

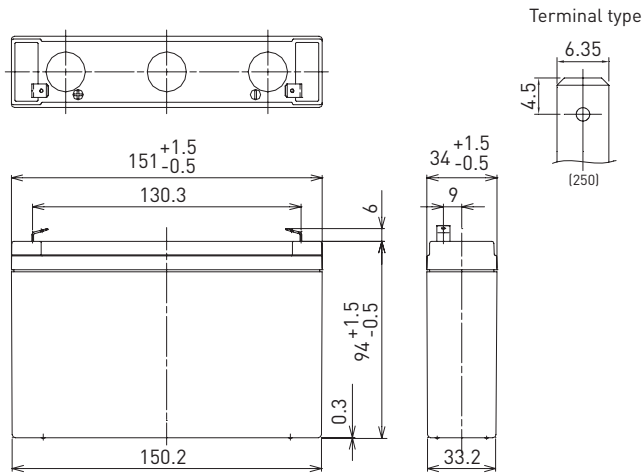
UP-VW0645P

DIMENSIONS (MM)



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

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

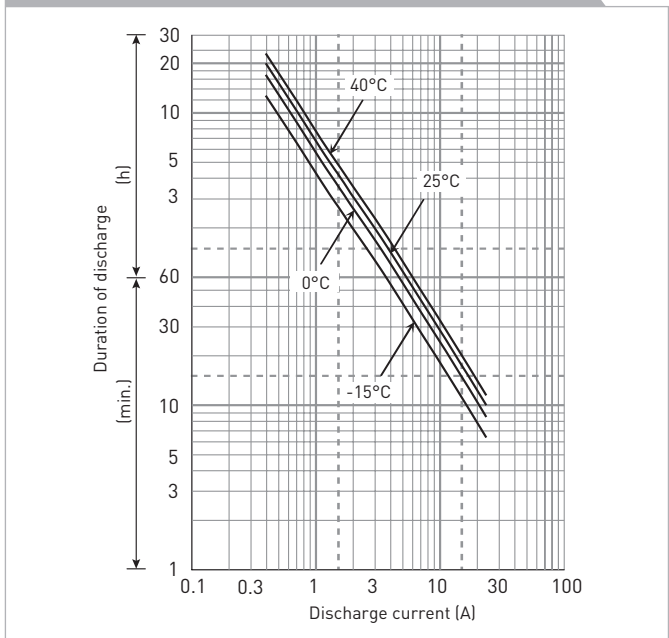


Battery case resin: flame retardant (UL94 V-0)

SPECIFICATIONS

Name	UP-VW0645P1	
Nominal voltage	6V	
Rated power (cell@10MR)	45W	
Dimensions	Length	151mm
	Width	34mm
	Height	100mm
Approx. mass	1.30kg	
Terminal	Faston 250	
Capacity (25°C)	30 minute rate	56W
	15 minute rate	98W
	10 minute rate	135W
	5 minute rate	205W
Impedance	Fully charged battery (25°C)	10mΩ
	40°C	102%
Temperature dependency of capacity (20 hour rate)	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	After 3 month	91%
	After 6 month	82%
	After 12 month	64%

DURATION OF DISCHARGE VS. DISCHARGE CURRENT



WATT TABLE (25°C)

Cut-off	3min.	5min.	10min.	15min.	20min.	30min.	45min.	1h	1.5h	2h	3h	4h	5h	6h	10h	20h
4.80V	265	205	135	97.5	79.5	56.0	41.1	32.8	22.6	17.5	13.0	9.99	8.25	6.63	4.39	2.38
4.95V	254	200	131	97.2	78.9	55.9	40.8	32.5	22.1	17.3	12.9	9.92	8.18	6.60	4.37	2.37
5.10V	245	195	129	96.5	78.0	55.5	40.4	32.2	21.7	16.9	12.8	9.86	8.12	6.55	4.33	2.37
5.25V	231	180	123	93.4	75.4	55.0	39.3	31.5	20.8	16.4	12.6	9.85	8.07	6.48	4.31	2.36
5.40V	217	165	117	90.0	73.0	54.5	39.1	30.9	20.6	15.5	12.4	9.66	7.85	6.37	4.26	2.35

AMPERE TABLE (25°C)

Cut-off	3min.	5min.	10min.	15min.	20min.	30min.	45min.	1h	1.5h	2h	3h	4h	5h	6h	10h	20h
4.80V	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
4.95V	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
5.10V	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
5.25V	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
5.40V	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-VW0645P

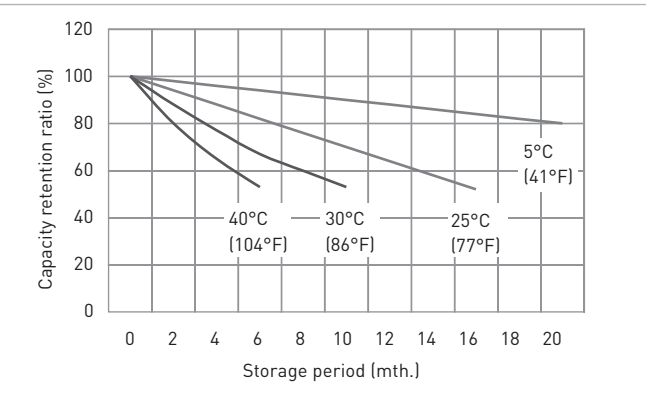
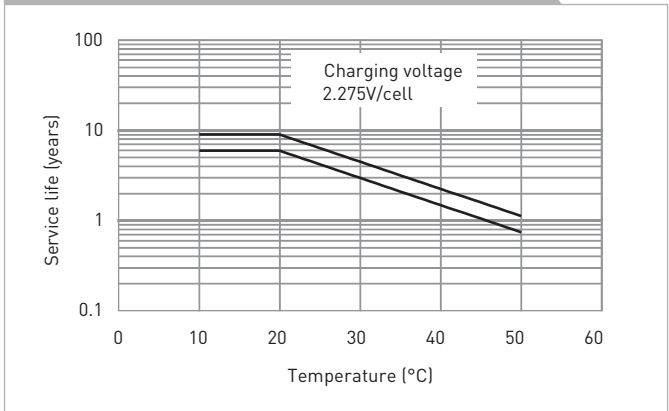
CHARGING METHOD (25°C)

Trickle use	Control voltage: 6.80V - 6.90V Initial current: 1.20A or smaller
-------------	---

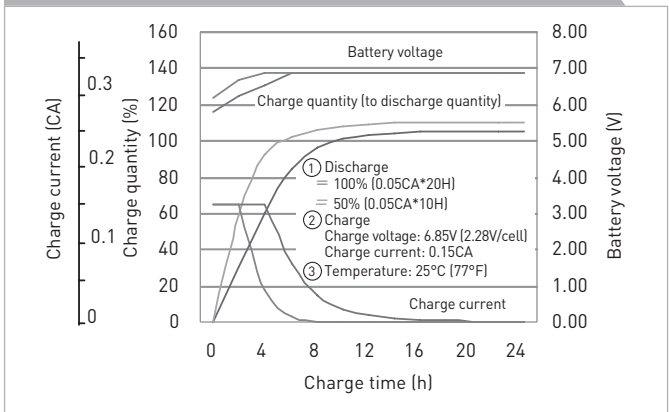
CUT-OFF VOLTAGE

Discharge current	0.400A - 1.60A	1.60A - 4.00A	4.00A - 8.00A	8.00A - 16.0A	16.0A - 24.0A
Cut-off voltage	5.25V	5.10V	4.95V	4.65V	4.35V

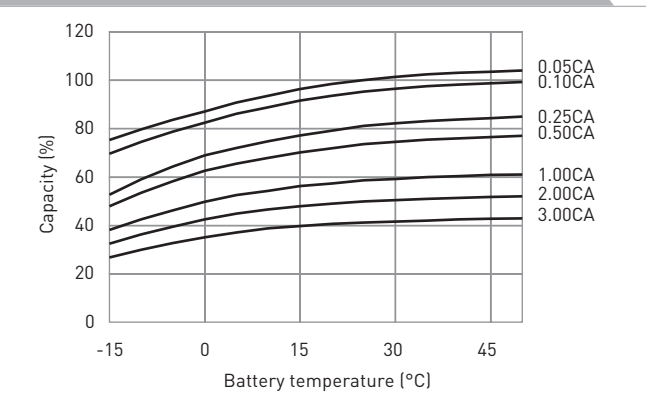
INFLUENCE OF TEMPERATURE ON TRICKLE LIFE



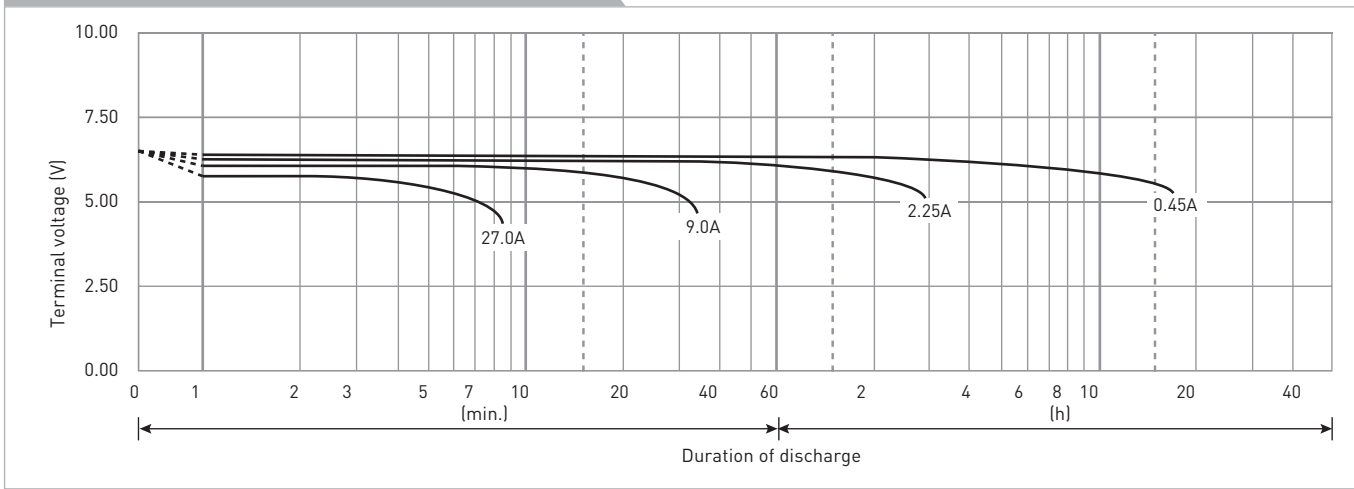
CONSTANT-VOLTAGE CONSTANT-CURRENT CHARGE CHARACTERISTICS FOR TRICKLE USE



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.

