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# UPS12580 ▶

UPS 12580 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
	580W @ 5min-rate to Watt(1.60V)/pcs @25 °C (77°F)
<b>Capacity</b>	
<b>Weight</b>	Approx. 2.83 kg(6.24 lbs)
<b>Maximum Discharge Current</b>	130A(5sec)
<b>Internal Resistance</b>	Approx. 12.5mΩ
<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</b>	3.76A
<b>Current Limit</b>	
<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>	F2-Faston Tab 250
<b>Container Material</b>	ABS(UL 94-HB/File E50263)*Flammability resistance of (UL 94-V0/File E56070) can be available upon request.

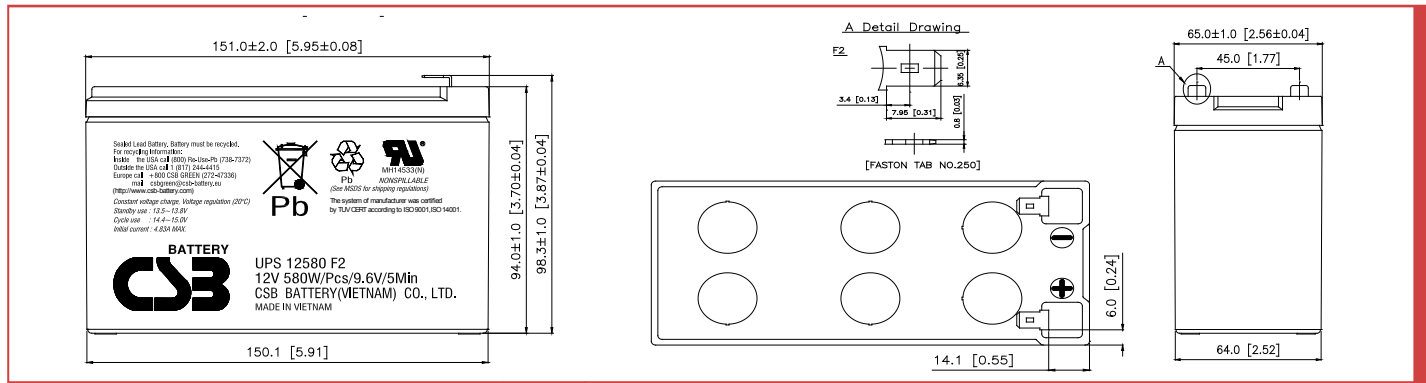


CSB-manufactured VRLA batteries are UL-recognized components under UL924 and UL1989.

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±1.0(3.87±0.04)	94.0±1.0 (3.70±0.04)	151.0±2.0 (5.95±0.08)	65.0±1.0 (2.56±0.04)



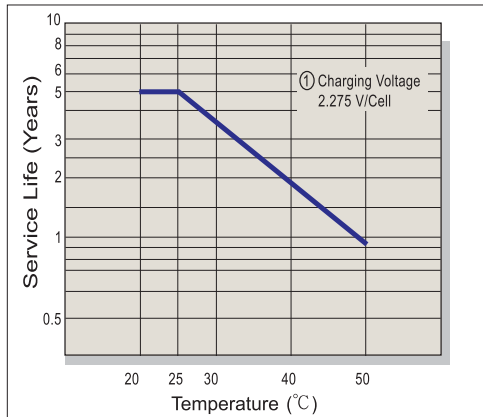
## Constant Current Discharge Characteristics Unit:A (25°C ,77°F)

F.V/Time	2MIN	3MIN	4MIN	5MIN	6MIN	7MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	95.1	75.5	63.4	54.1	47.2	42.3	38.5	32.3	23.0	18.3	13.2	7.42	5.31
1.67V	85.3	71.0	60.2	51.7	45.6	41.2	37.6	31.7	22.7	18.1	13.0	7.33	5.20
1.70V	81.1	68.3	58.4	50.4	44.6	40.4	37.1	31.3	22.7	18.0	12.9	7.24	5.17
1.75V	73.6	62.6	53.7	47.2	42.2	38.5	35.6	30.1	22.1	17.5	12.7	7.11	5.03
1.80V	66.1	56.8	48.8	43.2	39.3	36.3	33.2	28.4	21.1	16.9	12.4	6.92	4.91
1.85V	59.4	49.7	43.5	39.3	36.3	32.9	30.3	26.1	19.6	15.8	11.7	6.61	4.70

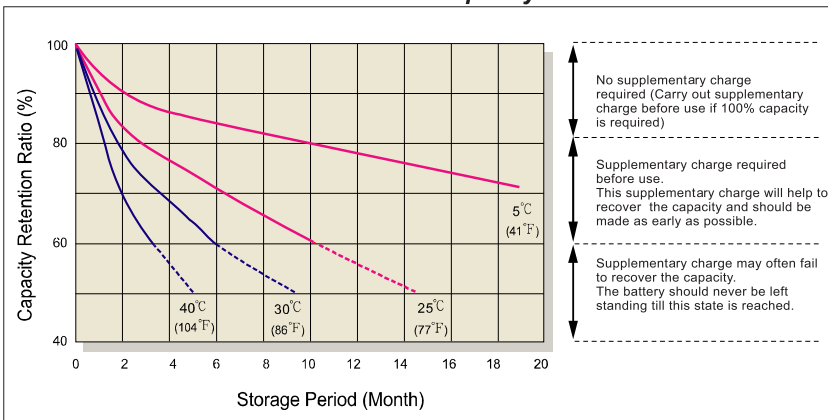
## Constant Power Discharge Characteristics Unit:W (25°C ,77°F)

