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# UPS123606 ▶

UPS 123606 is specially designed for high efficient discharge application. Its characteristics are high energy density, small footprint and high discharge efficiency. It can be used for more than 260 cycles at 100% discharge in cycle service, up to 5 years in standby service.



## ► Specification

<b>Cells Per Unit</b>	6
<b>Voltage Per Unit</b>	12
<b>Capacity</b>	360W @ 5min-rate to Watt(1.60V)/pcs @25 °C(77°F) 7.5 Ah @ 20hr-rate to 1.75V per pcs @25 °C(77°F)
<b>Weight</b>	Approx. 1.97 kg(4.34 lbs)
<b>Maximum Discharge Current</b>	100/130A(5sec)
<b>Internal Resistance</b>	Approx. 22m Ω
<b>Operating Temperature Range</b>	Discharge: -15°C~50°C ( 5°F~122°F) Charge: -15 °C~40°C ( 5°F~104°F) Storage: -15°C~40°C ( 5°F~104°F)
<b>Nominal Operating Temperature Range</b>	25°C±3°C(77°F±5°F)
<b>Float Charging Voltage</b>	13.5 to 13.8 VDC/unit Average at 25°C(77°F)
<b>Recommended Maximum Charging Current Limit</b>	3.0A
<b>Equalization and Cycle Service</b>	14.4 to 15.0 VDC/unit Average at 25°C(77°F)
<b>Self Discharge</b>	CSB Batteries can be stored for more than 6 months at 25°C(77°F). Please charge batteries before using. For higher temperatures the time interval will be shorter.
<b>Terminal</b>	F1/F2-Faston Tab 180/250
<b>Container Material</b>	ABS(UL 94-HB/File E50263)*Flammability resistance of (UL 94-V0/File E88637) can be available upon request.



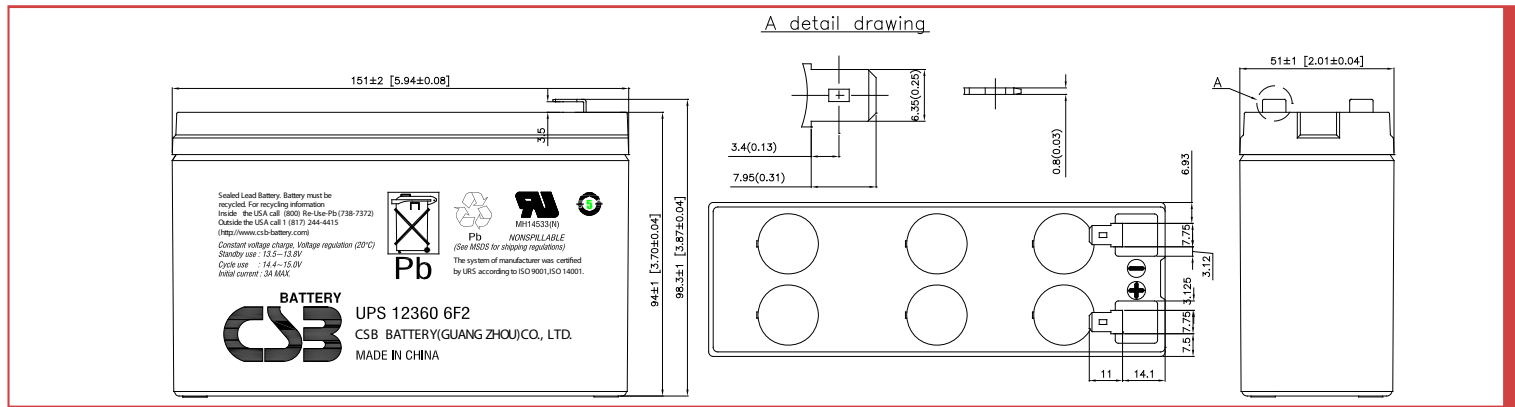
CSB-manufactured VRLA batteries are UL-recognized components under UL924 and UL1989.

CSB is also certified by ISO 9001 and ISO 14001.

