

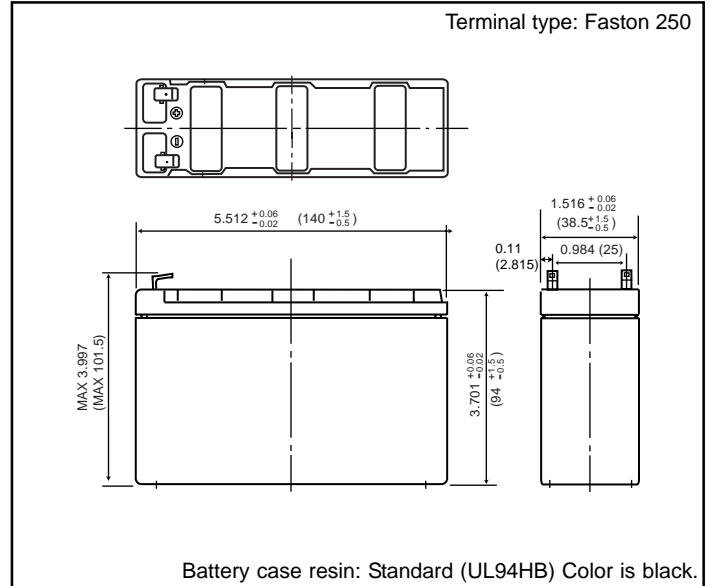
# VALVE-REGULATED LEAD ACID BATTERIES: INDIVIDUAL DATA SHEET

## UP-RW1220P1



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

### Dimensions (mm)



### Specifications

Nominal Voltage		12V
Nominal Capacity (watts/cell at 10 minute rate)		20W/2V
Dimensions	Length	5.512 inches (140.0 mm)
	Width	1.516 inches (38.5 mm)
	Height	3.701 inches (94.0 mm)
	Total Height	3.997 inches (101.5 mm)
Approx. mass		2.98 lbs. (1.35 kg)
Standard Terminals and Resin	UL94HB Faston 250	UP-RW1220P1

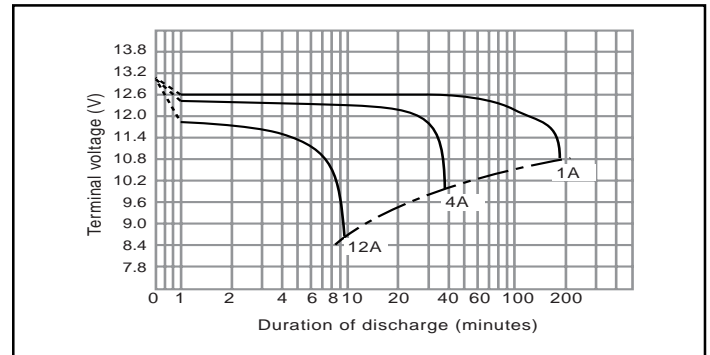
### Characteristics

Capacity (note) 77°F (25°C) (9.6V Cutoff)	30 minute rate 15 minute rate 10 minute rate 5 minute rate	60W 95W 120W 190W	
Internal resistance	Fully charged battery 77°F (25°C)	Approx. 35mΩ	
Temperature dependency of capacity (20 hour rate)	104°F (40°C) 77°F (25°C) 32°F (0°C) 5°F (-15°C)	102% 100% 85% 65%	
Self discharge 77°F (25°C)	Residual capacity after standing 3 months Residual capacity after standing 6 months Residual capacity after standing 12 months	91% 82% 64%	
Charge Method (Constant Voltage)	Trickle use	Initial current	1.35 A or smaller
		Control voltage	13.6V to 13.8V (per 12V cell 25°C)

Cutoff	Discharge Runtime at 25°C						
	3 min.	5 min.	7 min.	10 min.	15 min.	20 min.	30 min.
9.6V	237	180	150	120	91	75	57
10.2V	217	167	135	113	87	73	52
10.8V	177	137	115	102	82	66	47

(Note) The above characteristics data are average values obtained within three charge/discharge. Cycles not the minimum values.  
(Note) This battery is designed for high rate discharge and we do not specify 20 hour rate discharge capacity.  
(Note) When specific conditions are satisfied, this battery can be used for main power supplies. Please consult Panasonic.

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



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

