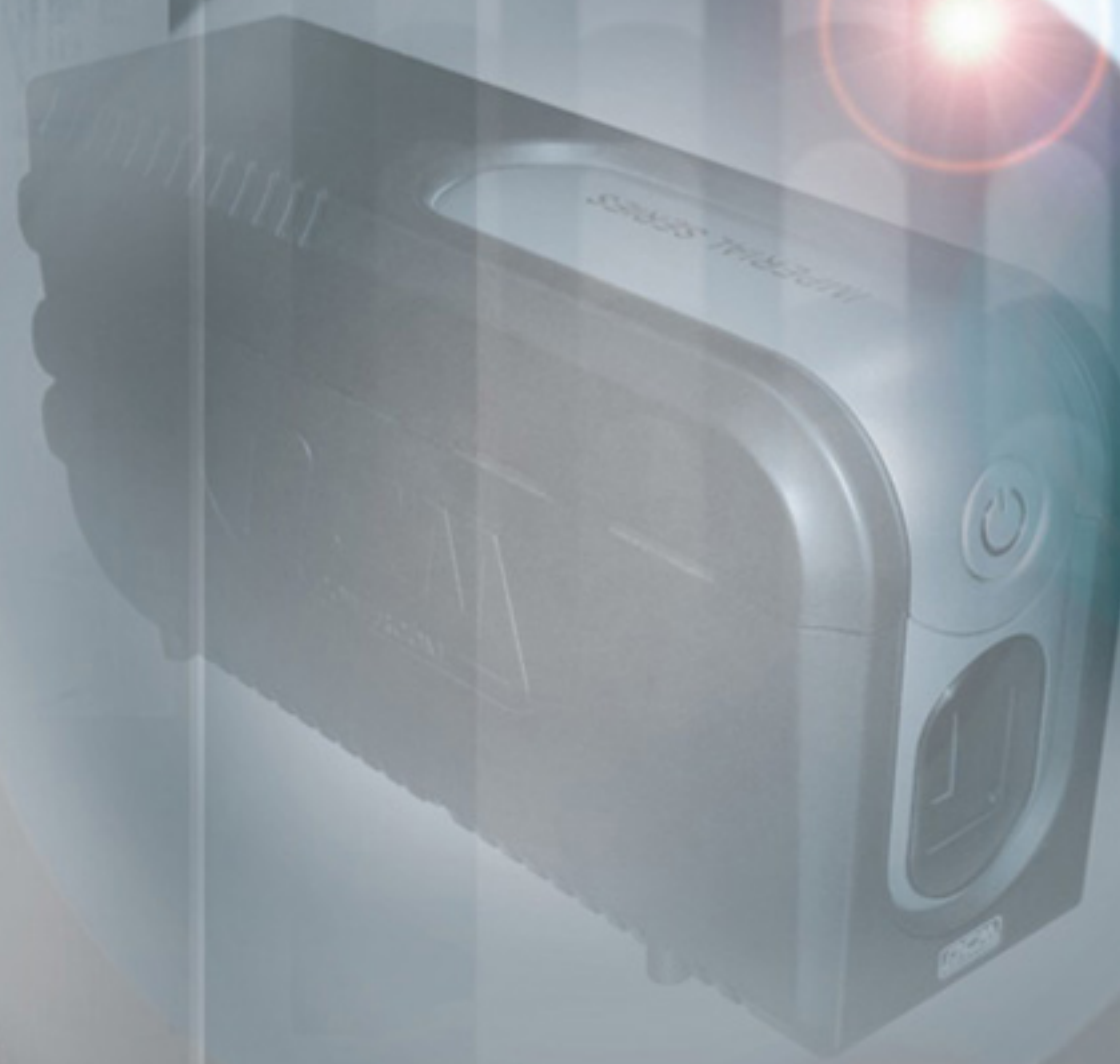


BATTERY
CS3



UPS series
General Purpose
Full Product Line

ENERGY OF INFINITY ▼

Confidence & Creativity
Service & Sincerity
Belief & Bravery

UPS

UPS series

UPS-series batteries use the latest wafer-thin plate technology to provide optimum high-rate (5-min) performance. They are small and lightweight yet still deliver the power of larger batteries. With more than 260 cycles at 100% discharge in cycle service, or up to 5 years of standby service, the UPS series is the next generation of high-rate uninterruptible power.

All UPS series batteries are rechargeable, highly efficient, maintenance free, leakproof, useable in any orientation and ISO/UL recognized.