## ► Dimensions :

Unit: mm (inch)

Overall Height (H)	Container height (h)	Length (L)	Width (W)
98.3±1 (3.87±0.04)	94±1 (3.7±0.04)	151±2 (5.94±0.08)	51±1 (2.01±0.04)



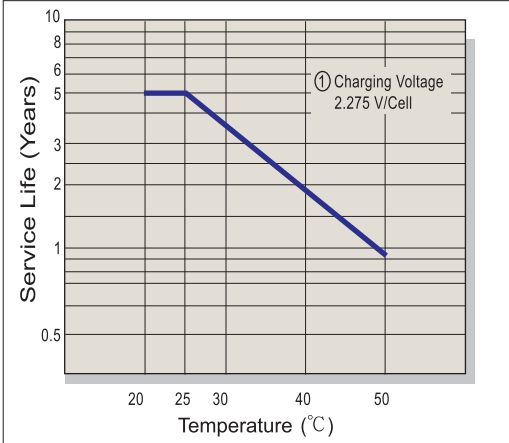
## Constant Current Discharge Characteristics Unit:A (25°C, 77°F)

F.V/Time	2MIN	3MIN	4MIN	5MIN	6MIN	7MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	59.0	47.1	40.2	34.8	30.6	27.3	24.8	21.3	15.7	12.9	9.07	5.18	3.64
1.67V	53.6	43.4	37.3	32.2	28.7	26.2	23.9	20.7	15.3	12.8	8.99	5.16	3.60
1.70V	50.4	41.4	35.9	31.2	27.8	25.3	23.3	20.3	15.0	12.6	8.81	5.12	3.56
1.75V	46.2	37.9	32.9	29.0	26.2	24.0	22.2	19.6	14.7	12.2	8.63	5.07	3.49
1.80V	39.6	34.1	30.1	26.8	24.5	22.5	20.8	18.5	14.1	11.9	8.60	4.96	3.42
1.85V	33.5	30.5	27.6	24.5	22.7	20.9	19.4	17.1	13.3	10.9	8.14	4.71	3.29

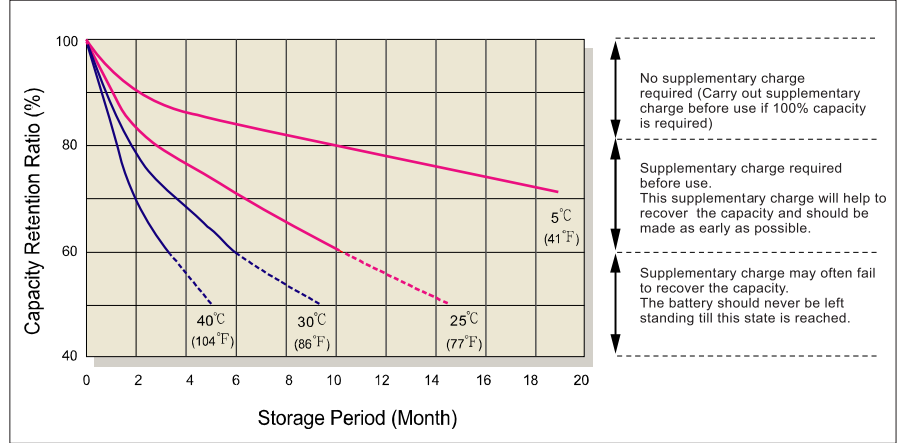
## Constant Power Discharge Characteristics Unit:W (25°C, 77°F)

F.V/Time	2MIN	3MIN	4MIN	5MIN	6MIN	7MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	577	471	414	360	323	295	270	235	176	143	104	60.5	42.7
1.67V	543	448	390	338	308	284	262	232	174	142	103	60.2	42.3
1.70V	521	431	377	330	300	278	258	227	172	140	101	59.9	41.8
1.75V	470	403	352	311	288	267	250	220	169	137	99.7	59.5	41.2
1.80V	420	375	330	293	274	254	239	210	161	133	98.1	58.0	40.5
1.85V	388	335	307	273	258	235	217	192	149	124	94.4	55.8	39.4

