UPLUS
NEW TECHNOLOGY BATTERY

☐ Telecom Battery
■ UPS Battery
☐ Renewable Energy Battery

Long Life Standby AGM Battery - USL Series

USL2-600(2V600AH)

Application

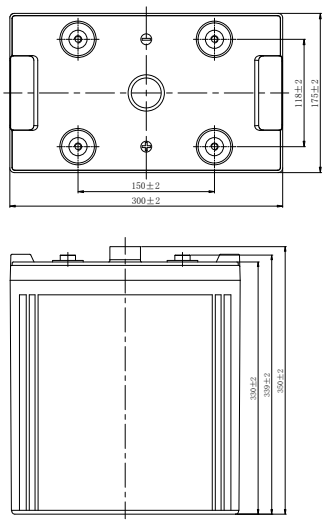
- Data Center
- Telecommunication center room
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Emergency light
- Railway signal
- Aircraft signal
- Alarm and security system
- Electronic apparatus and equipment

Features

- General purpose:9～14 years design life
- VRLA Battery, maintenance-free
- Low self-discharge rate
- Silver-coated copper terminals
- PbCaSn alloy for plate grids:
  less gassing, less self-discharge
- ABS container, Flame retardant UL94-V0

Layout

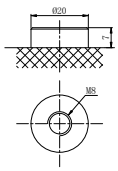
Unit: mm

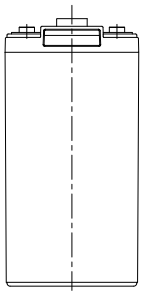


Terminal

M8 Terminal

Unit: mm [inches]





ISO/TS16949 ISO9001 ISO14001

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USL2-600(2V600AH)

Specification

Nomial Voltage	12V	
Rated Capacity (Ah)	636.0 AH/31.8A	(20hr ,1.80V/cell,25°C/77°F)
	600.0 AH/60.0A	(10hr,1.80V/cell,25°C/77°F)
	525.0 AH/105.0A	(5hr,1.75V/cell,25°C/77°F)
	468.0AH/156.0A	(3hr,1.75V/cell,25°C/77°F)
	368.1AH/386.1A	(1hr,1.60V/cell,25°C/77°F)
Dimension	Length	300±2mm (11.81 inches)
	Width	175±2mm (6.89 inches)
	Container Height	330±2mm (12.99 inches)
	Total Height (with Terminal)	350±2mm (13.78 inches)
Approx Weight	Approx 37.0 kg (81.6 lbs)	
Terminal	M8	
Container Material	ABS	
Max. Discharge Current	4800A (5s)	
Internal Resistance	Approx 0.4mΩ	
Operating Temp.Range	Discharge : -15～50℃ Charge : 0～40℃ Storage : -15～40℃	
Capacity affected by Temperature	40℃	106%
	25℃	100%
	0℃	86%
Self Discharge	USL series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

VdS | Intertek ETL SEMKO MH26866 | CEC ISO14001 | ISO9001 | CE EMC tested

Performance - 25 ℃

Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	417.6	275.1	240.8	153.8	117.0	94.1	79.4	69.0	56.0	46.9	25.1
1.80V/cell	472.1	307.7	266.5	167.4	126.6	101.5	85.6	74.0	60.0	50.0	26.5
1.75V/cell	493.5	320.2	276.4	172.5	130.0	104.0	87.5	75.5	61.1	50.8	26.8
1.70V/cell	526.9	332.3	286.5	178.0	133.8	106.6	89.5	77.1	62.2	51.6	27.2
1.65V/cell	563.3	339.8	292.5	181.0	135.8	108.1	90.6	78.1	62.8	52.0	27.4
1.60V/cell	569.8	357.3	306.7	188.5	140.8	111.7	93.4	80.2	64.3	53.1	27.9

Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	807.1	640.2	561.7	360.8	275.3	222.0	187.6	163.1	132.9	111.3	59.9
1.80V/cell	904.9	710.6	617.5	390.5	296.7	238.4	201.5	174.5	142.0	118.6	63.2
1.75V/cell	937.7	733.8	635.8	400.3	303.3	243.5	205.4	177.7	144.3	120.2	63.9
1.70V/cell	992.2	755.7	654.6	410.9	310.7	248.7	209.5	181.1	146.5	121.9	64.7
1.65V/cell	1050.6	768.8	665.0	416.3	314.5	251.6	211.7	182.9	147.9	122.8	65.1
1.60V/cell	1053.5	800.0	690.8	430.5	324.2	258.6	217.2	187.3	150.9	125.1	66.2