Performance

- Multifunctional.
- Superior patented lead plate formula for greater conductivity
- Superior high-rate discharge capability.
- Cost-effective power density in a smaller footprint.
- Uniform plate formation for consistent capacity.
- No-spill design.
- Useable in any orientation.
- Maintenance free.
- Low self-discharge.

Service life

- Up to 5 years expected life under normal float charge at 25 °C (77 °F).
- Extended shelf life (up to 14 months at 20 °C).

Reliability

- CSB-manufactured batteries are 100% 2-cycle tested by CCDS.
- CSB-manufactured batteries are UL-recognized components under UL 924 and UL 1989. CSB file number MH14533.
- ISO9001/14001 certified.

Applications

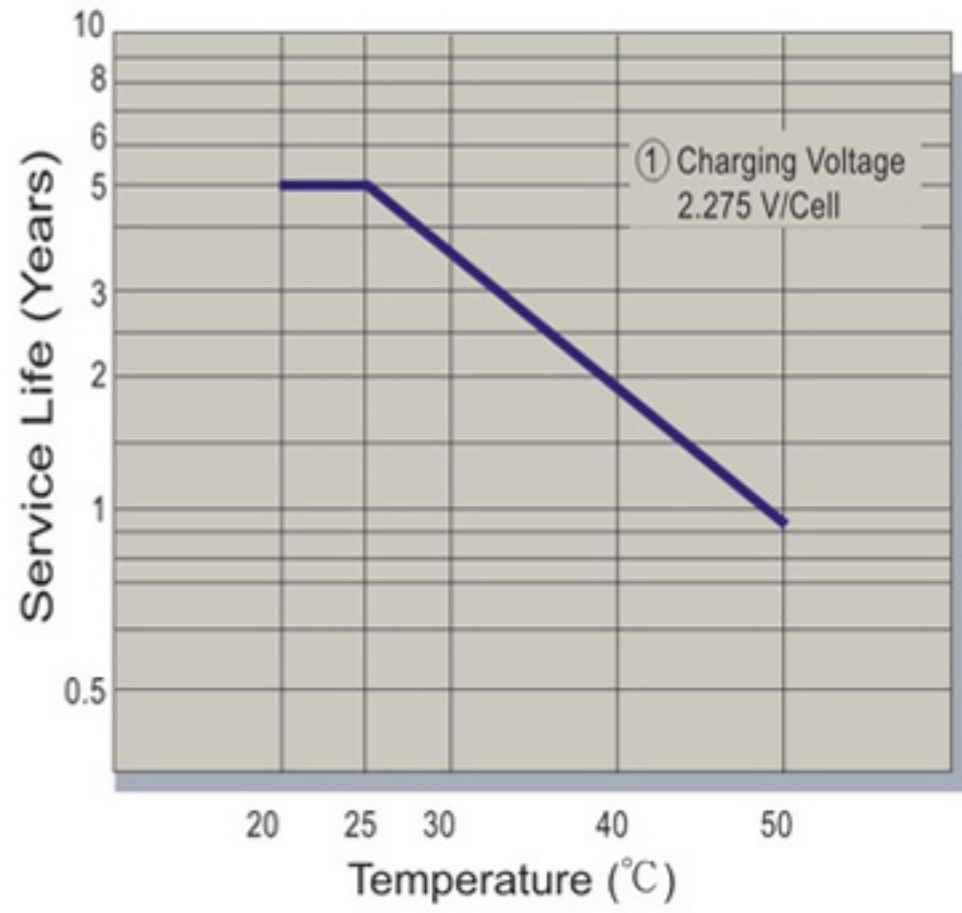
Standby use

- UPS power supply.
- Workstation UPS.
- Emergency lighting equipment.
- Precision instrumentation.
- Fire alarms and security systems.
- Communications and electrical equipment.
- Office computers, microcomputers and OA equipment.
- Telemeters.