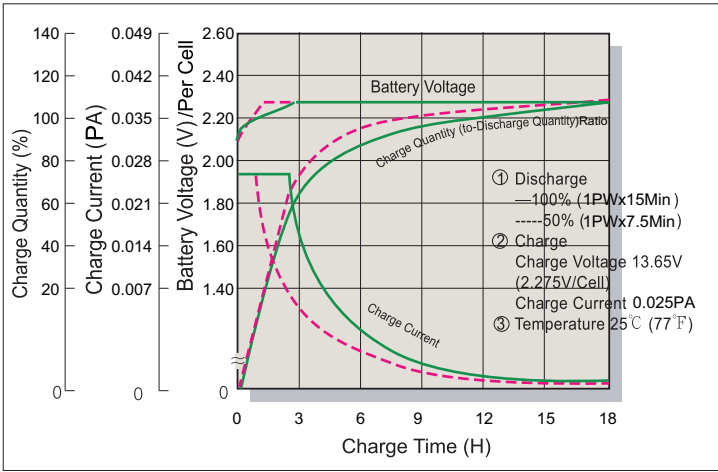
## Trickle (or Float) Service Life



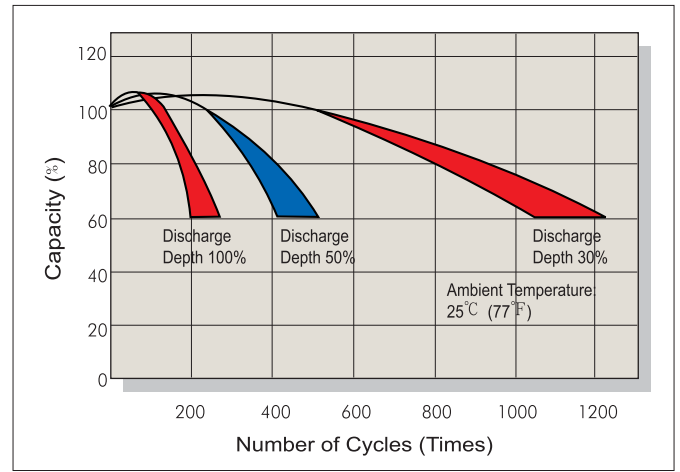
## Capacity Retention Characteristic



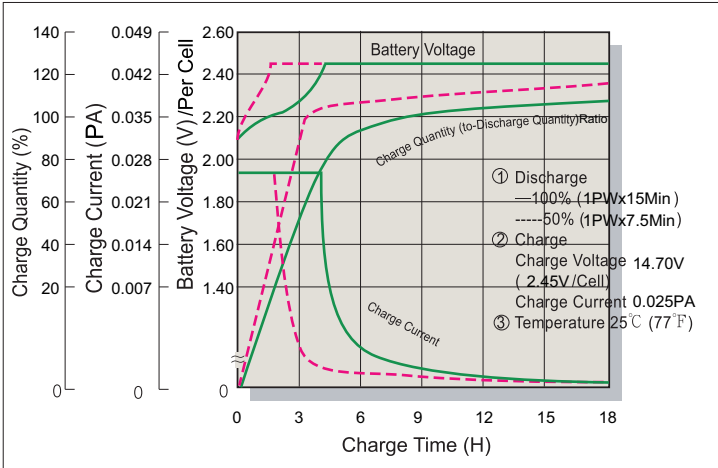
## Battery Voltage and Charge Time for Standby Use



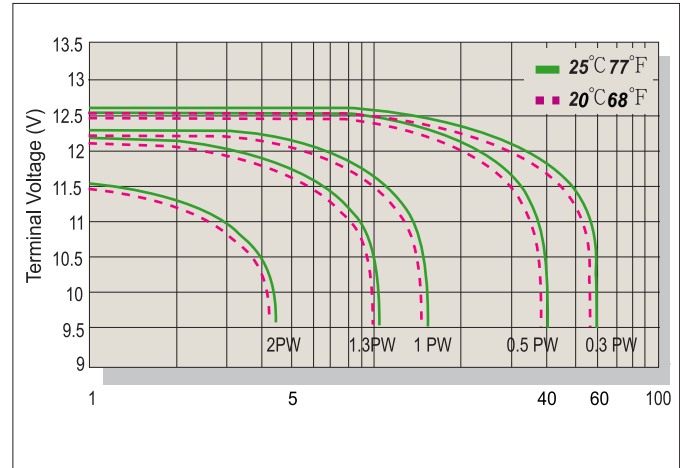
## Cycle Service Life



## Battery Voltage and Charge Time for Cycle Use



## Terminal Voltage (V) and Discharge Time



## Charging Procedures

Application	Charge Voltage(V/Cell)			Max.Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C (77°F)	2.45	2.40~2.50	0.1PA
Standby	25°C (77°F)	2.275	2.25~2.30	

P: For single cell wattage at 15 minute rate to 1.67V per cell.

## Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.75	1.70	1.60	1.30
Discharge Power(W)	0.1P>(W)	0.1P≤(W)<0.25P	0.25P≤(W)<1.0P	(W)≥1.0P

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