F.V/Time	2MIN	3MIN	4MIN	5MIN	6MIN	7MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	908	774	663	580	516	469	427	361	261	208	150	84.2	59.3
1.67V	877	748	643	565	504	462	420	356	261	206	149	84.0	58.9
1.70V	859	730	630	556	499	453	414	353	258	206	149	83.6	58.8
1.75V	808	688	601	538	481	441	402	343	254	203	148	83.1	58.4
1.80V	750	640	568	505	458	419	383	329	245	197	145	81.7	57.6
1.85V	674	586	514	463	424	384	352	305	229	186	138	78.9	55.6

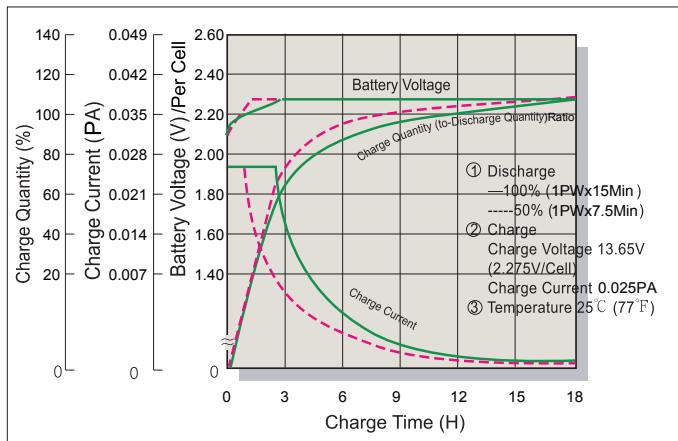
## Trickle (or Float) Service Life



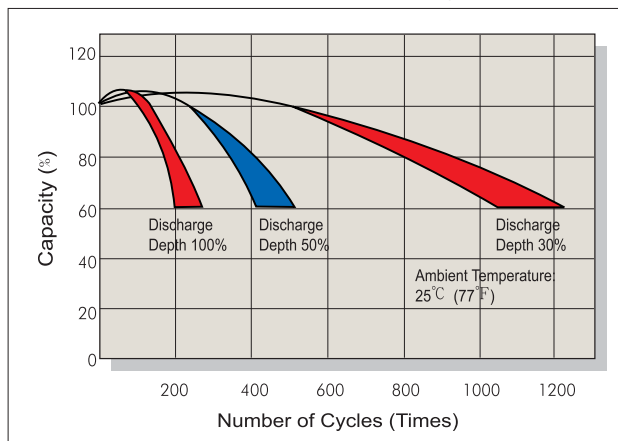
## Capacity Retention Characteristic



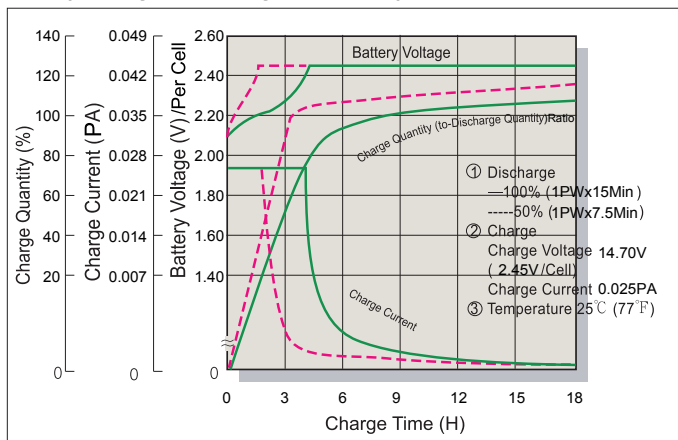
## Battery Voltage and Charge Time for Standby Use



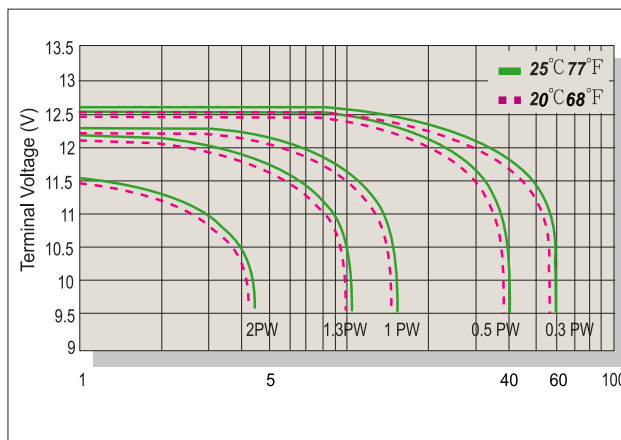
## Cycle Service Life



## 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	

## 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

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

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