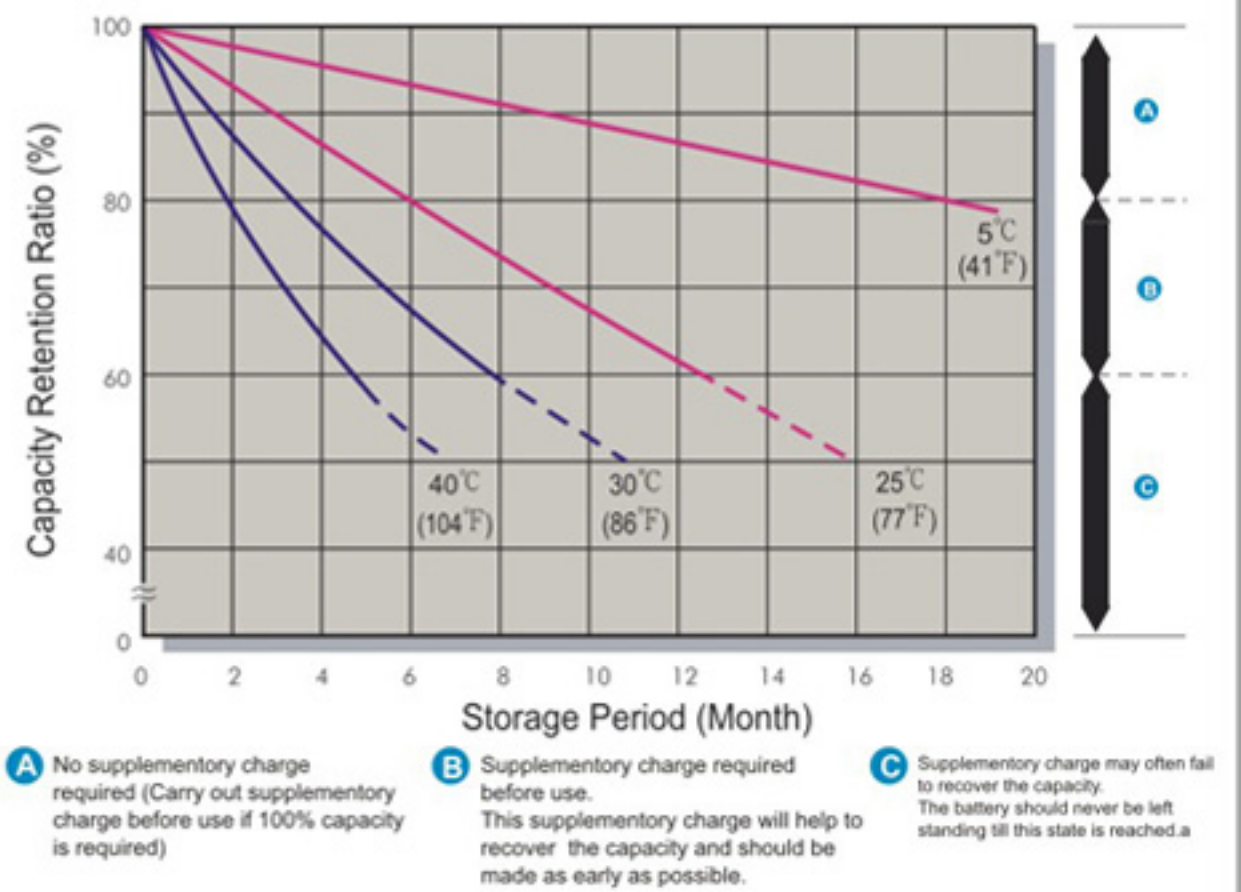
Cycle use

- Portable measuring equipment.
- Cameras and photographic equipment.
- Various toys and hobby equipment.