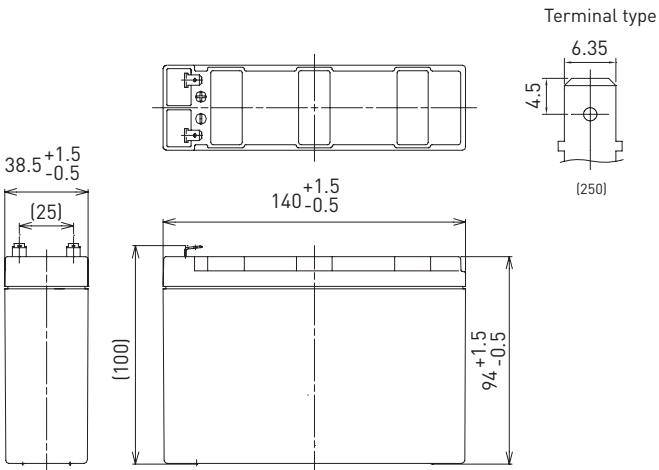
UP-VW1220P

DIMENSIONS (MM)



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

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

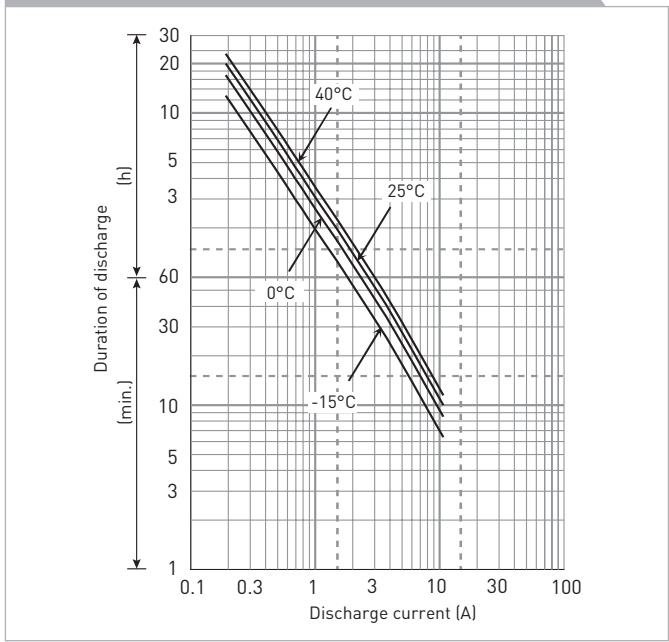


Battery case resin: flame retardant (UL94 V-0)

SPECIFICATIONS

Name		UP-VW1220P1
Nominal voltage		12V
Rated power (cell@10MR)		20W
Dimensions	Length	140mm
	Width	38.5mm
	Height	100mm
Approx. mass		1.30kg
Terminal		Faston 250
Capacity (25°C)	30 minute rate	57W
	15 minute rate	91W
	10 minute rate	120W
	5 minute rate	180W
Impedance	Fully charged battery (25°C)	40mΩ
	40°C	102%
Temperature dependency of capacity (20 hour rate)	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	After 3 month	91%
	After 6 month	82%
	After 12 month	64%

DURATION OF DISCHARGE VS. DISCHARGE CURRENT



WATT TABLE (25°C)

Cut-off	3min.	5min.	10min.	15min.	20min.	30min.	45min.	1h	1.5h	2h	3h	4h	5h	6h	10h	20h
9.6V	237	180	120	91.0	75.0	57.0	41.8	33.4	23.0	17.8	13.2	10.2	8.39	6.75	4.47	2.42
9.9V	227	173	116	89.1	74.0	54.5	39.3	31.6	21.3	16.7	12.5	9.56	7.88	6.36	4.21	2.29
10.2V	217	167	113	87.0	73.0	52.0	37.9	30.2	20.3	15.9	12.0	9.24	7.60	6.14	4.05	2.22
10.5V	197	152	108	84.5	69.5	49.5	35.4	28.3	18.7	14.8	11.6	8.86	7.26	5.83	3.88	2.12
10.8V	177	137	102	82.0	66.0	47.0	33.7	26.6	17.8	13.4	10.7	8.33	6.77	5.49	3.68	2.02

AMPERE TABLE (25°C)

Cut-off	3min.	5min.	10min.	15min.	20min.	30min.	45min.	1h	1.5h	2h	3h	4h	5h	6h	10h	20h
9.6V	21.3	16.1	10.7	7.91	6.47	4.87	3.56	2.84	1.95	1.50	1.11	0.851	0.701	0.563	0.373	0.231
9.9V	20.4	15.6	10.4	7.75	6.38	4.62	3.35	2.68	1.80	1.41	1.05	0.800	0.658	0.530	0.351	0.217
10.2V	19.5	15.0	10.1	7.57	6.29	4.44	3.23	2.56	1.72	1.34	1.01	0.773	0.635	0.512	0.338	0.211
10.5V	17.7	13.7	9.60	7.35	5.99	4.23	3.02	2.41	1.59	1.25	0.971	0.742	0.606	0.487	0.323	0.202
10.8V	15.9	12.3	9.11	7.13	5.69	4.02	2.87	2.26	1.51	1.13	0.895	0.697	0.565	0.458	0.306	0.193

All mentioned values are average values

UP-VW1220P

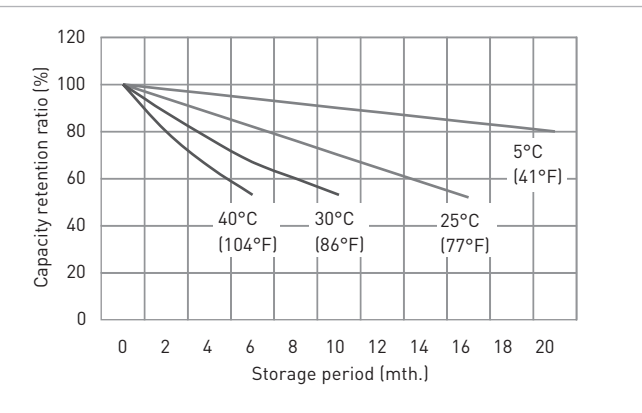
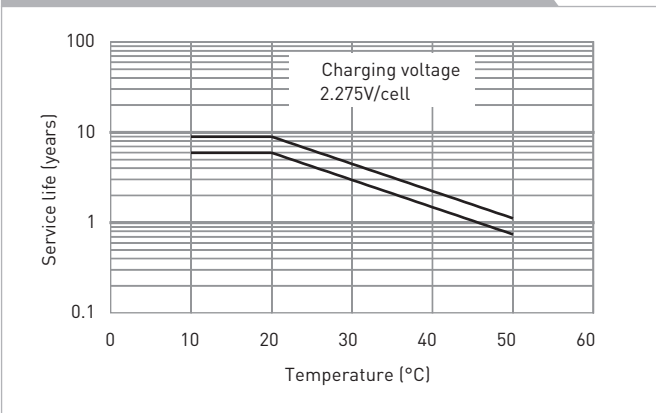
CHARGING METHOD (25°C)

Trickle use	Control voltage: 13.6V - 13.8V
	Initial current: 0.600A or smaller

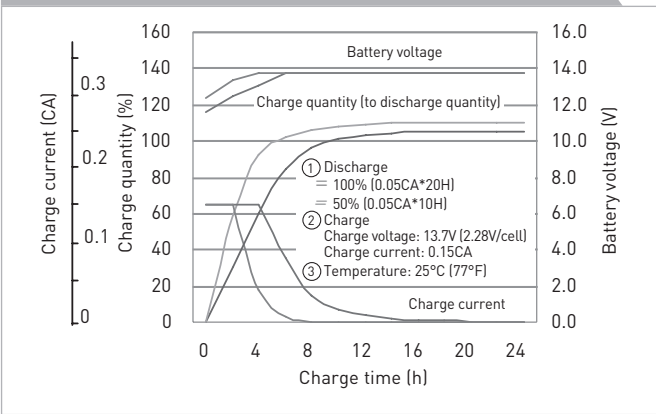
CUT-OFF VOLTAGE

Discharge current	0.200A - 0.800A	0.800A - 2.00A	2.00A - 4.00A	4.00A - 8.00A	8.00A - 12.0A
Cut-off voltage	10.5V	10.2V	9.9V	9.3V	8.7V

