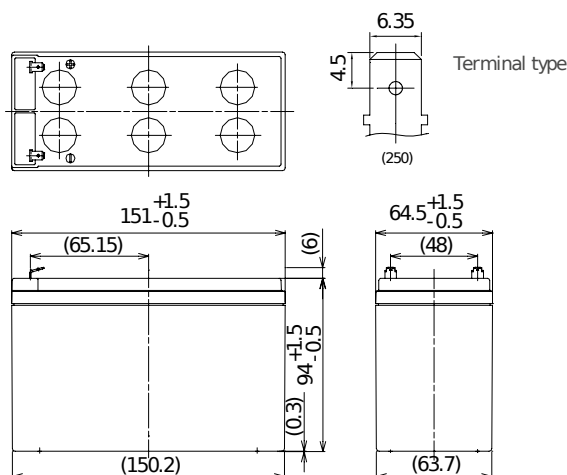


## UP-VW1245P

### DIMENSIONS (MM)



FOR STANDBY POWER SUPPLIES.  
 EXPECTED TRICKLE DESIGN LIFE: 6 - 9 YEARS AT 20°C  
 ACCORDING TO EUROBAT.



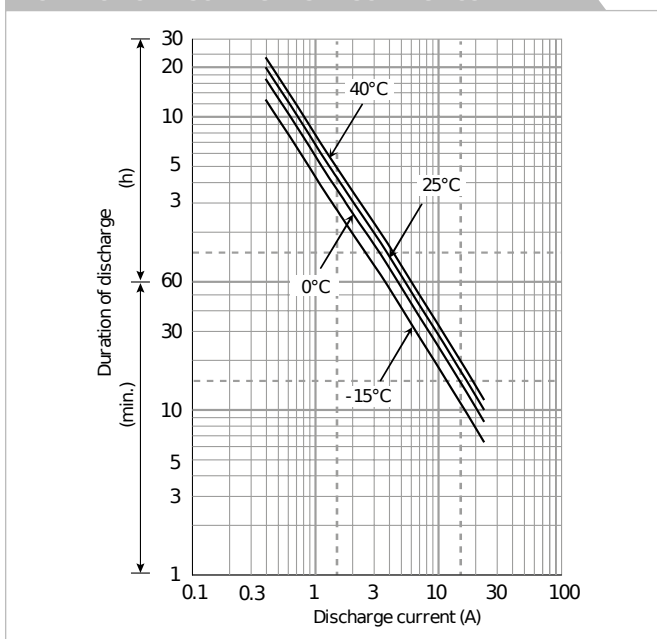
Contents indicated (including the recycle marking, etc.) are subject to change without notice.

Battery case resin: flame retardant (UL94 V-0)

### SPECIFICATIONS

Name		UP-VW1245P 1
Nominal voltage		12V
Rated power (cell@10MR)		45W
Dimensions	Length	151mm
	Width	64.5mm
	Height	100mm
Approx. mass		2.55kg
Terminal		Faston 250
Capacity (25°C)	30 minute rate	112W
	15 minute rate	195W
	10 minute rate	270W
	5 minute rate	410W
Impedance		Fully charged battery (25°C) 20mΩ
Temperature dependency of capacity (20 hour rate)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Remaining capacity (25°C)	After 3 month	91%
	After 6 month	82%
	After 12 month	64%

### DURATION OF DISCHARGE VS. DISCHARGE CURRENT



### WATT TABLE (25°C)

	(Wattage/battery)															
9.6V	530	410	270	195	159	112	82.1	65.7	45.2	34.9	26.0	20.0	16.5	13.3	8.79	4.76
9.9V	509	400	263	194	158	111	81.6	65.1	44.3	34.7	25.9	19.8	16.4	13.2	8.75	4.75
10.2V	490	390	258	193	156	110	80.8	64.4	43.4	33.9	25.6	19.7	16.2	13.1	8.65	4.73
10.5V	463	360	246	187	151	109	78.7	63.0	41.7	32.8	25.2	19.5	16.1	13.0	8.62	4.72
10.8V	434	330	234	180	146	108	78.3	61.8	41.3	31.1	24.7	19.3	15.7	12.7	8.52	4.69