Trickle (or Float) Service Life

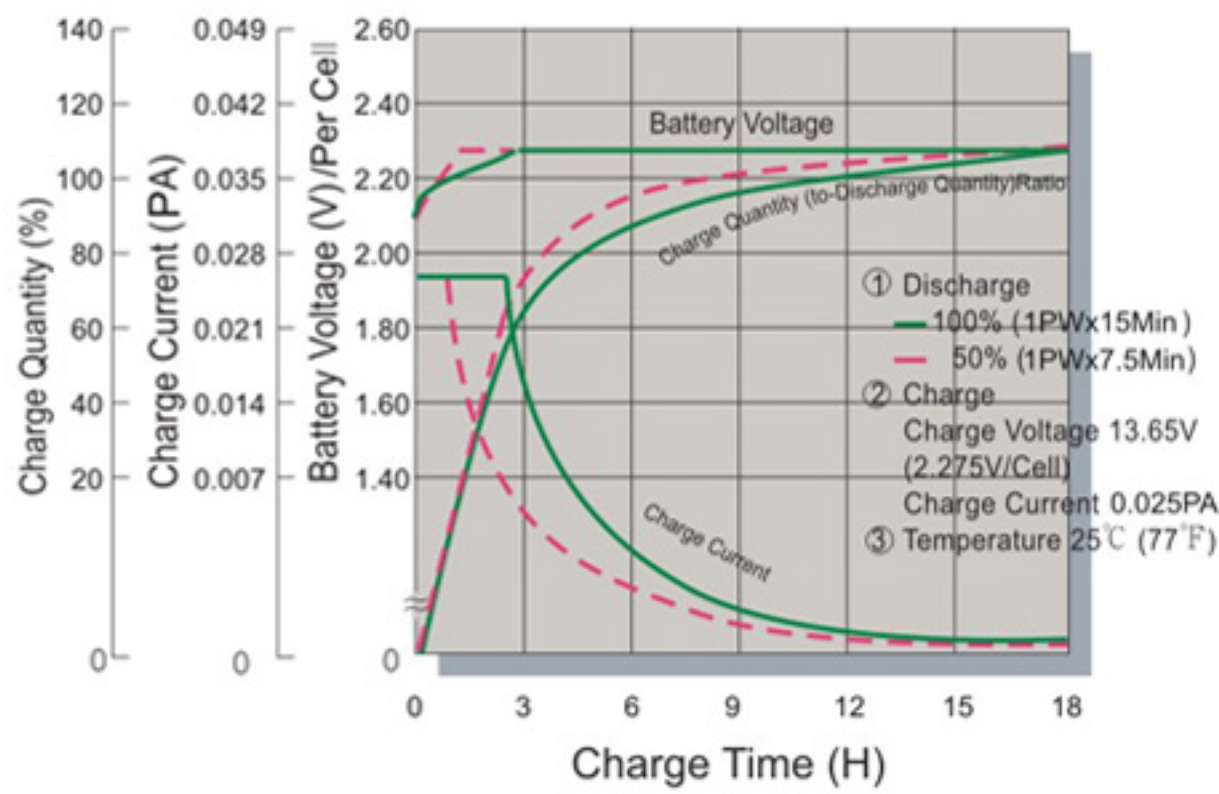


Capacity Retention Characteristic

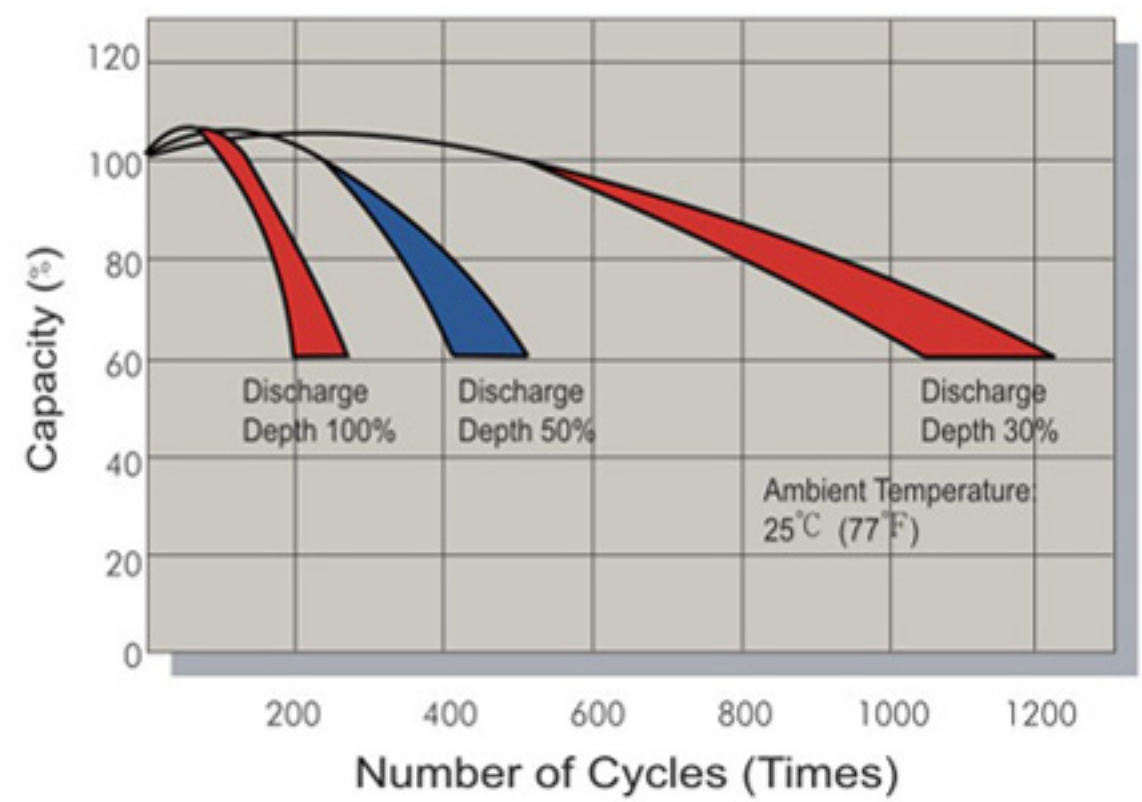