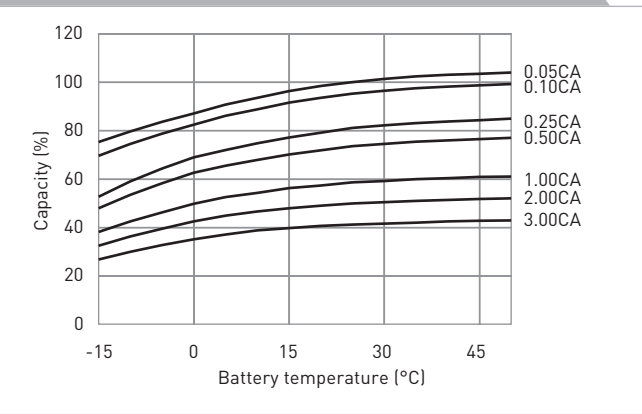
INFLUENCE OF TEMPERATURE ON TRICKLE LIFE



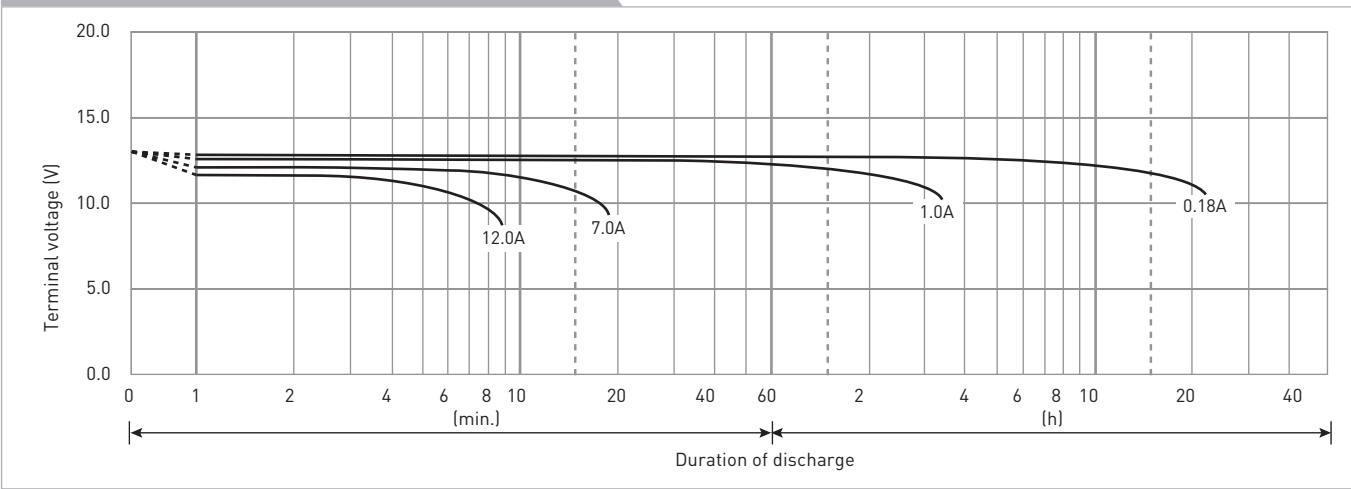
CONSTANT-VOLTAGE CONSTANT-CURRENT CHARGE CHARACTERISTICS FOR TRICKLE USE



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.

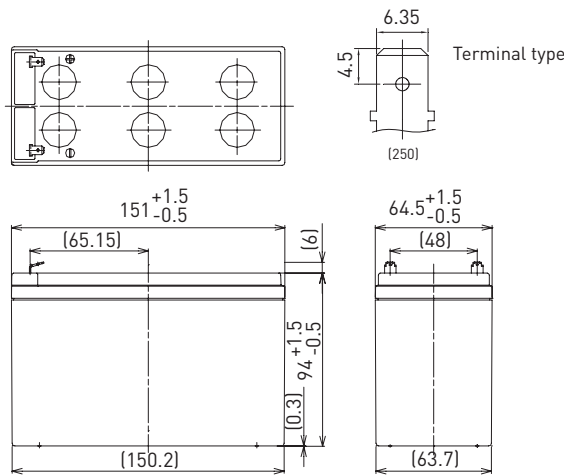
UP-VW1228P

DIMENSIONS (MM)



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

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

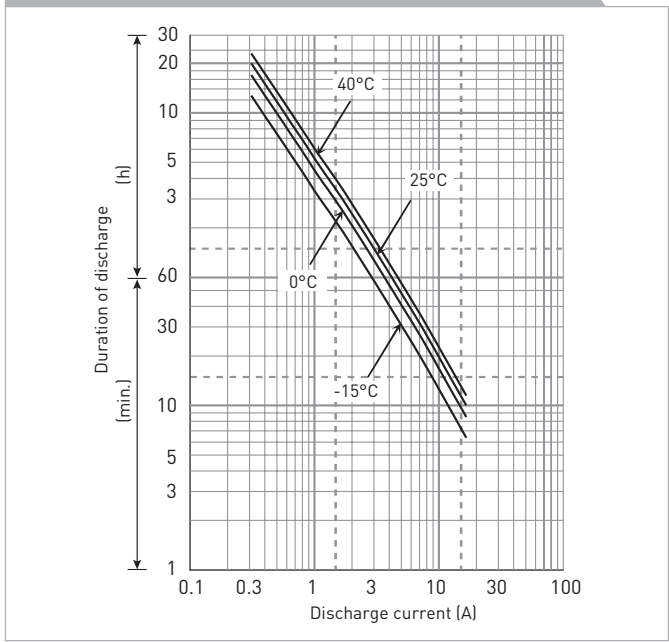


Battery case resin: flame retardant (UL94 V-0)

SPECIFICATIONS

Name	UP-VW1228P1	
Nominal voltage	12V	
Rated power (cell@10MR)	28W	
Dimensions	Length	151mm
	Width	64.5mm
	Height	100mm
Approx. mass	1.85kg	
Terminal	Faston 250	
Capacity (25°C)	30 minute rate	80W
	15 minute rate	151W
	10 minute rate	200W
	5 minute rate	320W
Impedance	Fully charged battery (25°C)	23mΩ
	40°C	102%
Temperature dependency of capacity (20 hour rate)	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	After 3 month	91%
	After 6 month	82%
	After 12 month	64%

DURATION OF DISCHARGE VS. DISCHARGE CURRENT



WATT TABLE (25°C)

Cut-off	(Wattage/battery)															
	3min.	5min.	10min.	15min.	20min.	30min.	45min.	1h	1.5h	2h	3h	4h	5h	6h	10h	20h
9.6V	415	320	200	151	113	80.4	60.0	50.4	37.2	28.8	20.1	15.2	12.5	10.3	6.26	3.01
9.9V	391	274	170	144	109	78.7	59.6	49.2	36.4	28.6	20.0	15.1	12.4	10.1	6.23	3.00
10.2V	365	261	165	137	106	77.0	57.1	47.8	34.5	27.0	19.2	14.8	11.9	9.85	5.97	2.90
10.5V	331	237	158	131	101	74.1	55.6	46.8	33.2	26.2	18.8	14.5	11.8	9.75	5.94	2.89
10.8V	298	213	149	125	96.9	71.2	52.1	43.2	31.0	23.3	17.4	13.4	10.8	9.02	5.53	2.71

AMPERE TABLE (25°C)

Cut-off	(Ampere/battery)															
	3min.	5min.	10min.	15min.	20min.	30min.	45min.	1h	1.5h	2h	3h	4h	5h	6h	10h	20h
9.6V	35.6	26.9	16.6	13.2	10.7	8.01	5.86	4.67	3.20	2.47	1.83	1.40	1.15	0.926	0.613	0.332
9.9V	33.5	25.6	16.1	12.6	10.3	7.85	5.82	4.55	3.14	2.45	1.82	1.39	1.14	0.922	0.610	0.331
10.2V	31.4	24.4	15.7	11.9	10.0	7.68	5.58	4.43	2.97	2.32	1.74	1.34	1.10	0.885	0.584	0.320
10.5V	28.5	22.1	15.0	11.4	9.57	7.40	5.43	4.33	2.86	2.24	1.68	1.29	1.05	0.876	0.581	0.310
10.8V	25.6	19.9	14.2	10.9	9.17	7.11	5.08	4.00	2.67	2.00	1.58	1.23	1.00	0.810	0.542	0.298

All mentioned values are average values

UP-VW1228P

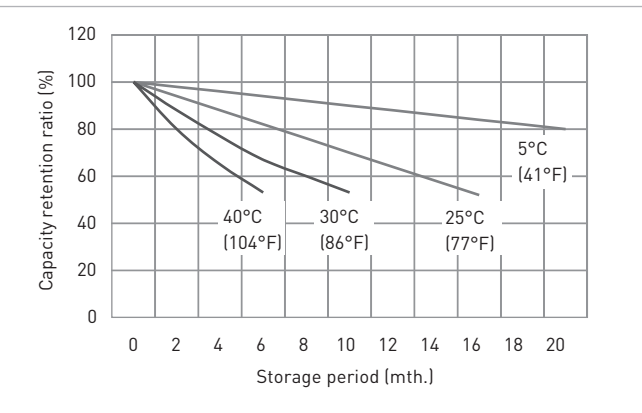
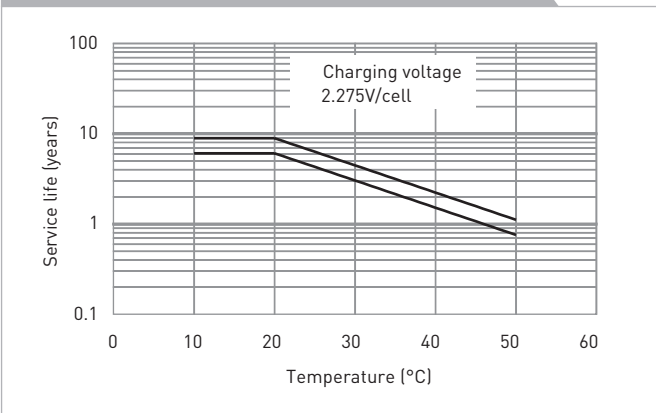
CHARGING METHOD (25°C)

