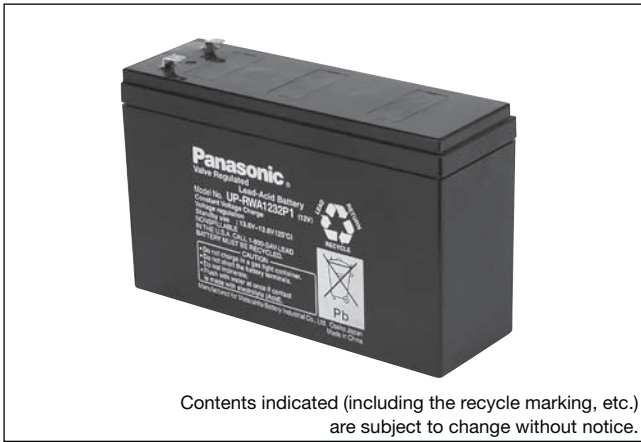
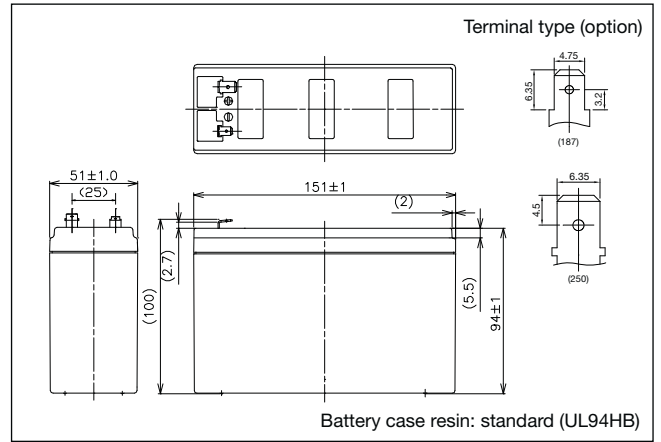


UP-RWA1232P1/P2*1

For standby power supplies.
Expected trickle design life: 6 – 9 years at 20°C according to Eurobat.



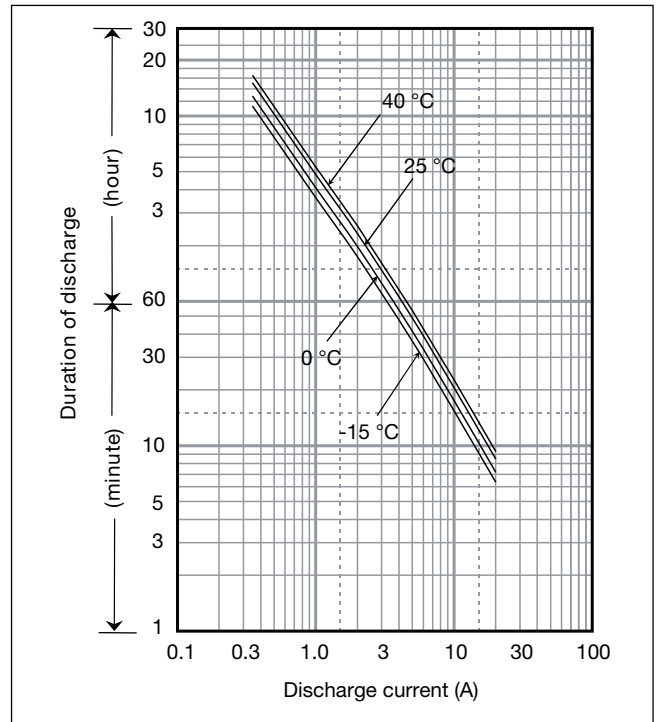
Dimensions (mm)



Specifications

Nominal voltage	12V	
Nominal capacity (10 minute rate)	192W	
Dimensions	Length	151mm
	Width	51mm
	Height	94mm
	Total Height	100mm
Approx. mass	2kg	
Terminal	Faston 250 with hole or Faston 187/250 mixed	

Duration of discharge vs Discharge current



Characteristics

Capacity (25°C)	20 hour rate	97W
	10 hour rate	157W
	5 hour rate	192W
	1 hour rate	310W
Internal resistance	Fully charged battery (25°C)	33mΩ
Temperature dependency of capacity (20 hour rate)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self discharge (25°C)	After 3 months	91%
	After 6 months	82%
	After 12 months	64%

Watt Table

(Wattage/Battery)

Cut-off V	3min	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h	20h	24h
9.6V	410	310	192	157	128	97.0	71.1	56.9	39.1	30.3	22.5	17.3	14.3	11.5	7.61	4.12	3.44
9.9V	386	295	187	150	124	95.0	70.7	56.9	38.3	30.0	22.4	17.2	14.2	11.4	7.58	4.11	3.43
10.2V	361	281	182	142	120	93.0	67.7	53.9	36.3	28.4	21.5	16.5	13.6	11.0	7.25	3.97	3.31
10.5V	327	255	174	136	115	89.5	65.9	52.8	34.9	27.5	21.5	16.5	13.5	10.9	7.22	3.96	3.30
10.8V	294	230	164	130	110	86.0	61.7	48.8	32.6	24.5	19.5	15.2	12.4	10.0	6.73	3.70	3.08

Ampere Table

(Ampere/Battery)