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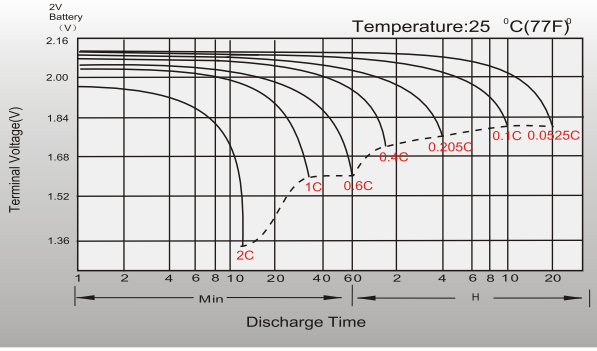
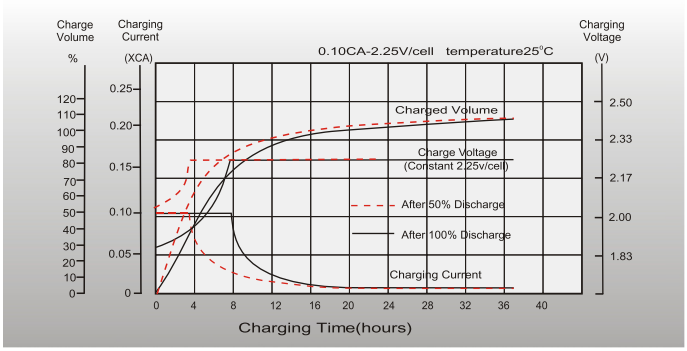
Characteristic Curve

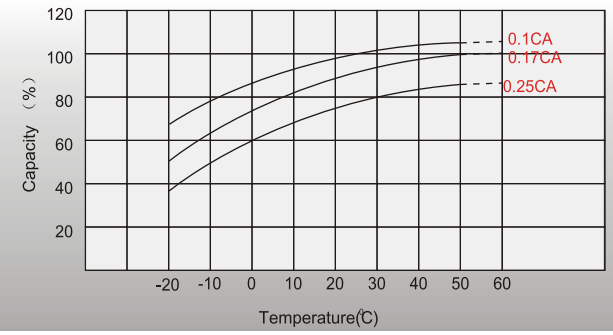
Discharge Characteristics



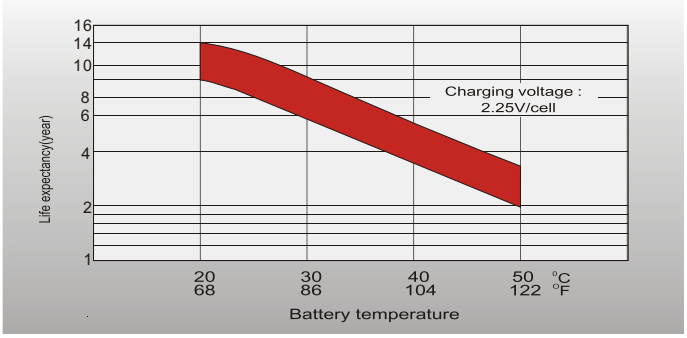
Float Charging Characteristics



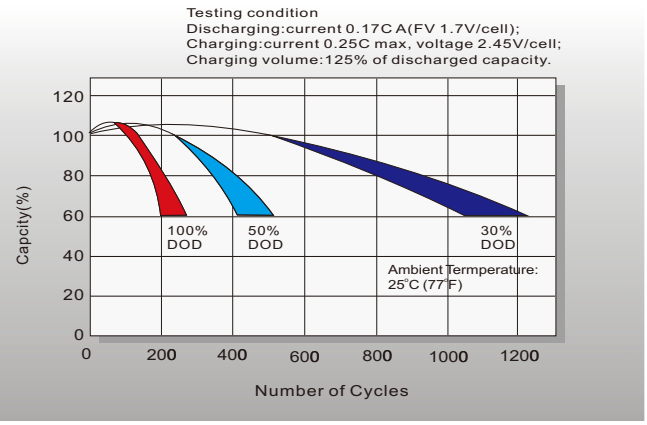
Temperature Effects in Relation to Battery Capacity



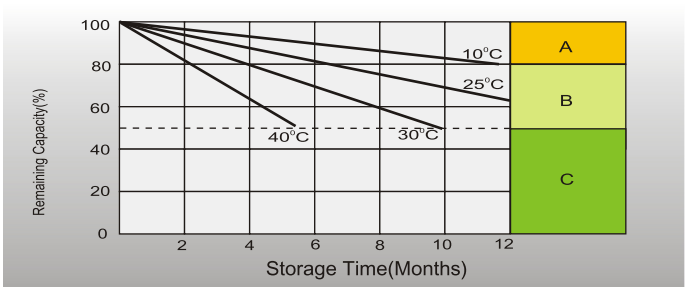
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



A No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

B Supplementary charge required before use.Optional charging way as below:
1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

C Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.