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# UPS12240 6 ▶

UPS 12240 6 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

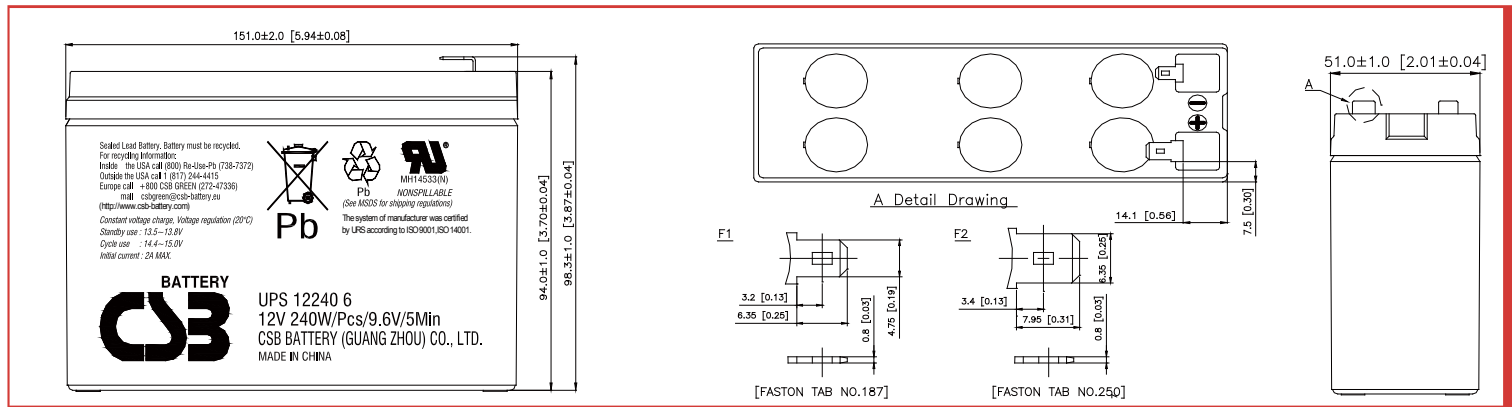
<b>Cells Per Unit</b>	6
<b>Voltage Per Unit</b>	12
	240W @ 5min-rate to Watt(1.60V)/pcs @25°C (77°F)
<b>Capacity</b>	
<b>Weight</b>	Approx. 1.45 kg(3.2 lbs)
<b>Maximum Discharge Current</b>	100/130A(5sec)
<b>Internal Resistance</b>	Approx. 32mΩ
<b>Operating Temperature Range</b>	Discharge: -15°C~50°C ( 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>	2.0A
<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) & Flammability resistance of (UL 94-V0) 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 :	Overall Height (H)	Container height (h)	Length (L)	Width (W)
Unit: mm (inch)	98.3±1.0 (3.87±0.04)	94.0±1.0 (3.70±0.04)	151.0±2.0 (5.94±0.08)	51.0±1.0 (2.01±0.04)



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

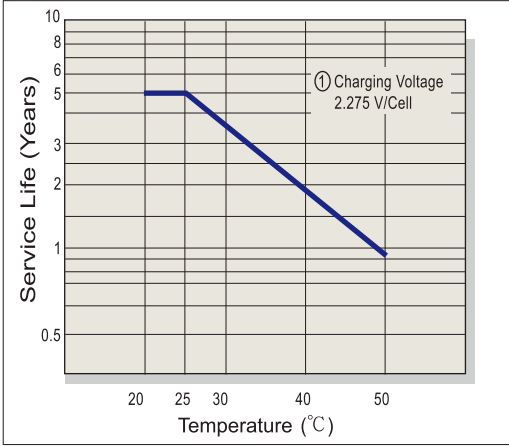
F.V/Time	2MIN	3MIN	4MIN	5MIN	6MIN	7MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	42.4	32.6	27.2	23.6	20.6	18.3	16.1	13.5	9.89	7.93	5.80	3.35	2.41
1.67V	37.4	30.3	26.0	22.7	20.0	17.7	15.9	13.3	9.77	7.88	5.77	3.34	2.40
1.70V	35.2	29.1	25.2	22.0	19.7	17.4	15.6	13.2	9.67	7.86	5.75	3.31	2.38
1.75V	31.4	26.7	23.5	20.8	18.5	16.6	14.9	12.8	9.57	7.73	5.69	3.28	2.36
1.80V	27.7	24.4	21.3	19.1	16.9	15.2	14.0	12.1	9.22	7.48	5.55	3.22	2.32
1.85V	24.0	21.0	19.0	16.7	15.0	13.7	12.6	11.0	8.53	6.96	5.28	3.08	2.23

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

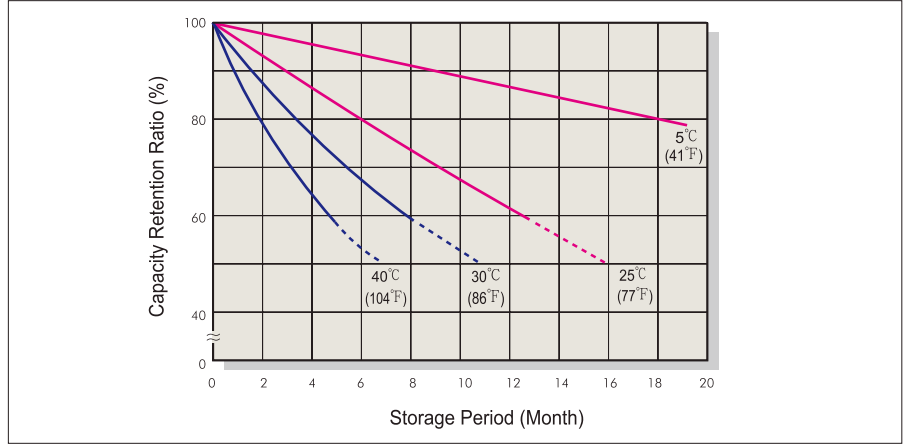
F.V/Time	2MIN	3MIN	4MIN	5MIN	6MIN	7MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	383	321	275	240	213	192	177	151	112.0	90.1	66.1	38.5	28.1
1.67V	362	306	264	233	208	189	174	149	111.0	89.7	65.7	38.4	28.0
1.70V	350	297	258	228	205	187	171	148	110.0	89.4	65.6	38.3	27.9
1.75V	324	277	243	217	196	180	166	144	109.0	88.1	65.1	38.1	27.8
1.80V	296	254	226	201	184	170	156	136	105.0	85.5	63.7	37.5	27.4
1.85V	258	228	203	184	170	154	143	127	97.8	79.7	61.3	36.1	26.4