Trickle use	Control voltage: 13.6V - 13.8V Initial current: 0.870A or smaller
-------------	--

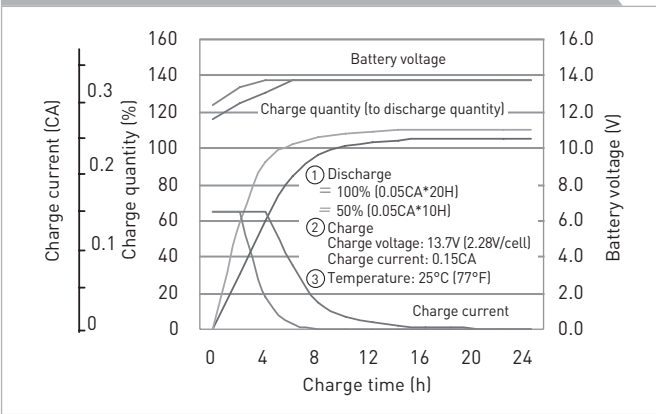
CUT-OFF VOLTAGE

Discharge current	0.290A - 1.16A	1.16A - 2.90A	2.90A - 5.80A	5.80A - 11.6A	11.6A - 17.4A
Cut-off voltage	10.5V	10.2V	9.9V	9.3V	8.7V

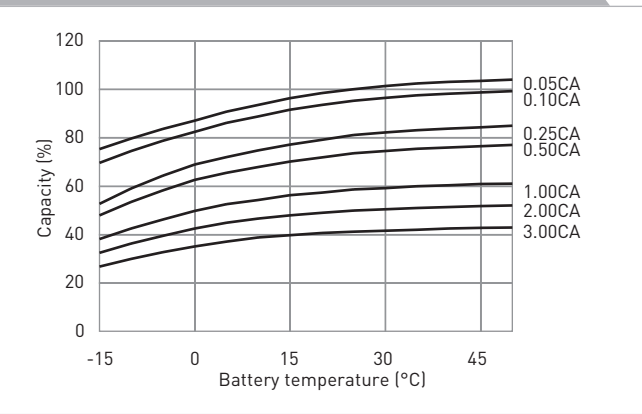
INFLUENCE OF TEMPERATURE ON TRICKLE LIFE



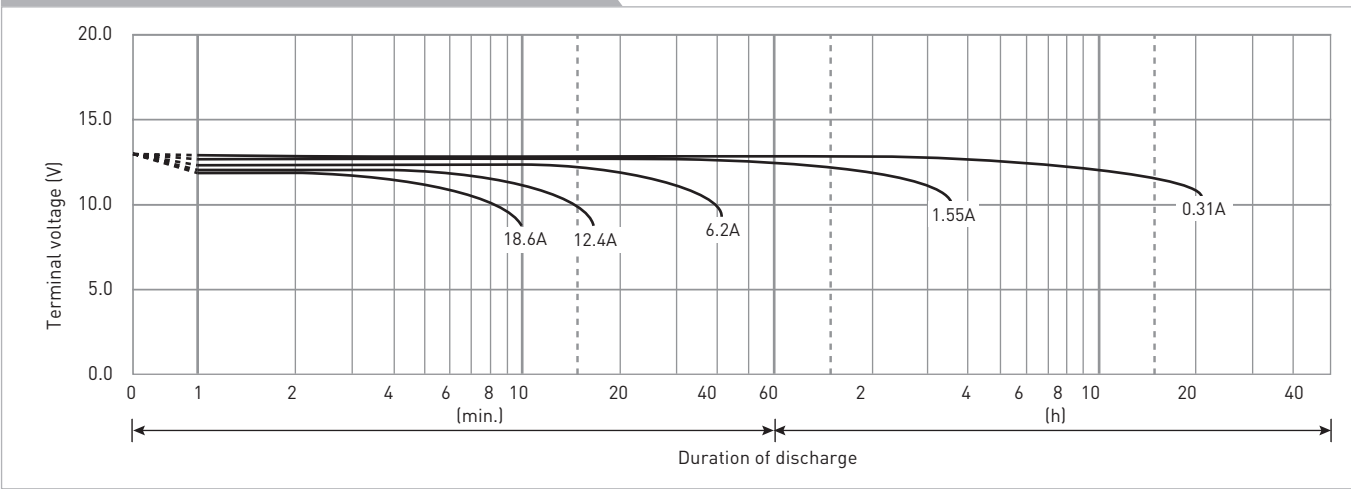
CONSTANT-VOLTAGE CONSTANT-CURRENT CHARGE CHARACTERISTICS FOR TRICKLE USE



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.

UP-VWA1232P

DIMENSIONS (MM)



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

SPECIFICATIONS

Name		UP-VWA1232P1/P2
Nominal voltage		12V
Rated power (cell@10MR)		32W
Dimensions	Length	151mm
	Width	51mm
	Height	100mm
Approx. mass		2.00kg
Terminal		Faston 250 & 187/250
Capacity (25°C)	30 minute rate	97W
	15 minute rate	165W
	10 minute rate	210W
	5 minute rate	339W
Impedance	Fully charged battery (25°C)	25mΩ
	40°C	102%
Temperature dependency of capacity (20 hour rate)	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	After 3 month	91%
	After 6 month	82%
	After 12 month	64%

WATT TABLE (25°C)

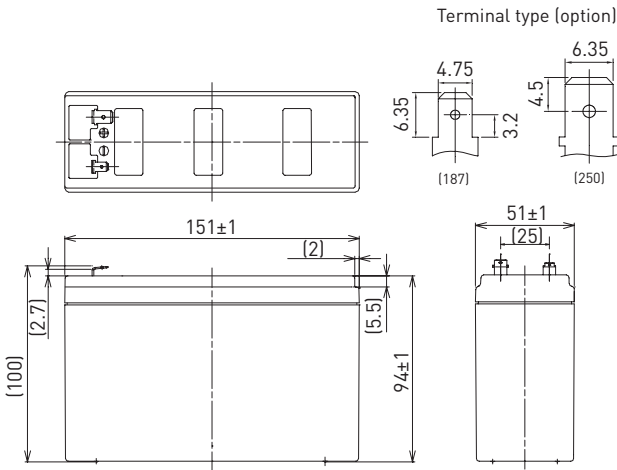
Cut-off	(Wattage/battery)															
	3min.	5min.	10min.	15min.	20min.	30min.	45min.	1h	1.5h	2h	3h	4h	5h	6h	10h	20h
9.6V	444	339	210	165	130	97.0	71.1	56.9	41.8	31.5	22.5	16.6	13.8	11.7	7.39	3.86
9.9V	418	290	179	157	127	95.0	70.7	55.5	40.9	31.3	22.4	16.5	13.7	11.4	7.36	3.85
10.2V	391	276	174	149	124	93.0	67.7	53.9	38.8	29.6	21.5	15.9	13.2	11.2	7.04	3.72
10.5V	355	251	166	143	118	89.5	65.9	52.8	37.3	28.6	20.3	15.8	13.1	11.1	7.01	3.71
10.8V	318	226	157	137	113	86.0	61.7	48.8	34.8	25.5	19.5	14.6	12.0	10.3	6.53	3.47

AMPERE TABLE (25°C)

Cut-off	(Ampere/battery)															
	3min.	5min.	10min.	15min.	20min.	30min.	45min.	1h	1.5h	2h	3h	4h	5h	6h	10h	20h
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	0.958	0.634	0.344
9.9V	34.7	26.5	16.7	13.0	10.7	8.12	6.02	4.71	3.25	2.54	1.88	1.44	1.18	0.954	0.631	0.343
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	0.916	0.604	0.331
10.5V	29.5	22.9	15.5	11.8	9.90	7.65	5.61	4.48	2.96	2.32	1.76	1.33	1.07	0.906	0.602	0.320
10.8V	26.4	20.6	14.6	11.3	9.48	7.35	5.26	4.14	2.76	2.07	1.64	1.28	1.03	0.838	0.560	0.309