### AMPERE TABLE (25°C)

	(Ampere/battery)															
9.6V	47.7	36.8	23.9	17.0	13.7	9.57	6.99	5.57	3.82	2.95	2.19	1.67	1.38	1.11	0.732	0.397
9.9V	45.8	35.9	23.5	16.9	13.6	9.55	6.95	5.50	3.75	2.93	2.17	1.66	1.37	1.10	0.729	0.396
10.2V	44.1	35.0	23.0	16.8	13.5	9.49	6.88	5.46	3.67	2.86	2.15	1.65	1.36	1.09	0.721	0.394
10.5V	41.6	32.3	22.0	16.3	13.0	9.40	6.70	5.35	3.53	2.77	2.11	1.64	1.35	1.08	0.718	0.393
10.8V	39.0	29.6	20.9	15.7	12.6	9.32	6.67	5.25	3.50	2.62	2.08	1.62	1.31	1.06	0.710	0.391

All mentioned values are average values

## UP-VW1245P

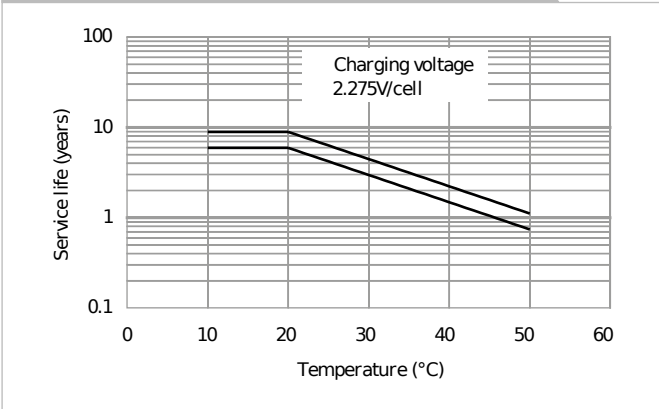
### CHARGING METHOD (25°C)

**Trickle use** Control voltage: 13.6V - 13.8V  
Initial current: 1.20A or smaller

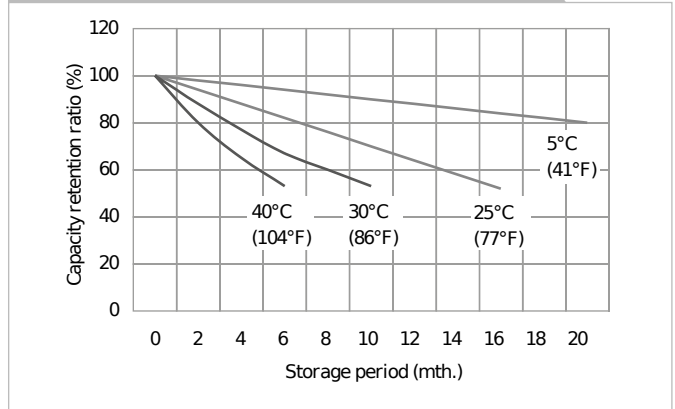
### CUT-OFF VOLTAGE

<b>Discharge current</b>	0.400A - 1.60A	1.60A - 4.00A	4.00A - 8.00A	8.00A - 16.0A	16.0A - 24.0A
<b>Cut-off voltage</b>	10.5V	10.2V	9.9V	9.3V	8.7V

