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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
<b>Capacity</b>	240W @ 5min-rate to Watt(1.60V)/pcs @25 °C(77°F) 5.0 A h @ 20hr-rate to 1.75V per pcs @25 °C(77°F)
<b>Weight</b>	Approx. 1.45 kg(3.2 lbs)
<b>Maximum Discharge Current</b>	100/130A(5sec)
<b>Internal Resistance</b>	Approx. 32m 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>	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/File E50263)*Flammability resistance of (UL 94-V0/File E88637) can be available upon request.



MH14533(N)



ISO9001  
No.:041005117



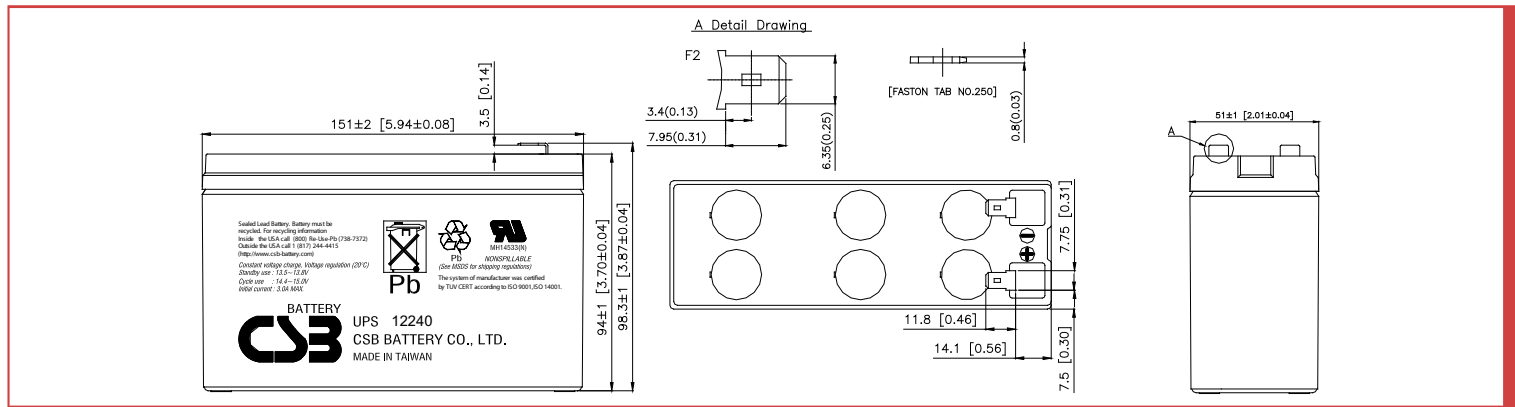
ISO 14001  
NO.UM 1-12-0045

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)
98.3±1 (3.87±0.04)	94±1 (3.7±0.04)	151±2 (5.94±0.8)	51±1 (2.01±0.04)



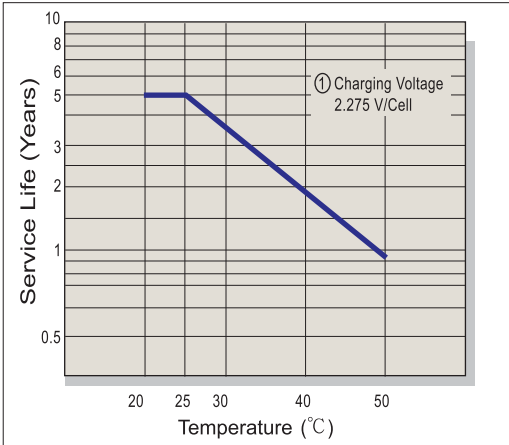
## Constant Current Discharge Characteristics Unit:A (25°C, 77°F)

F.V/Time	2MIN	3MIN	4MIN	5MIN	6MIN	7MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	40.1	31.2	25.8	23.3	20.7	18.6	16.9	14.4	10.4	8.21	5.89	3.42	2.43
1.67V	36.0	28.6	24.4	22.2	19.8	17.8	16.4	14.1	10.3	8.06	5.79	3.40	2.39
1.70V	33.7	27.4	23.6	21.3	19.0	17.2	16.0	13.9	10.2	7.94	5.74	3.39	2.36
1.75V	30.0	25.0	22.1	20.1	18.2	16.5	15.4	13.5	9.91	7.81	5.64	3.37	2.35
1.80V	26.5	22.5	20.2	18.7	17.1	15.7	14.5	12.7	9.53	7.60	5.53	3.31	2.33
1.85V	23.7	20.2	18.2	17.2	15.8	14.5	13.4	11.6	8.82	7.09	5.23	3.19	2.27

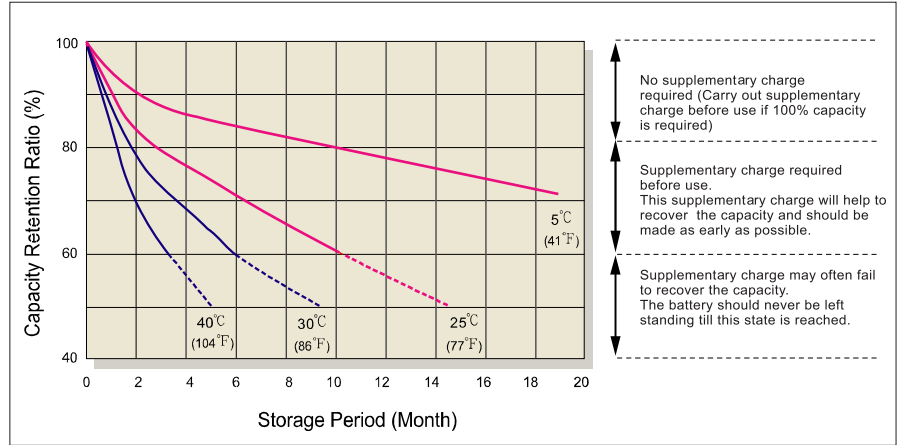
## Constant Power Discharge Characteristics Unit:W (25°C, 77°F)