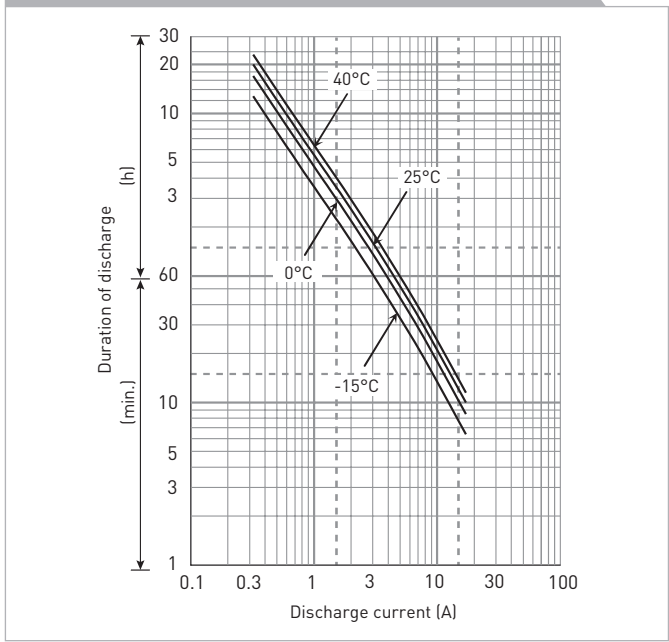
All mentioned values are average values

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



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

DURATION OF DISCHARGE VS. DISCHARGE CURRENT



UP-VWA1232P

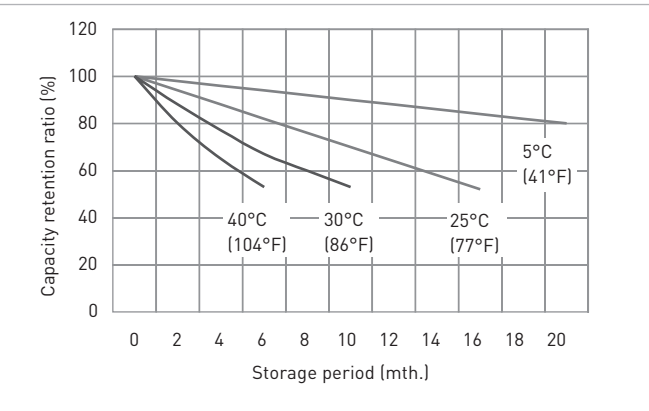
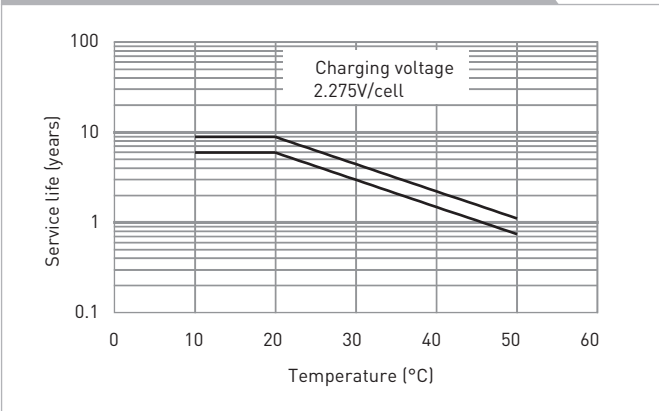
CHARGING METHOD (25°C)

Trickle use	Control voltage: 13.6V - 13.8V
	Initial current: 0.900A or smaller

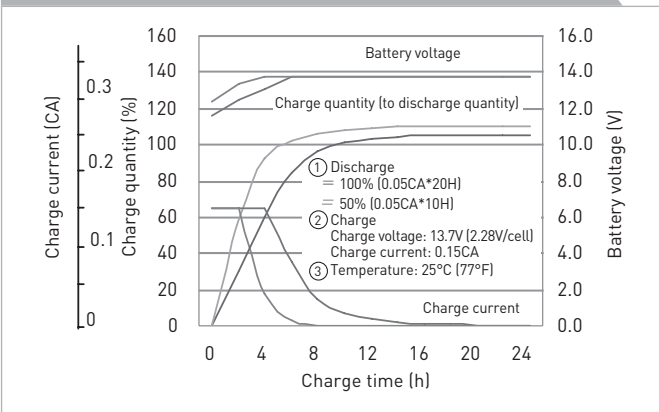
CUT-OFF VOLTAGE

Discharge current	0.300A - 1.20A	1.20A - 3.00A	3.00A - 6.00A	6.00A - 12.0A	12.0A - 18.0A
Cut-off voltage	10.5V	10.2V	9.9V	9.3V	8.7V

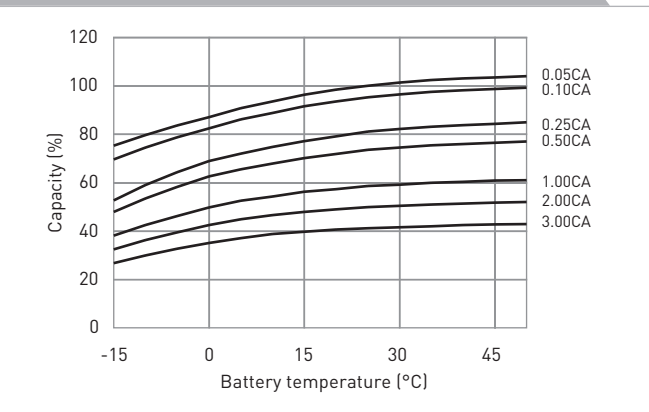
INFLUENCE OF TEMPERATURE ON TRICKLE LIFE



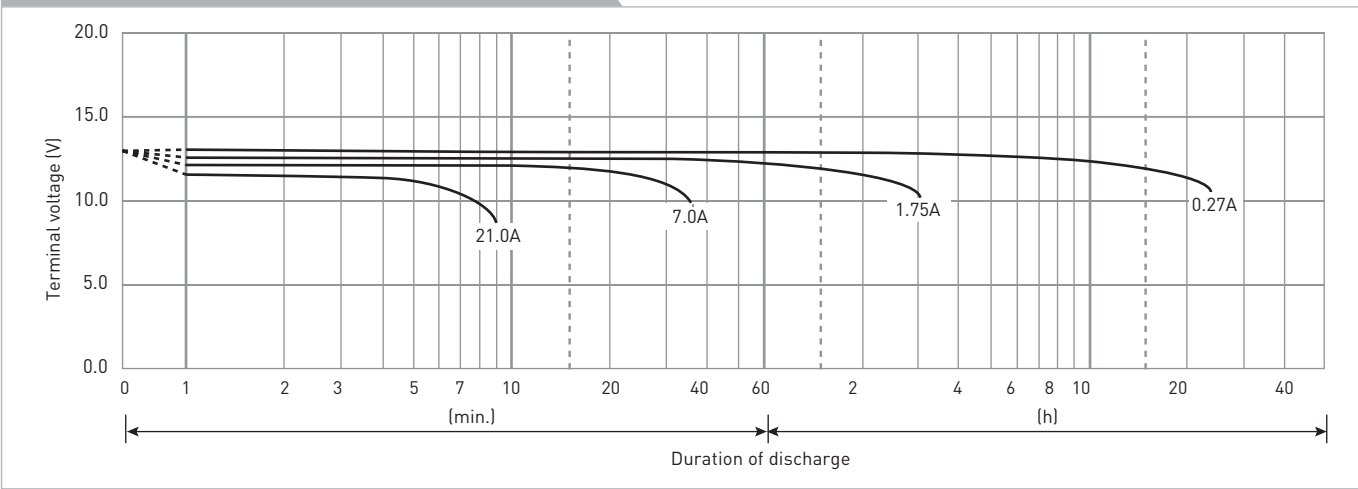
CONSTANT-VOLTAGE CONSTANT-CURRENT CHARGE CHARACTERISTICS FOR TRICKLE USE



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.

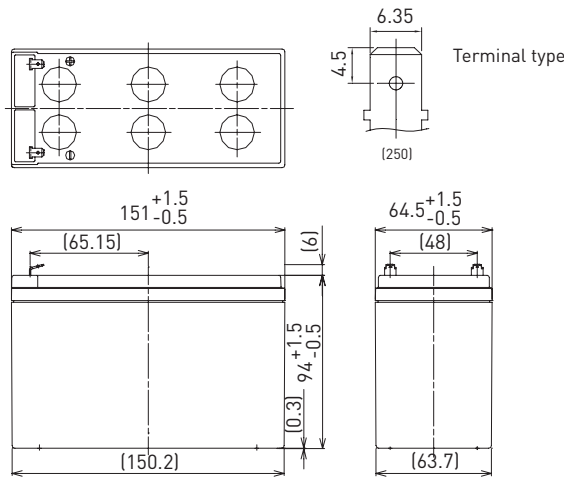
UP-VW1236P

DIMENSIONS (MM)



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

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

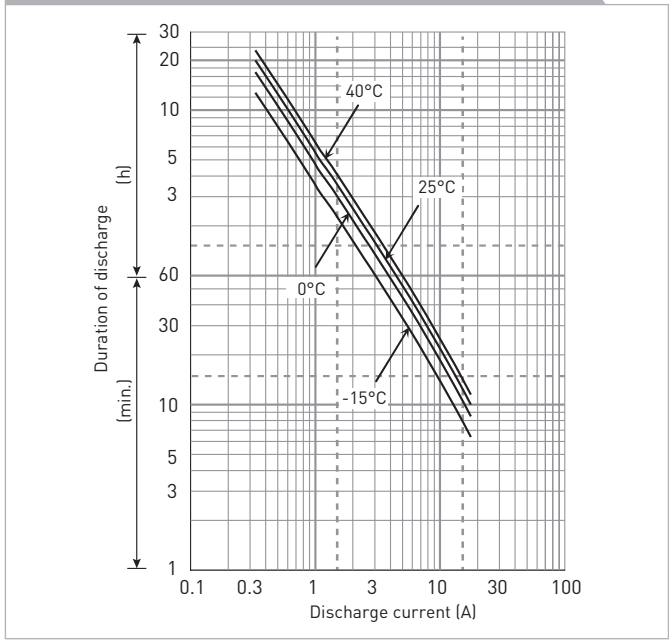


Battery case resin: flame retardant (UL94 V-0)