Supplementary charge and storage guidelines

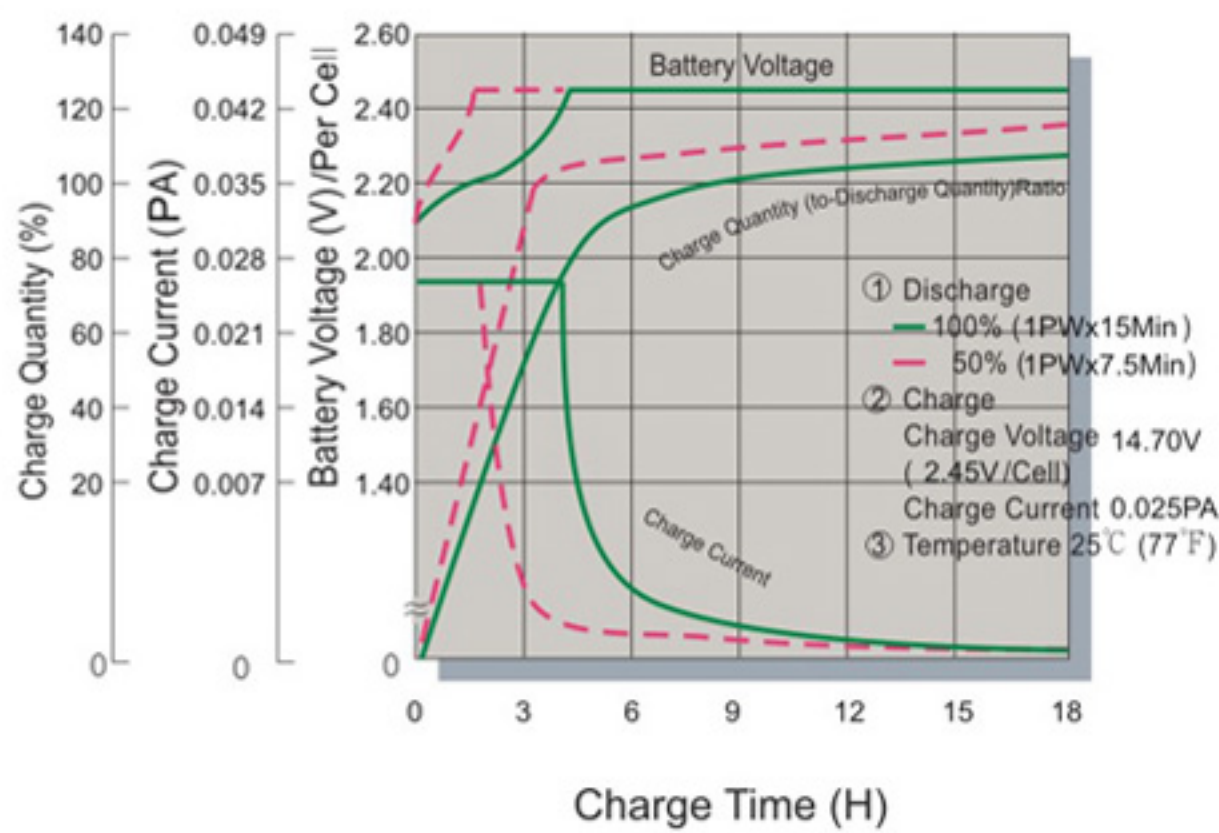
Battery Voltage and Charge Time for Standby Use



