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BATTERY ®

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

Cells Per Unit	6
Voltage Per Unit	12
Capacity	240W @ 5min-rate to Watt(1.60V)/pcs @25°C (77°F)
Weight	Approx. 1.45 kg(3.2 lbs)
Maximum Discharge Current	100/130A(5sec)
Internal Resistance	Approx. 32mΩ
Operating Temperature Range	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)
Nominal Operating Temperature Range	25°C±3°C (77°F±5°F)
Float Charging Voltage	13.5 to 13.8 VDC/unit Average at 25°C (77°F)
Recommended Maximum Charging Current Limit	2.0A
Equalization and Cycle Service	14.4 to 15.0 VDC/unit Average at 25°C (77°F)
Self Discharge	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.
Terminal	F1/F2-Faston Tab 180/250
Container Material	ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.

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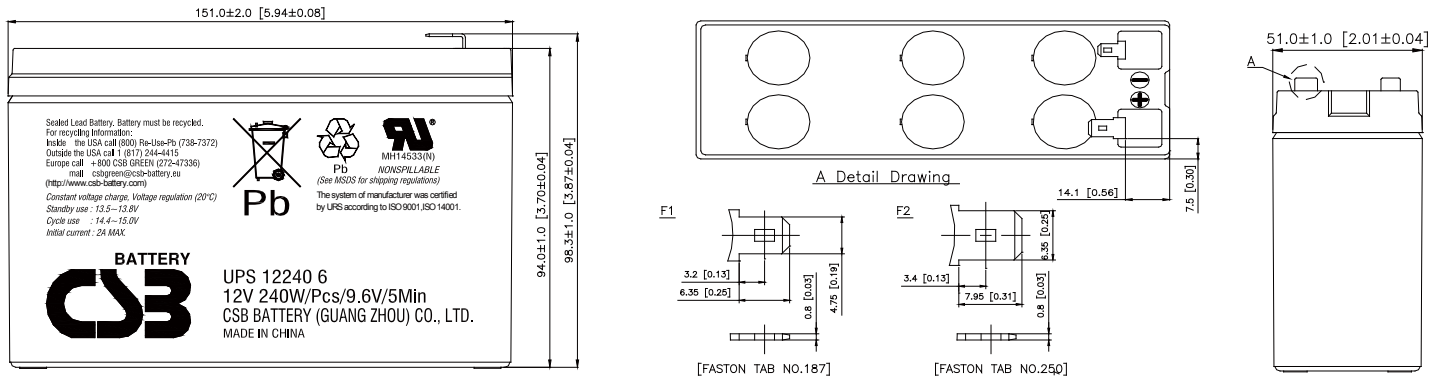
CSB-manufactured VRLA (**A**bsorbent **G**lass **M**at type) batteries are UL-recognized components under UL1989.

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±1.0 (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)

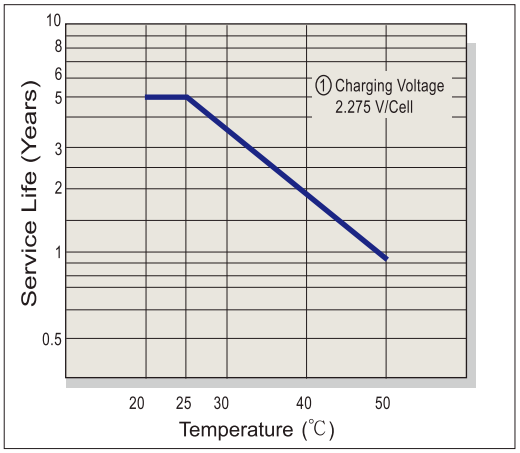
F.V/Time	2MIN	3MIN	4MIN	5MIN	6MIN	7MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	383	321	275	240	213	192	177	151	112.0	90.1	66.1	38.5	28.1
1.67V	362	306	264	233	208	189	174	149	111.0	89.7	65.7	38.4	28.0
1.70V	350	297	258	228	205	187	171	148	110.0	89.4	65.6	38.3	27.9
1.75V	324	277	243	217	196	180	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 to confirm the latest version.