SPECIFICATIONS

Name	UP-VW1236P1	
Nominal voltage	12V	
Rated power (cell@10MR)	36W	
Dimensions	Length	151mm
	Width	64.5mm
	Height	100mm
Approx. mass	2.05kg	
Terminal	Faston 250	
Capacity (25°C)	30 minute rate	102W
	15 minute rate	169W
	10 minute rate	224W
	5 minute rate	348W
Impedance	Fully charged battery (25°C)	21mΩ
	40°C	102%
Temperature dependency of capacity (20 hour rate)	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	After 3 month	91%
	After 6 month	82%
	After 12 month	64%

DURATION OF DISCHARGE VS. DISCHARGE CURRENT



WATT TABLE (25°C)

Cut-off	3min.	5min.	10min.	15min.	20min.	30min.	45min.	1h	1.5h	2h	3h	4h	5h	6h	10h	20h
9.6V	461	348	224	169	140	102	73.3	58.3	44.1	34.5	24.3	18.6	15.1	12.7	7.60	4.02
9.9V	434	298	190	161	135	99.5	72.8	56.9	43.3	34.2	24.2	18.4	15.0	12.4	7.56	4.01
10.2V	406	283	185	153	131	97.4	69.8	55.3	41.0	32.3	23.1	18.1	14.4	12.1	7.24	3.87
10.5V	368	258	177	146	125	93.7	67.9	54.1	39.4	31.3	22.6	17.7	14.3	12.0	7.21	3.86
10.8V	331	232	167	140	120	90.1	63.6	50.0	36.8	27.9	21.0	16.4	13.1	11.1	6.72	3.61

AMPERE TABLE (25°C)

Cut-off	3min.	5min.	10min.	15min.	20min.	30min.	45min.	1h	1.5h	2h	3h	4h	5h	6h	10h	20h
9.6V	38.1	28.7	17.7	14.1	11.4	8.57	6.26	4.99	3.42	2.64	1.96	1.50	1.23	0.990	0.655	0.355
9.9V	35.9	27.4	17.3	13.4	11.0	8.39	6.22	4.85	3.35	2.62	1.95	1.49	1.22	0.986	0.652	0.354
10.2V	33.5	26.0	16.8	12.8	10.7	8.21	5.96	4.73	3.18	2.48	1.86	1.43	1.17	0.946	0.624	0.342
10.5V	30.4	23.7	16.0	12.2	10.23	7.91	5.80	4.63	3.05	2.40	1.82	1.37	1.10	0.936	0.622	0.330
10.8V	27.3	21.3	15.1	11.7	9.80	7.60	5.43	4.28	2.85	2.14	1.69	1.32	1.07	0.866	0.579	0.319

All mentioned values are average values

UP-VW1236P

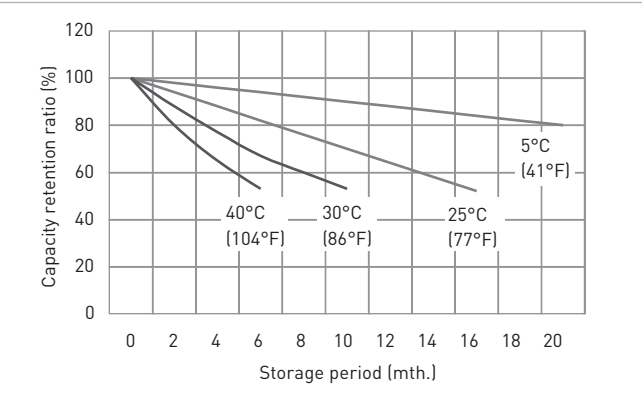
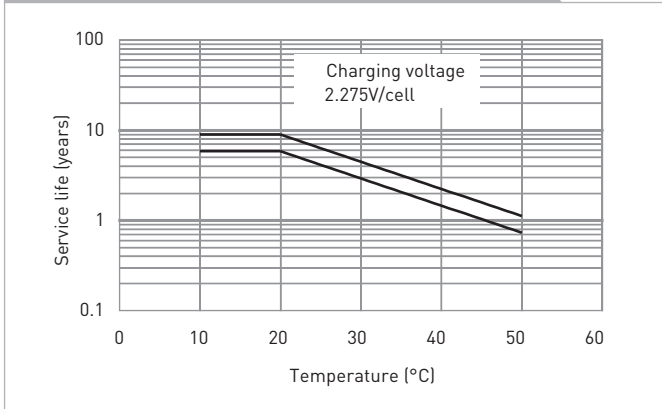
CHARGING METHOD (25°C)

Trickle use	Control voltage: 13.6V - 13.8V Initial current: 0.930A or smaller
-------------	--

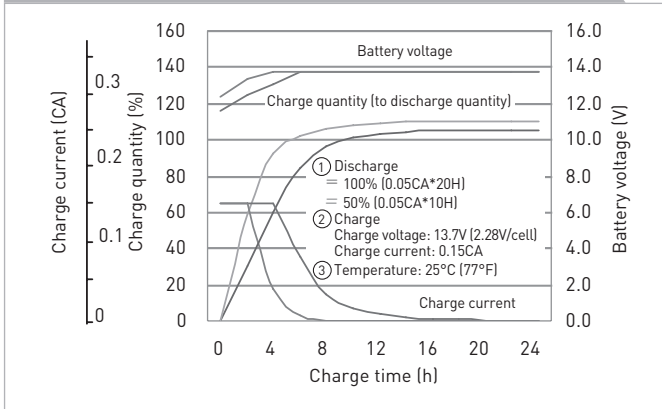
CUT-OFF VOLTAGE

Discharge current	0.310A - 1.24A	1.24A - 3.10A	3.10A - 6.20A	6.20A - 12.4A	12.4A - 18.6A
Cut-off voltage (V)	10.5	10.2	9.9	9.3	8.7

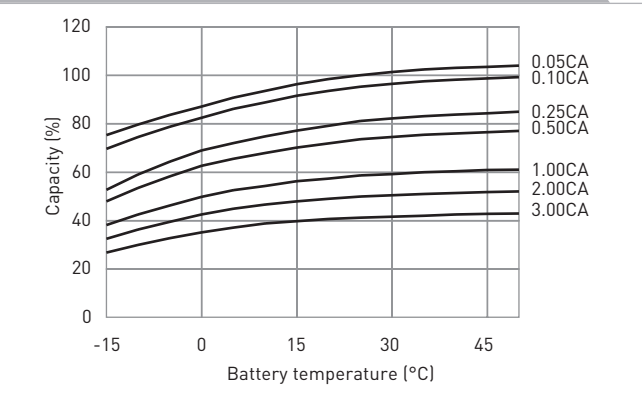
INFLUENCE OF TEMPERATURE ON TRICKLE LIFE



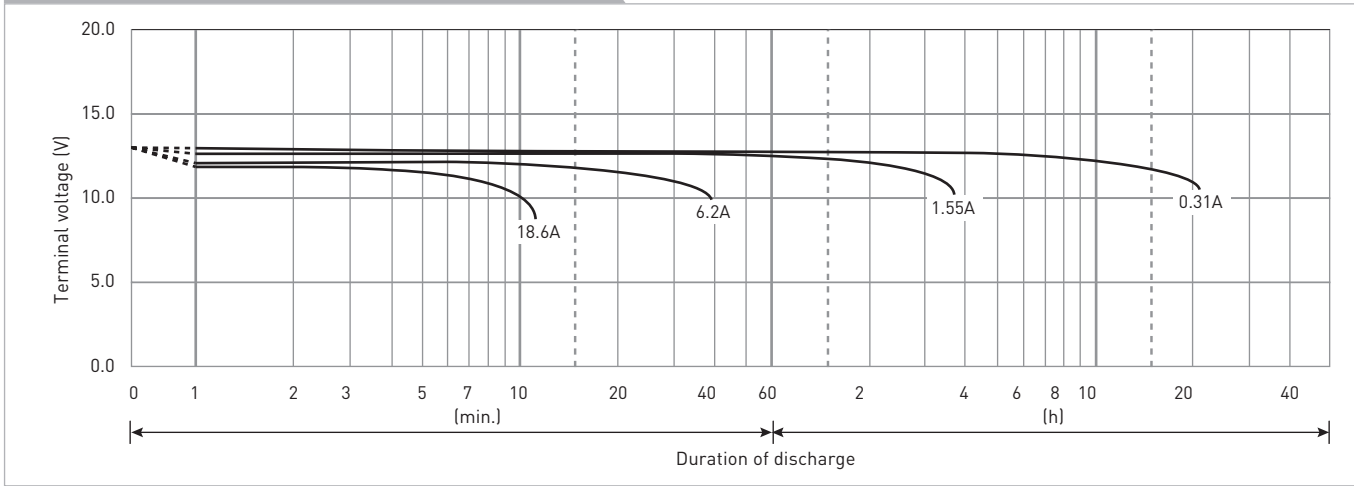
CONSTANT-VOLTAGE CONSTANT-CURRENT CHARGE CHARACTERISTICS FOR TRICKLE USE



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.