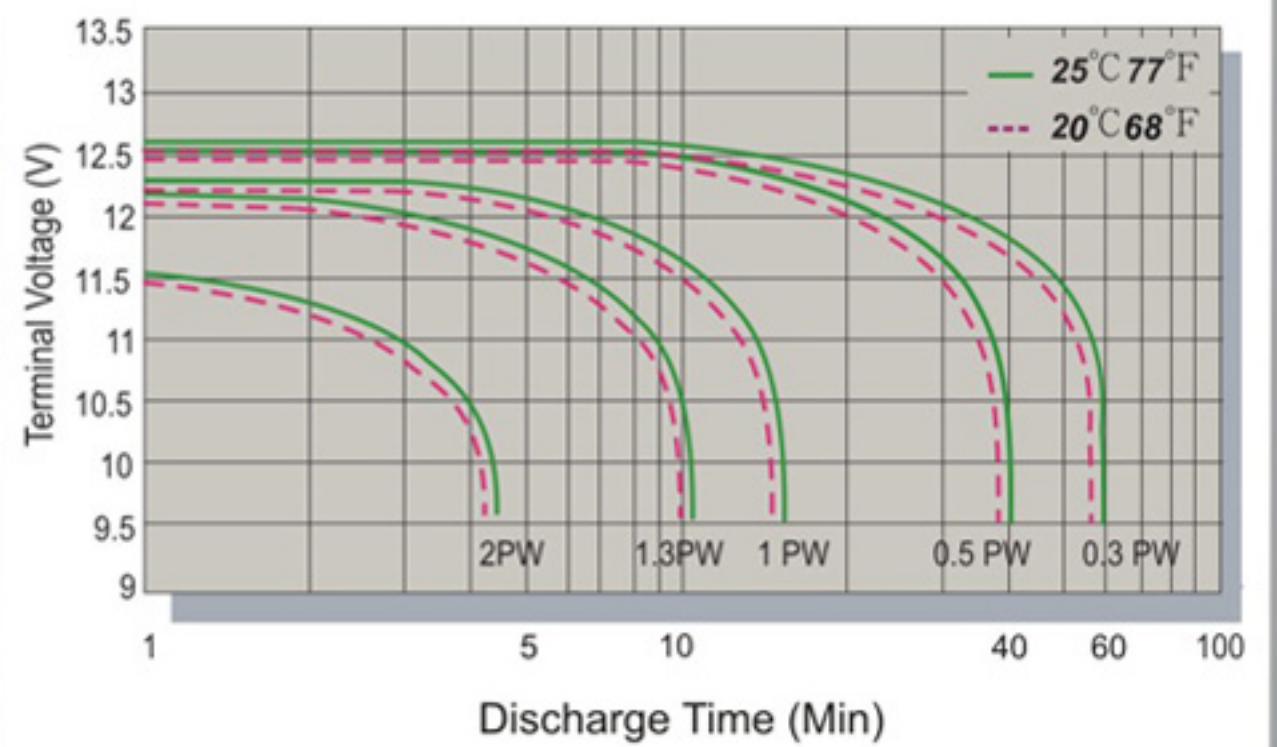
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