F.V/Time	2MIN	3MIN	4MIN	5MIN	6MIN	7MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	386	313	273	244	218	197	179	157	115	92.6	68.2	40.6	29.2
1.67V	355	301	262	232	210	192	176	155	114	91.4	67.3	40.4	28.8
1.70V	346	289	258	228	206	188	173	153	113	90.1	66.6	40.3	28.5
1.75V	321	274	246	221	201	183	170	149	111	88.9	65.7	40.1	28.4
1.80V	290	254	229	208	190	173	160	141	108	86.9	64.5	39.6	28.3
1.85V	261	232	207	190	176	161	148	130	99.4	81.6	61.3	38.3	27.6

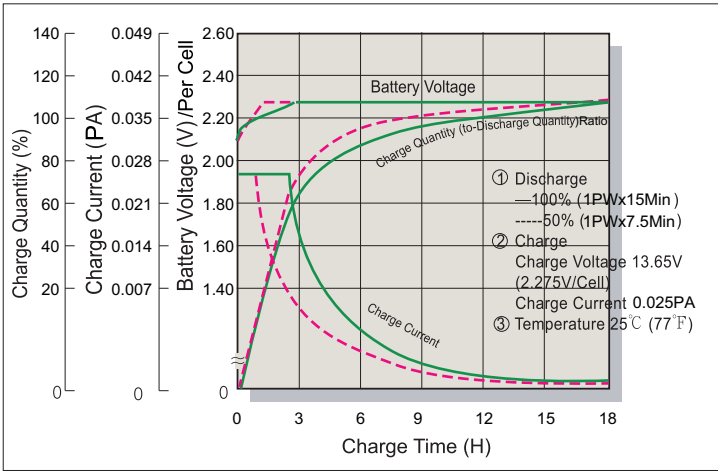
## Trickle (or Float) Service Life



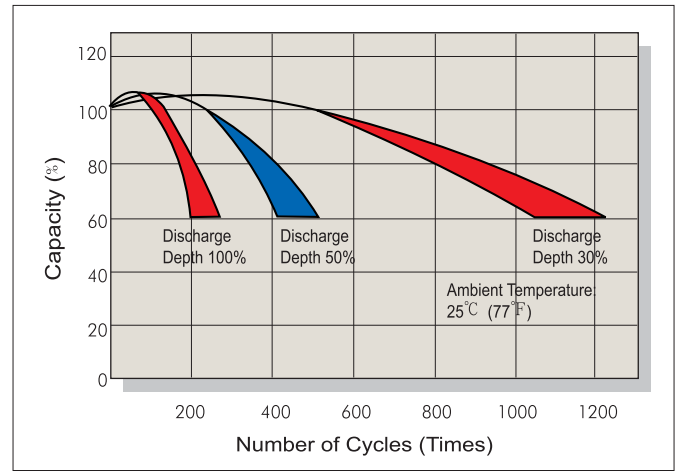
## Capacity Retention Characteristic



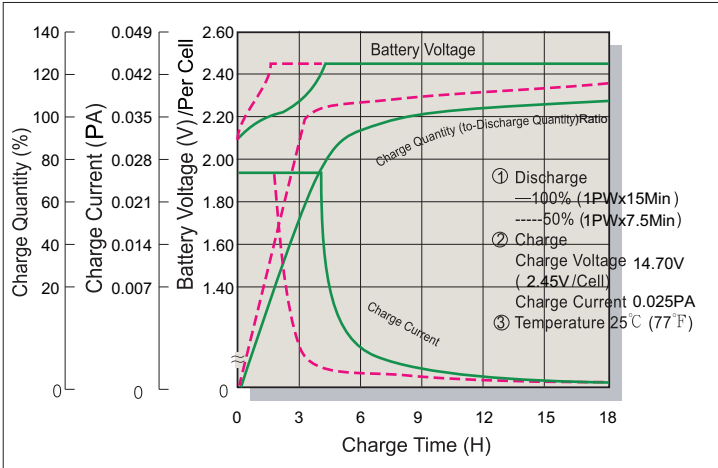
## Battery Voltage and Charge Time for Standby Use



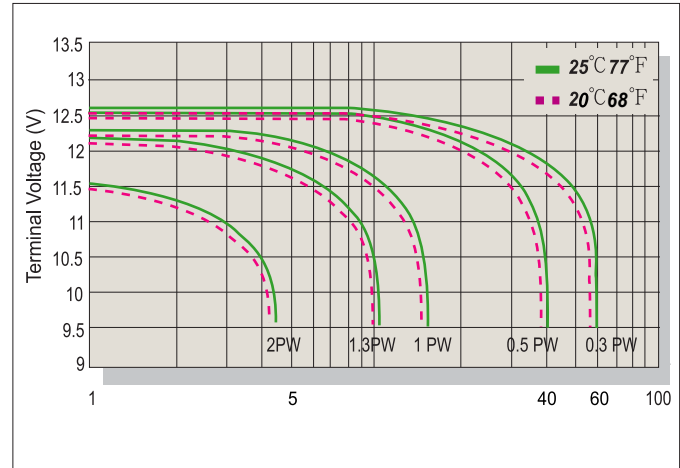
## Cycle Service Life



## 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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