Cut-off V	3min	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	10h	20h	24h
9.6V	36.9	27.8	17.1	13.7	11.0	8.29	6.06	4.83	3.31	2.56	1.89	1.45	1.19	0.96	0.634	0.344	0.287
9.9V	34.7	26.5	16.7	13.0	10.7	8.12	6.02	4.83	3.25	2.54	1.88	1.44	1.18	0.95	0.631	0.343	0.286
10.2V	32.5	25.2	16.3	12.3	10.3	7.95	5.77	4.58	3.08	2.40	1.80	1.38	1.14	0.92	0.604	0.331	0.276
10.5V	29.5	22.9	15.5	11.8	9.9	7.65	5.61	4.48	2.96	2.32	1.81	1.38	1.13	0.91	0.602	0.330	0.275
10.8V	26.4	20.6	14.6	11.3	9.5	7.35	5.26	4.14	2.76	2.07	1.64	1.28	1.03	0.84	0.560	0.309	0.257

*1 This battery is also available with a flame retardant battery case resin (UL94 V-0).

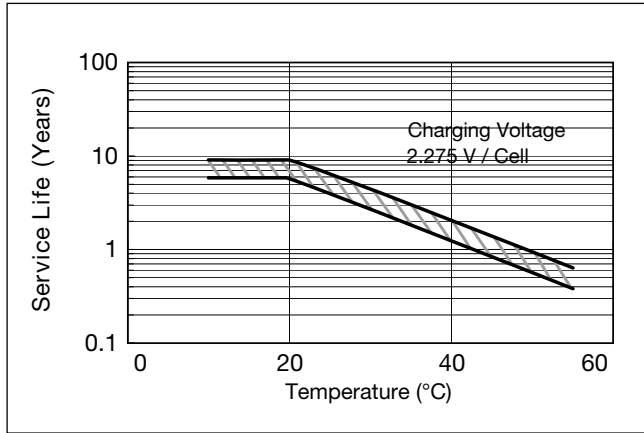
Charging Method

Trickle use	Control voltage: 13.6 - 13.8V; Initial current: 1.05A or smaller
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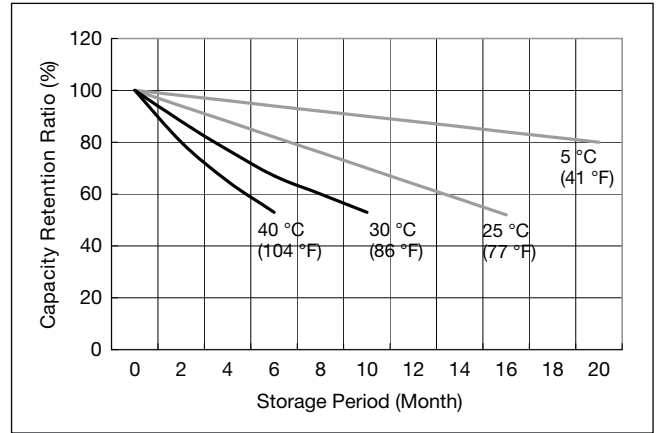
Cut off voltage

Discharge current	0.35A - 1.4A	1.4A - 3.5A	3.5A - 7A	7A - 14A	14A - 21A
Cut off voltage (V)	10.5	10.2	9.9	9.3	8.7

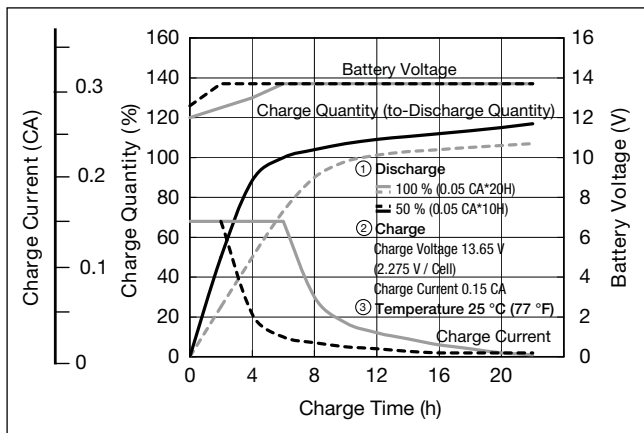
Influence of Temperature on Trickle life



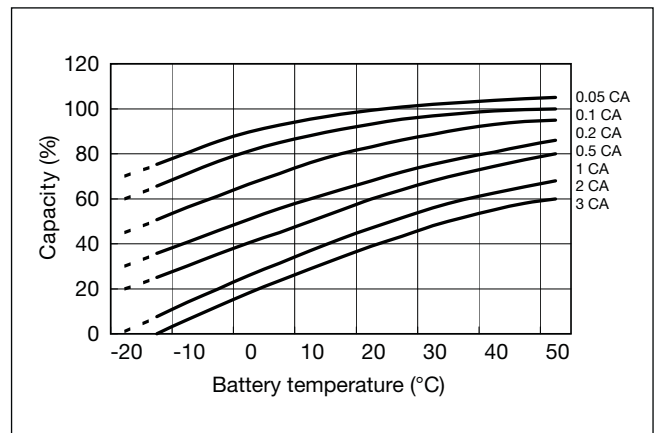
Residual capacity vs storage period



Constant-voltage and constant-current charge characteristics for Trickle use



Discharge capacity by temperature and by discharge current



Discharge characteristics