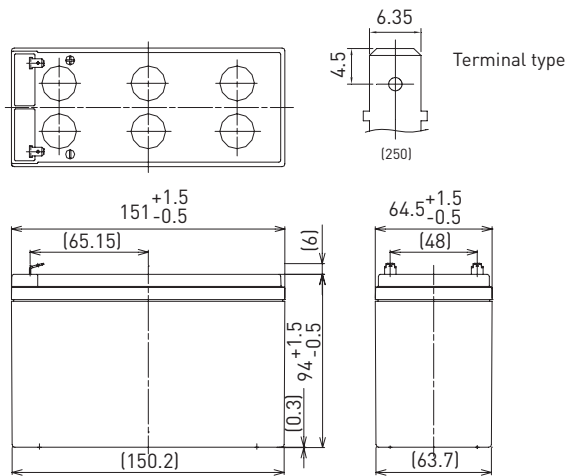
UP-VW1245P

DIMENSIONS (MM)



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

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

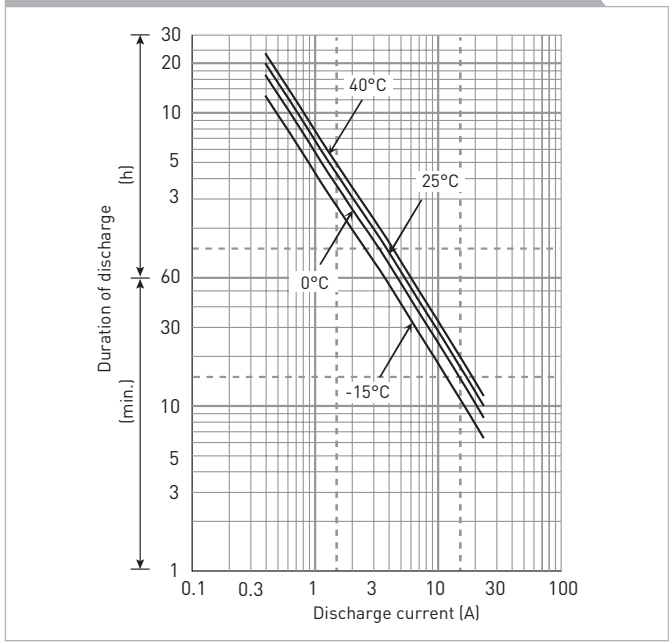


Battery case resin: flame retardant (UL94 V-0)

SPECIFICATIONS

Name	UP-VW1245P1	
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
	40°C	102%
Temperature dependency of capacity (20 hour rate)	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	After 3 month	91%
	After 6 month	82%
	After 12 month	64%

DURATION OF DISCHARGE VS. DISCHARGE CURRENT



WATT TABLE (25°C)

Cut-off	3min.	5min.	10min.	15min.	20min.	30min.	45min.	1h	1.5h	2h	3h	4h	5h	6h	10h	20h
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)

Cut-off	3min.	5min.	10min.	15min.	20min.	30min.	45min.	1h	1.5h	2h	3h	4h	5h	6h	10h	20h
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

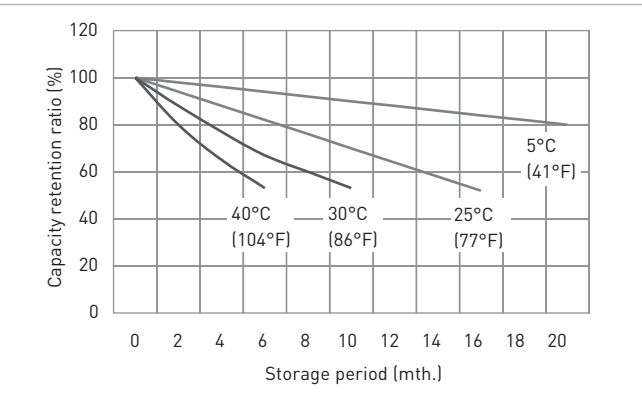
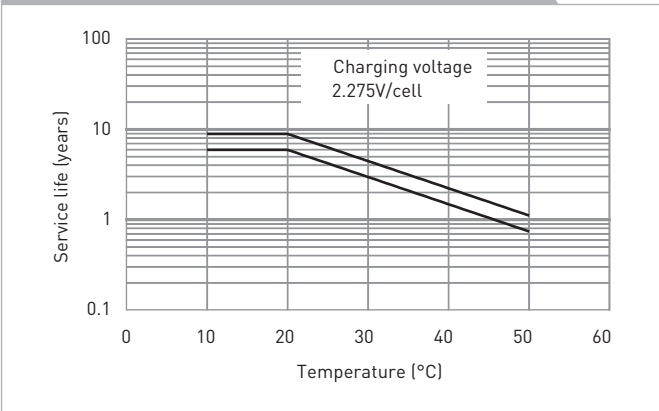
CHARGING METHOD (25°C)

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

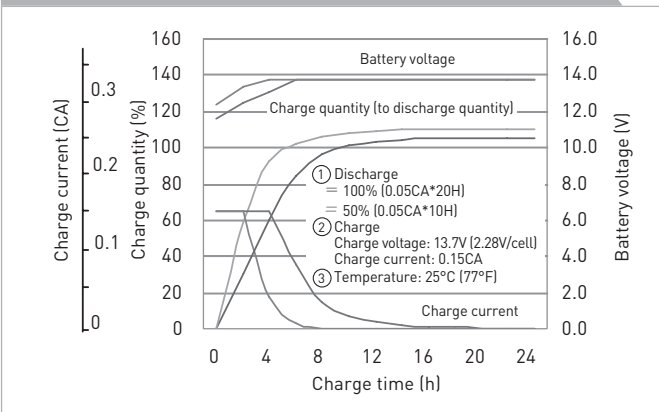
CUT-OFF VOLTAGE

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

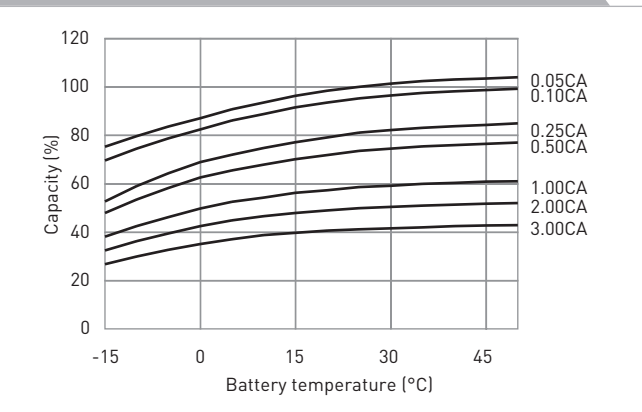
INFLUENCE OF TEMPERATURE ON TRICKLE LIFE



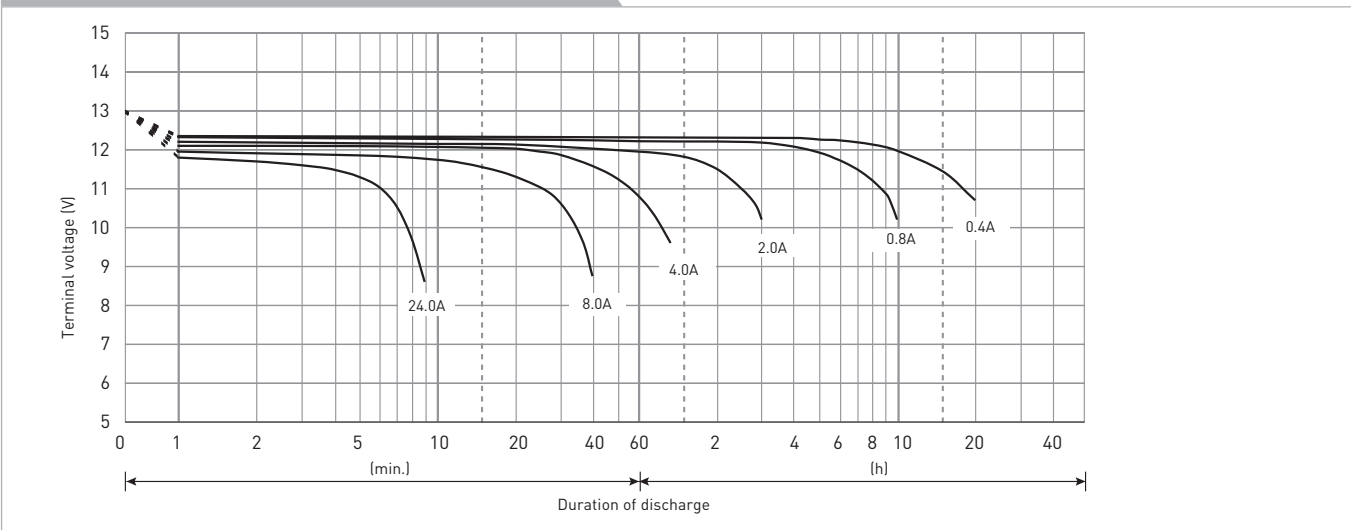
CONSTANT-VOLTAGE CONSTANT-CURRENT CHARGE CHARACTERISTICS FOR TRICKLE USE



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.