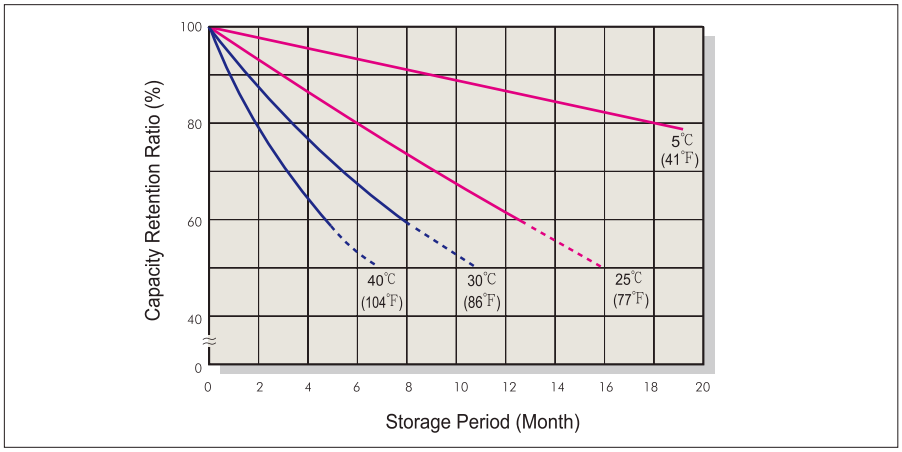
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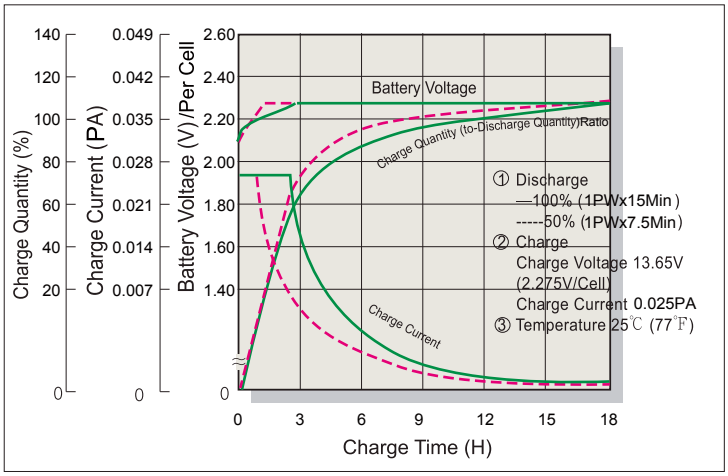
Trickle (or Float) Service Life



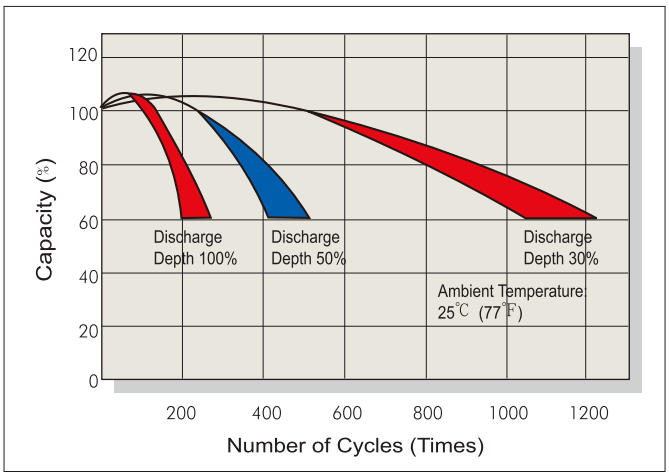
Capacity Retention Characteristic



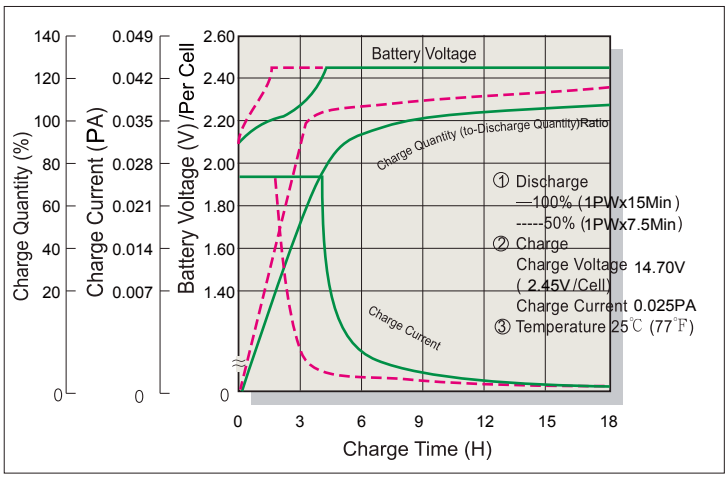
Battery Voltage and Charge Time for Standby Use



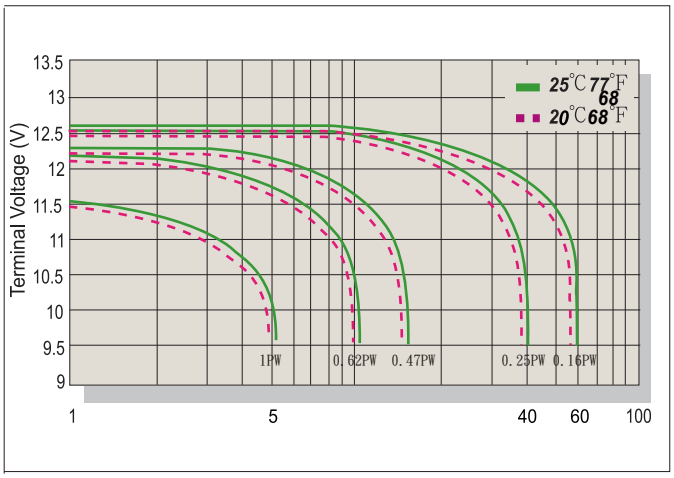
Cycle Service Life



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℃(77℉)	2.45	2.40~2.50	0.1PA
Standby	25℃(77℉)	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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