

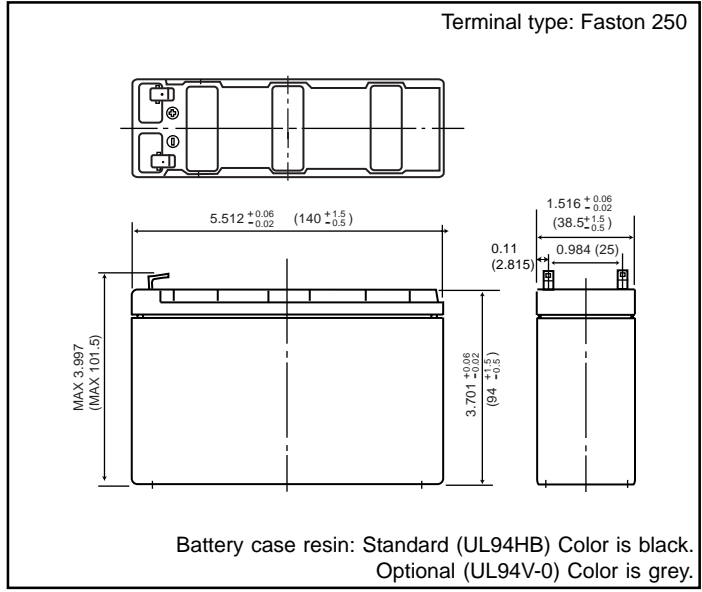
# VALVE-REGULATED LEAD ACID BATTERIES: INDIVIDUAL DATA SHEET

## UP-RW1220P1



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

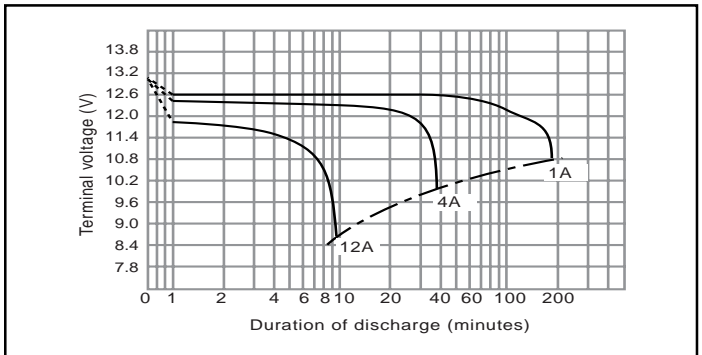
### Dimensions (mm)



### Specifications

<b>Nominal Voltage</b>		12V
<b>Nominal Capacity (watts/cell at 10 minute rate)</b>		20W/2V
<b>Dimensions</b>	<b>Length</b>	5.512 inches (140.0 mm)
	<b>Width</b>	1.516 inches (38.5 mm)
	<b>Height</b>	3.701 inches (94.0 mm)
	<b>Total Height</b>	3.997 inches (101.5 mm)
<b>Approx. mass</b>		2.98 lbs. (1.35 kg)
<b>Standard Terminals and Resin</b>	UL94HB Faston 250	UP-RW1220P1
	UL94V-0 Faston 250	UP-VW1220P1

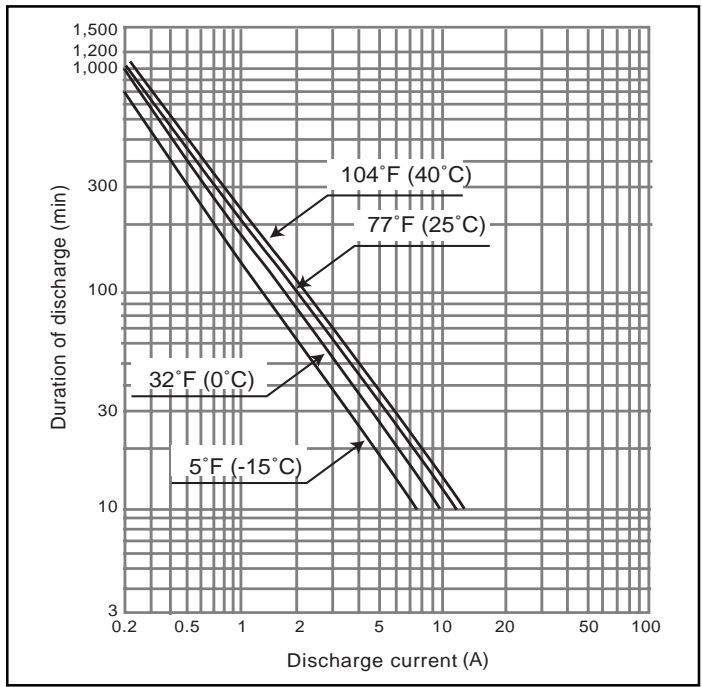
### Discharge characteristics 77°F (25°C) (Note)



### Characteristics

Capacity (note) 77°F (25°C) (9.6V Cutoff)	30 minute rate	60W	
	15 minute rate	95W	
	10 minute rate	120W	
	5 minute rate	190W	
Internal resistance	Fully charged battery 77°F (25°C)	Approx. 35mΩ	
Temperature dependency of capacity (20 hour rate)	104°F (40°C)	102%	
	77°F (25°C)	100%	
	32°F (0°C)	85%	
Self discharge 77°F (25°C)	Residual capacity after standing 3 months	91%	
	Residual capacity after standing 6 months	82%	
	Residual capacity after standing 12 months	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)

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



Cutoff (per cell)	Discharge Runtime at 25°C						
	3 min.	5 min.	7 min.	10 min.	15 min.	20 min.	30 min.
1.6V	245	190	150	120	95	80	60
1.7V	217	167	135	113	87	74	52
1.8V	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.