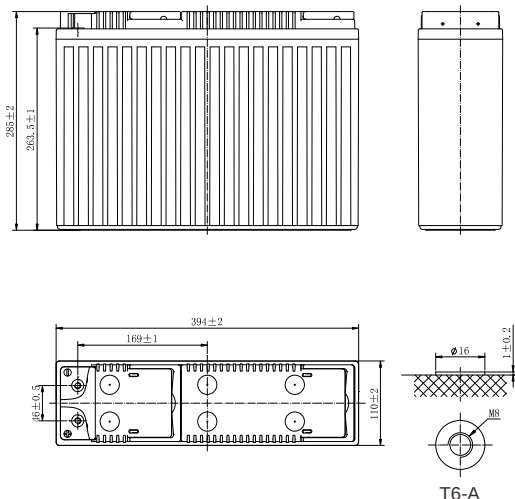


USF SERIES-FRONT TERMINAL

USF12-100H (12V100Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C ₁₀ , 1.80V/cell	100Ah
Dimension	Length	394mm (15.5inches)
	Width	110mm (4.33inches)
	Container Height	285mm (11.2inches)
	Total Height	285mm (11.2inches)
Approx Weight	34.5kg (76.1lbs)	
Terminal	T6-A(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	1900A	
Internal Resistance (25°C)	Approx 5.5 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	2.35-2.40V/cell
Temp. Coefficient	-3mV/cell/°C	-5mV/cell/°C
	40°C (104°F)	103%
Effect of temp. to Capacity	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤3% per month at 25°C (77°F). USF 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	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	128.1	82.7	52.2	31.3	23.6	18.8	15.7	11.1	9.32	4.91
1.80V/cell	149.0	93.6	57.7	34.1	25.6	20.3	16.9	11.9	10.0	5.27
1.75V/cell	157.6	97.8	59.9	35.1	26.2	20.8	17.3	12.1	10.1	5.29
1.70V/cell	166.6	102.1	62.1	36.2	27.0	21.3	17.7	12.3	10.2	5.38
1.67V/cell	171.8	104.7	63.4	36.8	27.4	21.6	17.9	12.4	10.4	5.48
1.60V/cell	184.1	110.6	66.4	38.4	28.4	22.3	18.5	12.7	10.6	5.58
Constant Power Discharge (Watts/cell) at 25°C (77°F)										
F.V/Time	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	246.1	159.9	101.4	61.2	46.3	37.0	31.0	21.9	18.4	9.89
1.80V/cell	283.2	179.3	111.5	66.3	49.9	39.7	33.2	23.4	19.6	10.4
1.75V/cell	296.5	185.8	114.8	67.9	51.0	40.6	33.9	23.8	19.8	10.5
1.70V/cell	309.8	192.2	118.2	69.7	52.3	41.4	34.6	24.2	20.1	10.7
1.67V/cell	317.8	196.0	120.0	70.6	52.9	41.9	34.9	24.4	20.3	10.7
1.60V/cell	334.3	204.5	124.7	73.0	54.5	43.1	35.8	24.9	20.6	10.9

USF SERIES-FRONT TERMINAL

USF12-100H (12V100Ah)

APPLICATIONS

- For standard power cabinet
- Network connection equipment of communication system
- Power system of special network of local area network
- Power station systems
- UPS

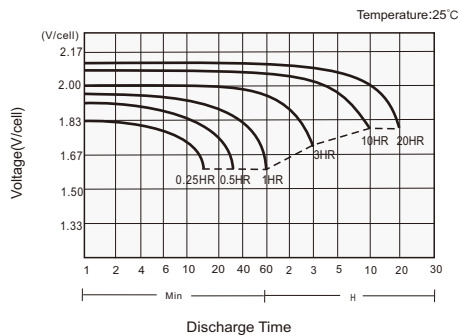
GENERAL FEATURES

- 12+ years design life (25°C)
- Puncture resistant micro-porous glass mat separators extend life
- Flame-arresting, one-way pressure-relief vent for safety and long life
- Front access design for easy installation and maintenance
- Epoxy-sealed posts eliminate leaks

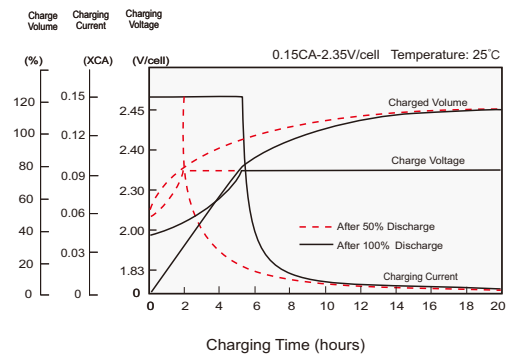
STANDARDS

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

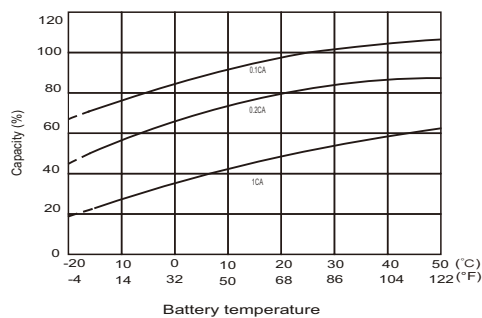
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