Ratings presented herein are subject to revision without notice. Please refer to [www.csb-battery.com](http://www.csb-battery.com) to confirm the latest version.

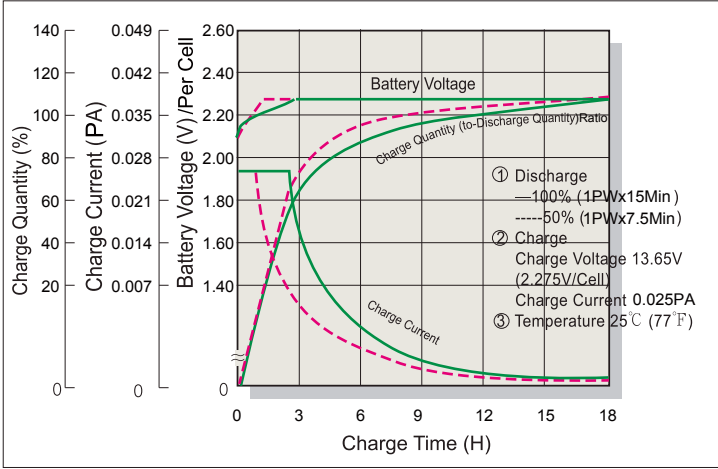
## Trickle (or Float) Service Life



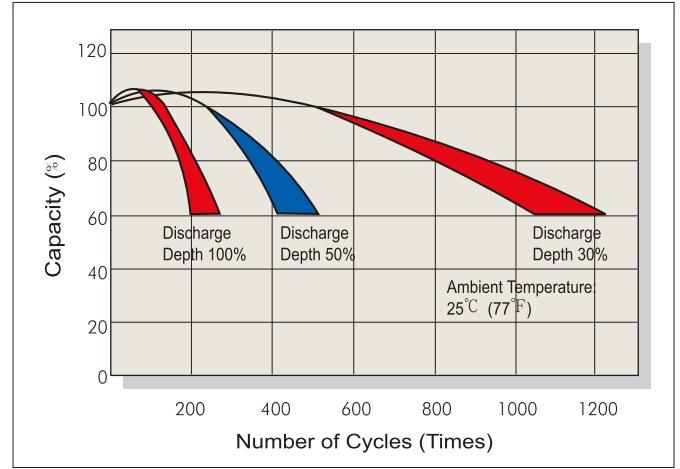
## Capacity Retention Characteristic



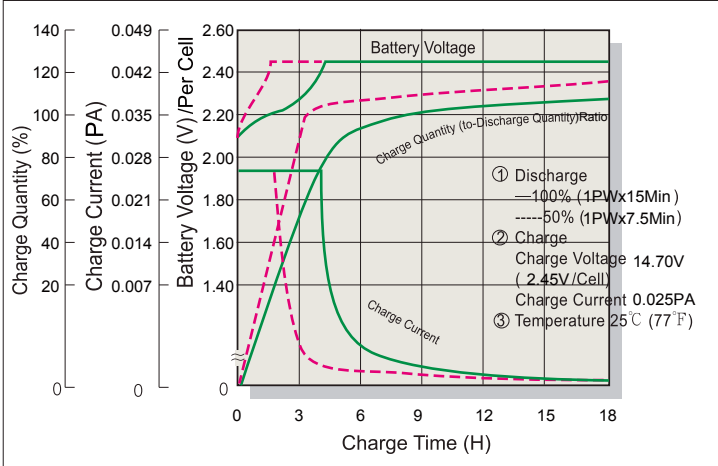
## Battery Voltage and Charge Time for Standby Use



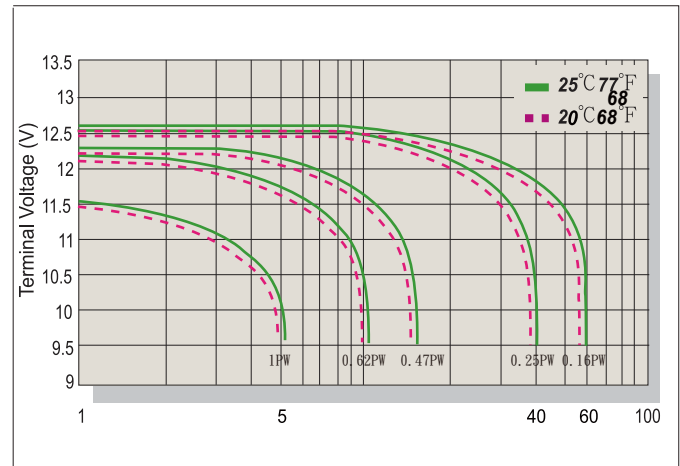
## Cycle Service Life



## 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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