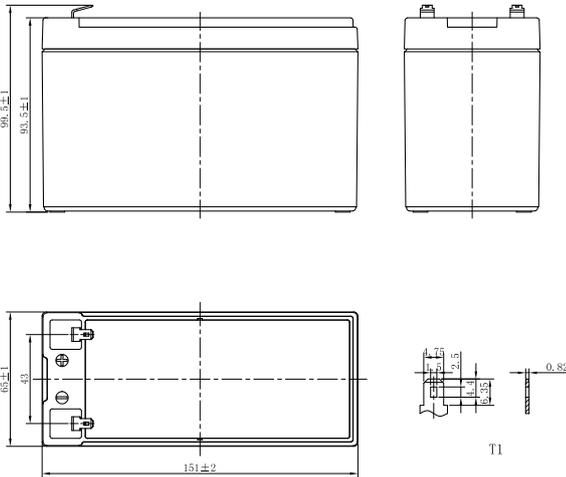


USL SERIES-LONG LIFE STANDBY

USL12-7.2 (12V7.2Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C ₂₀ , 1.75V/cell	7.2Ah
Dimension	Length	151mm (5.94inches)
	Width	65mm (2.56inches)
	Container Height	93.5mm (3.68inches)
	Total Height	99.5mm (3.92inches)
Approx Weight	2.50kg (5.51lbs)	
Terminal	T1/T2	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	201.6A	
Internal Resistance (25°C)	Approx 20 mΩ (Fully charged)	
Operating Temp. Range	Discharge	-15~50°C (5~122°F)
	Charge	-20~40°C (-4~104°F)
	Storage	-15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max.Charging Current (25°C)	0.3C	
Charge voltage (25°C)	Standby Use	Cycle Use
	2.25-2.30V/cell	2.35-2.45V/cell
Temp. Coefficient	-3mV/cell/°C	
	-5mV/cell/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤3% per month at 25°C (77°F). USL series batteries may be stored 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.	

DISCHARGE TABLE

Constant Current Discharge (Amperes) at 25°C (77°F)																
F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	26.5	18.2	13.9	11.3	8.27	5.98	4.84	3.49	2.69	1.90	1.48	1.23	1.04	0.814	0.665	0.352
1.80V/cell	28.4	19.3	14.6	11.7	8.52	6.14	4.96	3.56	2.75	1.94	1.50	1.25	1.05	0.825	0.674	0.356
1.75V/cell	30.0	20.0	15.0	12.0	8.75	6.27	5.07	3.63	2.80	1.96	1.52	1.26	1.06	0.834	0.681	0.360
1.70V/cell	31.4	20.8	15.6	12.3	9.00	6.42	5.16	3.69	2.84	1.99	1.54	1.28	1.07	0.843	0.688	0.363
1.67V/cell	32.5	21.4	15.9	12.6	9.09	6.52	5.24	3.74	2.87	2.01	1.56	1.29	1.08	0.850	0.693	0.365
1.60V/cell	34.5	22.3	16.5	13.0	9.36	6.68	5.36	3.82	2.93	2.05	1.58	1.31	1.10	0.861	0.702	0.370

Constant Power Discharge (Watts/cell) at 25°C (77°F)																
F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	50.1	34.6	26.6	21.6	16.0	11.6	9.45	6.81	5.27	3.74	2.92	2.43	2.04	1.61	1.32	0.704
1.80V/cell	53.4	36.4	27.7	22.4	16.4	11.9	9.63	6.94	5.36	3.79	2.95	2.46	2.07	1.64	1.34	0.712
1.75V/cell	55.6	37.5	28.4	22.9	16.7	12.1	9.81	7.04	5.45	3.84	2.99	2.48	2.10	1.66	1.35	0.720
1.70V/cell	57.7	38.8	29.3	23.4	17.1	12.3	9.90	7.15	5.51	3.89	3.02	2.52	2.12	1.67	1.37	0.726
1.67V/cell	59.1	39.7	29.9	23.9	17.4	12.5	10.1	7.22	5.56	3.92	3.05	2.54	2.13	1.68	1.38	0.732
1.60V/cell	61.6	40.9	30.7	24.5	17.7	12.7	10.3	7.34	5.65	3.99	3.10	2.57	2.16	1.70	1.39	0.740

USL SERIES-LONG LIFE STANDBY

USL12-7.2 (12V7.2Ah)

APPLICATIONS

- UPS and EPS
- Emergency light
- Railway signal and aircraft signal system
- Marine and power stations
- Alarm and security system
- Electronic apparatus and equipment
- Communication power supply, DC power supply

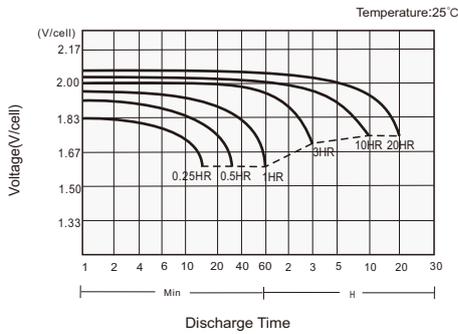
GENERAL FEATURES

- 10~12 years design life (25°C)
- Lead calcium alloy, sealed design, no watering required
- Puncture resistant micro-porous glass mat separators extend life
- Unique technology optimizes power capacity, cell consistency, and long-term reliability
- Designed for a wide range of applications

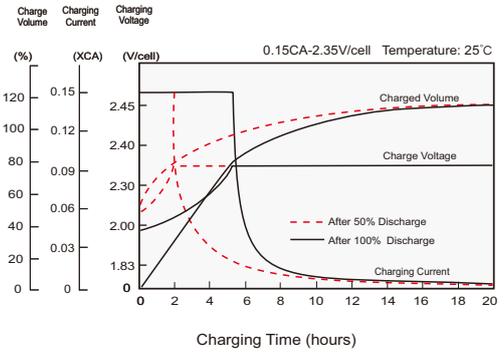
STANDARDS

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Approved

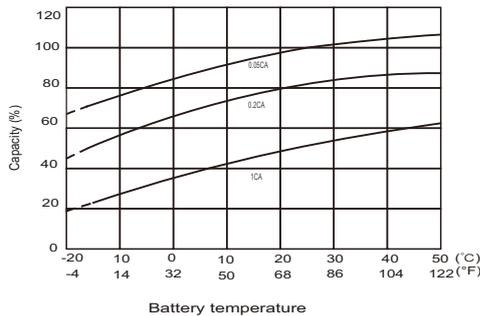
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

