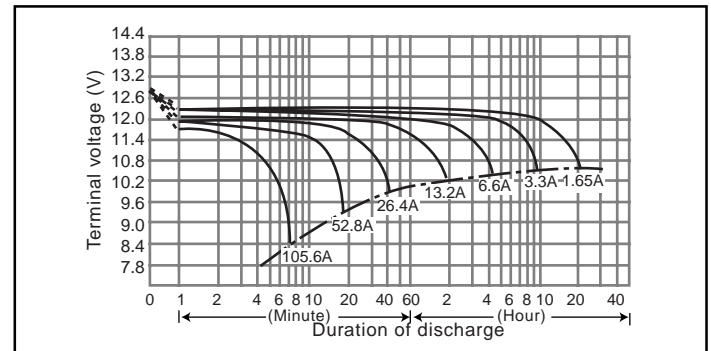
### Characteristics

Capacity (note) 77°F (25°C)	20 hour rate (1.65A)	33Ah	
	10 hour rate (3A)	30Ah	
Internal Resistance	5 hour rate (5.4A)	27Ah	
	1 hour rate (20A)	20Ah	
Temperature dependency of capacity (20 hour rate)	1.5 hour rate discharge	13.4A	
	Cut-off voltage 10.5 V		
	Fully charged battery 77°F (25°C)	Approx. 7mΩ	
Self discharge 77°F (25°C)	104°F (40°C)	102%	
	77°F (25°C)	100%	
	32°F (0°C)	85%	
Charge Method (Constant Voltage)	5°F (-15°C)	65%	
	Cycle use (Repeating use)	Residual capacity after standing 3 months	91%
		Residual capacity after standing 6 months	82%
Trickle use	Residual capacity after standing 12 months	64%	
	Initial current	13.2 A or smaller	
Control voltage		14.5V to 14.9V (per 12V cell 25°C)	
	Initial current	4.95 A or smaller	
Control voltage		13.6V to 13.8V (per 12V cell 25°C)	

(Note) The above characteristics data are average values obtained within three charge/discharge. Cycles not the minimum values.

(Note) For cycle use of the battery, please consult us in advance.

### Discharge characteristics 77°F (25°C) (Note)



### Duration of discharge vs. Discharge current (Note)