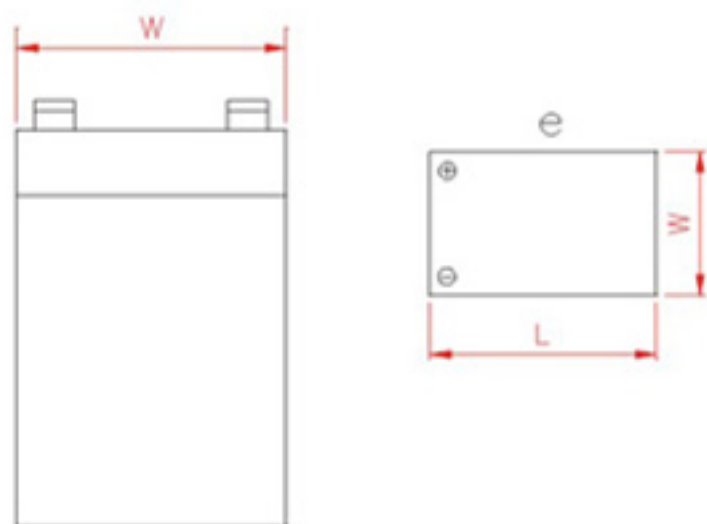
Terminal Voltage (V) and Discharge Time



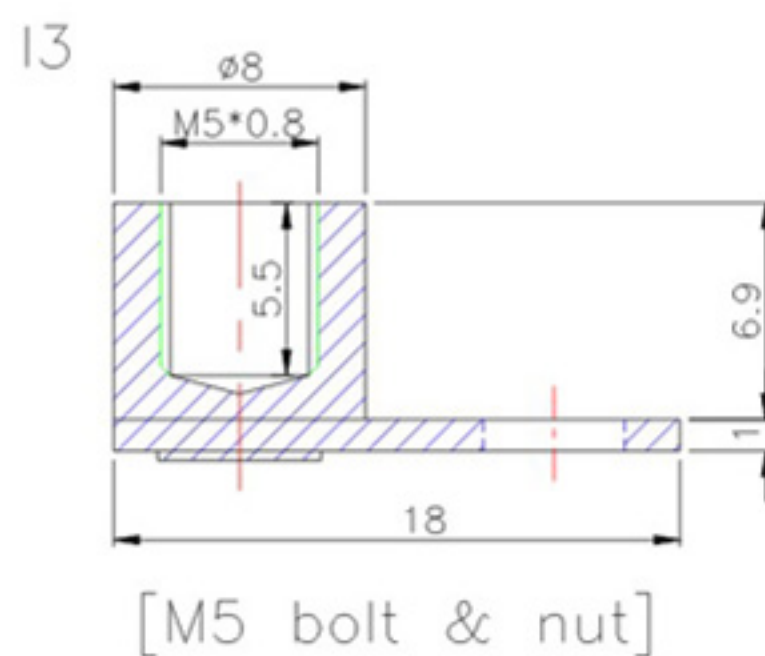
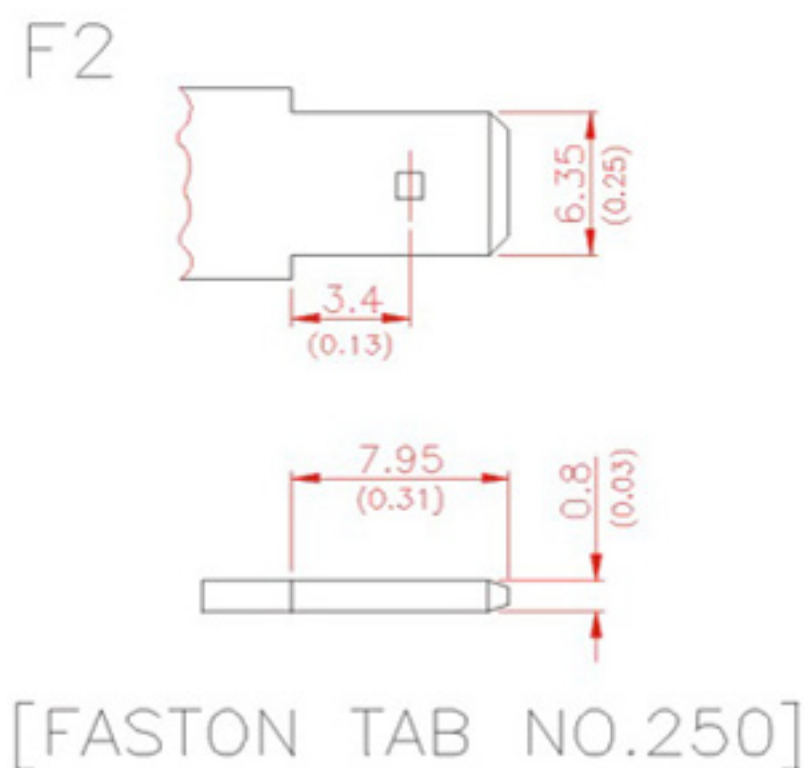
Specifications

Type	Nominal Voltage(V)	Nominal Capacity (5min) (Wh/cell)	Weight (Approx. kg)	Energy Density (wh/L)	Specific Energy (wh/kg)	Internal Resistance Approx. (mΩ)	Max. Discharge Current 5 sec (A)	Dimensions (mm)				Terminal Position	Terminal Type	Max. Charging Current (A)	Charging(V)	
								Height Over Terminal (H)	Container Height (h)	Length (L)	Width (W)				Standby Use	Cycle Use
UPS360	12	60	1.91	41.4	15.70	20.50	130	98.3±1.0	94±1.0	151±2.0	51±0.5	e	F2	3.00	2.275V±0.025/CELL AT 25°C (77°F)	2.45V±0.05V/CELL AT 25°C (77°F)
UPS460	12	77	2.45	41.7	15.71	17.50	130	98.3±1.0	94±1.0	151±2.0	65±1.0	e	F2	3.85	Temp Coefficient -3.3mV/CELL°C	Temp Coefficient -5mV/CELL°C
UPS580	12	97	2.75	75.6	17.63	12.50	130	98.3±1.0	94±1.0	151±2.0	65±1.0	e	I3	4.85		

Terminal Position



Terminal Type



UPS360

Constant Current Discharge Characteristics Unit:Amperes(25°C, 77°F)

F.V/Time	2MIN	3MIN	4MIN	5MIN	6MIN	7MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	60.3	48.9	41.4	36.0	31.9	28.6	26.4	22.0	16.4	13.1	9.60	5.49	3.94
1.67V	56.8	45.2	39.4	34.5	30.8	27.4	25.1	21.3	16.0	12.8	9.34	5.34	3.83
1.70V	54.1	44.1	38.4	33.5	29.9	26.8	24.7	20.7	15.6	12.6	9.14	5.27	3.77
1.75V	50.1	40.8	35.5	31.2	28.0	25.3	23.6	19.9	15.0	12.3	8.94	5.19	3.67
1.80V	45.6	37.5	32.3	28.8	26.3	23.7	22.0	18.9	14.4	11.7	8.60	4.99	3.56
1.85V	38.3	33.1	29.4	26.6	24.7	22.2	20.5	17.7	13.4	11.1	8.29	4.82	3.38