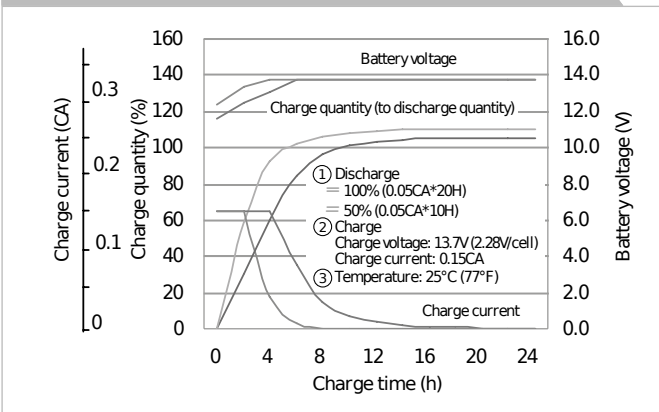
### INFLUENCE OF TEMPERATURE ON TRICKLE LIFE



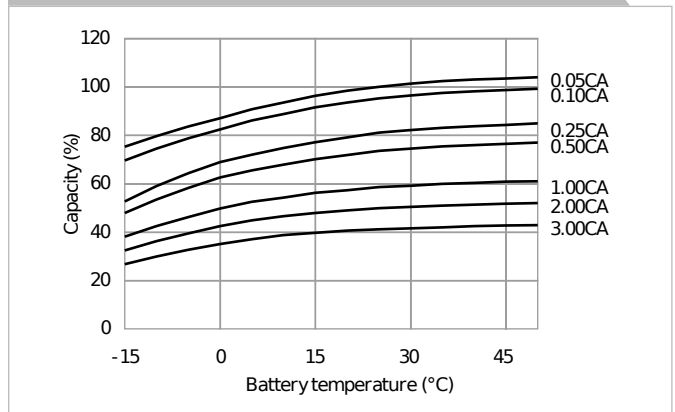
### RESIDUAL CAPACITY TEST RESULT



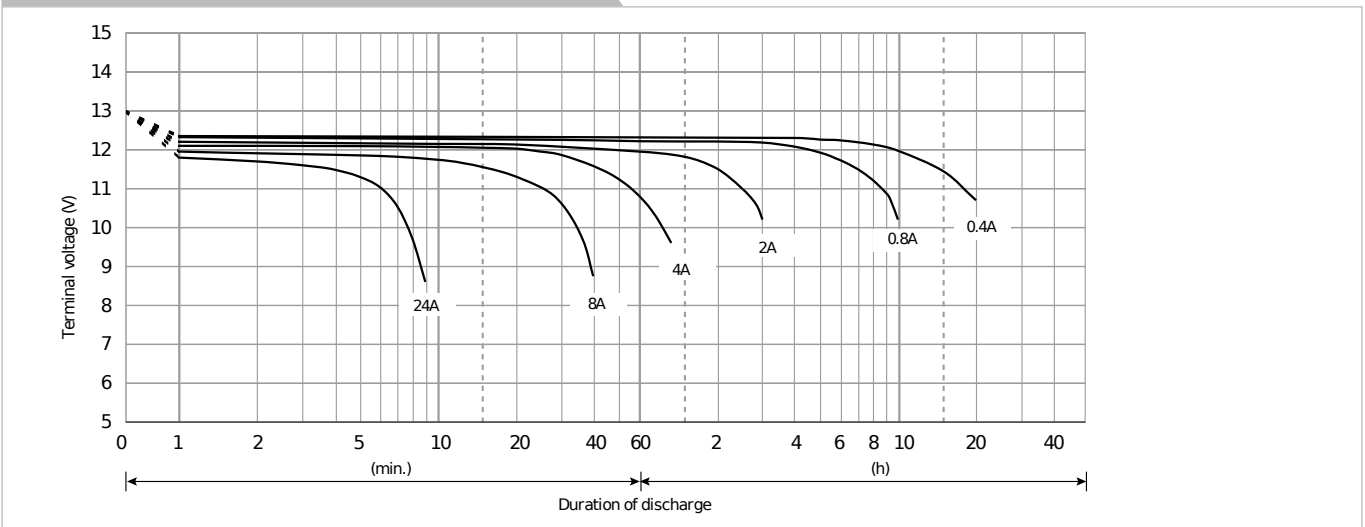
### CONSTANT-VOLTAGE CONSTANT-CURRENT CHARGE CHARACTERISTICS FOR TRICKLE USE



### DISCHARGE CAPACITY BY TEMPERATURE AND BY DISCHARGE CURRENT



### DISCHARGE CHARACTERISTICS



The data in this document are for descriptive purposes only and are not intended to make or imply any guarantee or warranty. Regarding handling and safety please consult our VRLA technical handbook chapter 1.