UP-PW1245P

DIMENSIONS (MM)



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

SPECIFICATIONS

Name		UP-PW1245P1
Nominal voltage		12V
Rated power (cell@10MR)		270W
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
	40°C	102%
Temperature dependency of capacity (20 hour rate)	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	After 3 month	91%
	After 6 month	82%
	After 12 month	64%

WATT TABLE (25°C)

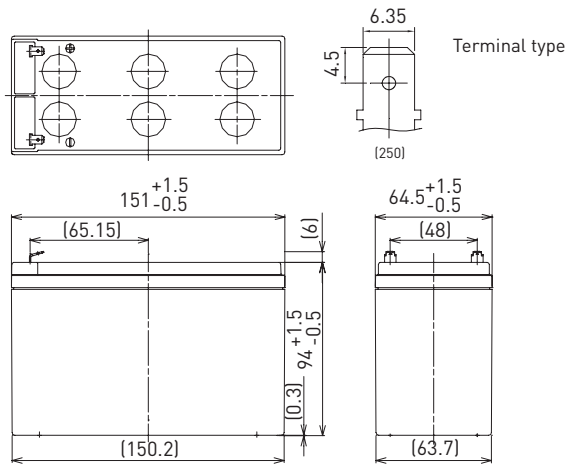
Cut-off	(Wattage/battery)															
	3min.	5min.	10min.	15min.	20min.	30min.	45min.	1h	1.5h	2h	3h	4h	5h	6h	10h	20h
9.6V	530	410	270	195	159	112	82.1	65.7	45.2	34.9	26.0	20.0	16.5	13.3	8.79	4.76
9.9V	509	400	263	194	158	111	81.6	65.1	44.3	34.7	25.9	19.8	16.4	13.2	8.75	4.75
10.2V	490	390	258	193	156	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)

Cut-off	(Ampere/battery)															
	3min.	5min.	10min.	15min.	20min.	30min.	45min.	1h	1.5h	2h	3h	4h	5h	6h	10h	20h
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

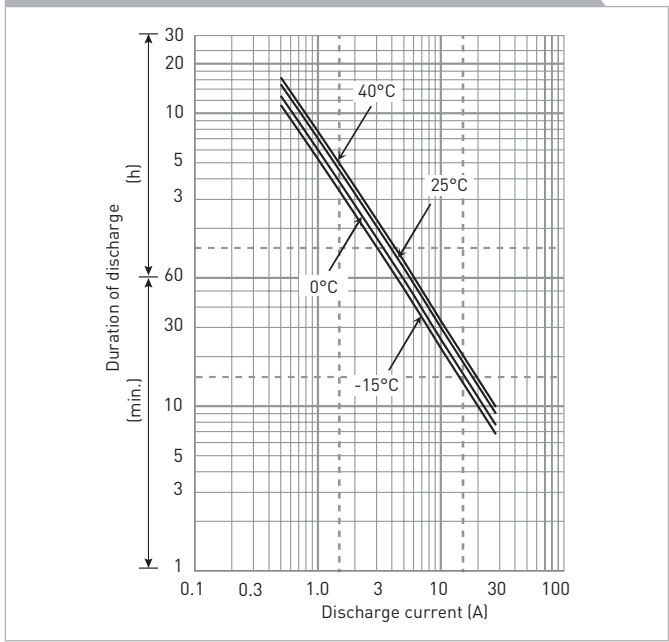
All mentioned values are average values

FOR STANDBY POWER SUPPLIES.
EXPECTED TRICKLE DESIGN LIFE: 10 – 12 YEARS AT 20°C
ACCORDING TO EUROBAT.



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

DURATION OF DISCHARGE VS. DISCHARGE CURRENT



UP-PW1245P

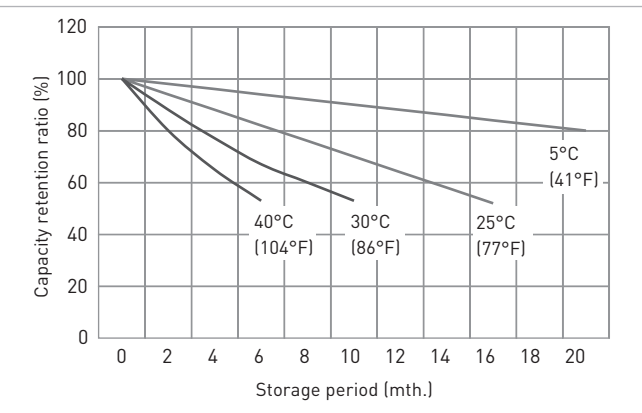
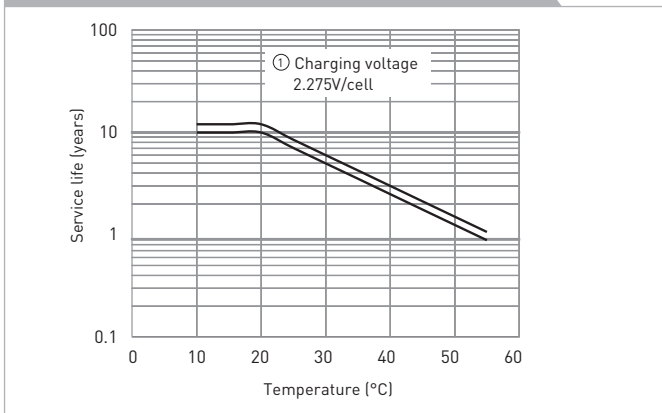
CHARGING METHOD (25°C)

Trickle use	Control voltage: 13.6V - 13.8V
	Initial current: 1.2A or smaller

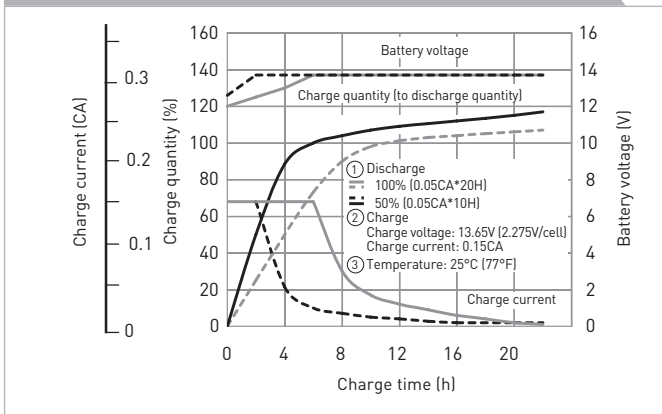
CUT-OFF VOLTAGE

Discharge current	0.4A - 1.6A	1.6A - 4A	4A - 8A	8A - 16A	16A - 24A
Cut-off voltage	10.5V	10.2V	9.9V	9.3V	8.7V

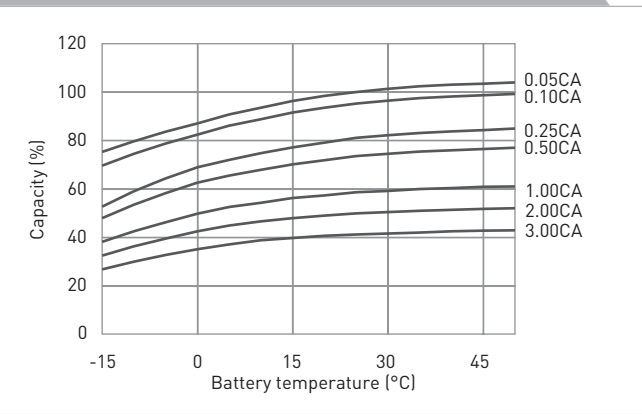
INFLUENCE OF TEMPERATURE ON TRICKLE LIFE



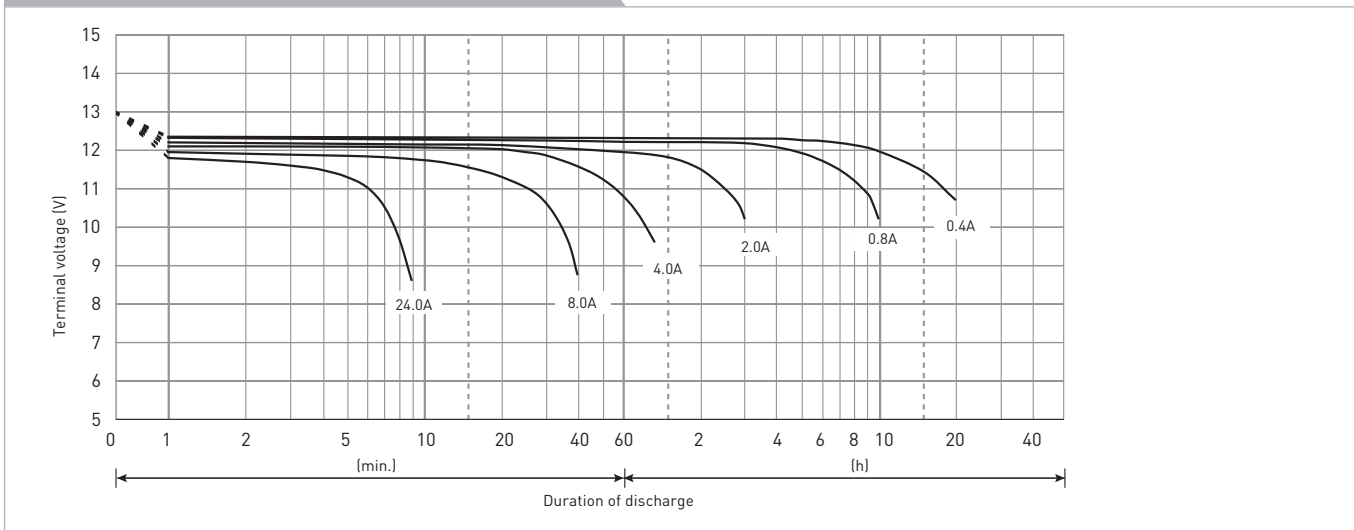
CONSTANT-VOLTAGE CONSTANT-CURRENT CHARGE CHARACTERISTICS FOR TRICKLE USE



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.