Constant Power Discharge Characteristics Unit:Watts(25°C, 77°F)

F.V/Time	2MIN	3MIN	4MIN	5MIN	6MIN	7MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	626	514	441	384	340	305	282	236	177	142	105	60.9	44.2
1.67V	602	485	427	375	335	299	274	234	176	142	104	60.3	43.8
1.70V	577	477	421	368	328	294	272	229	173	141	103	60.1	43.4
1.75V	542	448	394	347	311	282	264	222	168	139	102	59.9	42.8
1.80V	500	417	364	324	296	267	248	214	164	134	99	58.4	42.1
1.85V	426	373	336	304	282	253	234	203	154	129	97	57.1	40.4

UPS460													
Constant Current Discharge Characteristics Unit:Amperes(25°C, 77°F)													
F.V/Time	2MIN	3MIN	4MIN	5MIN	6MIN	7MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	73.2	62.5	53.7	47.7	41.7	36.9	34.2	29.6	21.7	17.5	12.8	7.24	5.22
1.67V	68.6	58.8	51.0	45.2	39.5	35.6	32.6	28.5	21.1	17.1	12.5	7.08	5.07
1.70V	64.8	56.4	48.6	43.5	38.3	34.6	31.7	27.9	20.6	16.7	12.3	6.96	5.02
1.75V	60.5	52.4	44.9	40.6	36.4	33.2	30.4	26.5	20.2	16.4	12.0	6.79	4.88
1.80V	54.6	47.4	41.2	37.3	33.4	30.7	28.6	25.2	19.0	15.8	11.7	6.58	4.74
1.85V	47.8	41.0	39.4	35.8	32.3	27.5	27.4	23.3	17.9	14.5	11.0	6.23	4.56
Constant Power Discharge Characteristics Unit:Watts(25°C, 77°F)													
F.V/Time	2MIN	3MIN	4MIN	5MIN	6MIN	7MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	760	655	571	509	446	405	366	318	234	191	140	80.4	58.6
1.67V	726	619	553	491	430	394	356	313	232	189	139	80.0	58.0
1.70V	692	607	532	476	421	390	348	308	229	187	138	79.3	57.8
1.75V	655	565	499	452	405	365	339	296	227	185	137	78.3	57.0
1.80V	600	525	463	420	377	346	323	286	216	182	135	76.9	56.0
1.85V	532	486	449	409	369	340	314	267	207	169	129	73.8	54.6

UPS580													
Constant Current Discharge Characteristics Unit:Amperes(25°C, 77°F)													
F.V/Time	2MIN	3MIN	4MIN	5MIN	6MIN	7MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	91.2	77.8	64.8	57.7	50.6	45.1	39.7	34.7	25.0	20.1	14.2	7.98	5.66
1.67V	84.6	73.1	61.8	54.8	47.8	42.9	38.1	33.4	24.1	19.5	13.8	7.74	5.49
1.70V	82.1	71.0	60.1	53.2	46.4	41.9	37.4	32.4	23.5	19.2	13.5	7.59	5.40
1.75V	76.8	65.3	55.5	49.5	43.4	39.4	36.3	31.3	22.7	18.7	13.2	7.38	5.30
1.80V	68.8	59.2	51.4	46.0	40.5	36.8	34.5	29.6	22.0	18.1	13.0	7.25	5.20
1.85V	59.8	54.2	48.7	44.1	40.0	35.9	33.4	28.3	20.9	16.9	12.5	6.86	4.93
Constant Power Discharge Characteristics Unit:Watts(25°C, 77°F)													
F.V/Time	2MIN	3MIN	4MIN	5MIN	6MIN	7MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	946	818	690	615	540	482	425	373	270	219	156	88.5	63.5
1.67V	895	783	671	596	520	468	416	366	265	216	154	87.5	62.8
1.70V	877	767	658	583	509	460	411	358	260	214	152	86.5	62.2
1.75V	832	716	617	550	483	439	405	351	255	212	151	85.2	61.8
1.80V	755	658	578	518	457	415	390	336	250	207	150	84.7	61.5
1.85V	665	611	555	504	457	411	382	325	241	197	146	81.3	59.0

All information are suggest to change without notification. Please consult CSB website (www.csb-battery.com) for latest information.



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