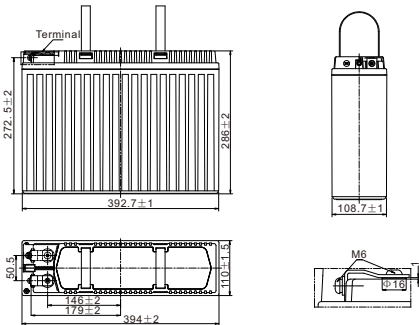


Applications

- ◆ Tele-communication central station
- ◆ Power system communication, military communication, etc.
- ◆ Network communication including: data transmission, television signal transmission, etc.
- ◆ Uninterruptable Power System (UPS for Telecom)



Specification

Nominal Voltage	12V	
Nominal Capacity(10HR)	100Ah	
Dimension	Length	394mm (15.51 in.)
	Width	110mm (4.33 in.)
	Container Height	286mm (11.26 in.)
	Total Height (with Terminal)	286mm (11.26 in.)
Approx Weight	31.5Kg (69.45 lbs)	
Terminal	M6	
Container Material	ABS(High Temperature Resistant Material)	
Rated Capacity(35°C)	C20(5.25A, 1.80V/cell)	104.0 Ah
	C10(10.0A, 1.80V/cell)	100.0 Ah
	C5(17.5A, 1.75V/cell)	87.5 Ah
	C3(26.5A, 1.75V/cell)	79.5 Ah
	C1(64.0A, 1.67V/cell)	64.0 Ah
Max. Discharge Current	800A (5s)	
Internal Resistance	Approx 8mΩ	
Operating Temp.Range	The battery could use at -40°C~+65°C and extreme temperature can be up to 80°C.	
Cycle Use (35°C)	Charging Current	≤25A
	Charging Voltage	14.1V~14.4V
Standby Use (35°C)	Charging Current	≤25A
	Charging Voltage	13.5V
	Temp. Coefficient	-3mV/cell/°C
Capacity affected by Temperature	40°C (104°F)	103%
	35°C (95°F)	100%
	0°C (32°F)	79%
Monthly Self Discharge	≤3% per month at 25°C	

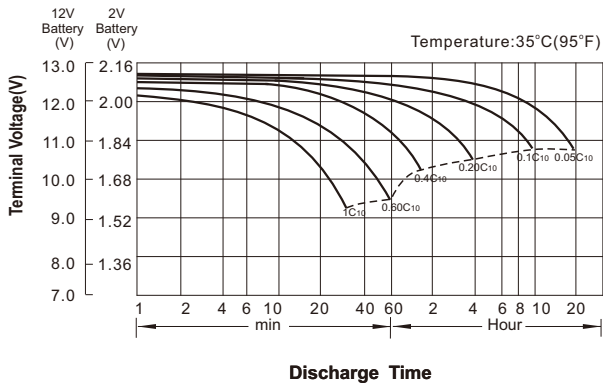
Constant Current Discharge (Amperes) at 35 °C (95°F)

F. V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	155.4	129.4	108.7	83.6	62.4	52.7	31.6	23.9	19.0	15.9	13.8	11.2	9.37	5.02
1.80V/cell	183.2	150.5	125.3	94.5	69.7	58.3	34.4	25.8	20.5	17.1	14.8	12.0	10.0	5.25
1.75V/cell	196.4	159.2	131.5	98.8	72.6	60.5	35.5	26.5	21.0	17.5	15.1	12.2	10.2	5.32
1.70V/cell	209.5	168.2	138.4	103.1	75.3	62.7	36.6	27.3	21.5	17.9	15.4	12.4	10.3	5.39
1.67V/cell	217.2	173.5	142.3	105.7	77.0	64.0	37.2	27.7	21.8	18.1	15.6	12.6	10.4	5.46
1.60V/cell	235.0	186.0	151.5	111.7	81.0	67.1	38.8	28.7	22.6	18.7	16.0	12.9	10.6	5.57

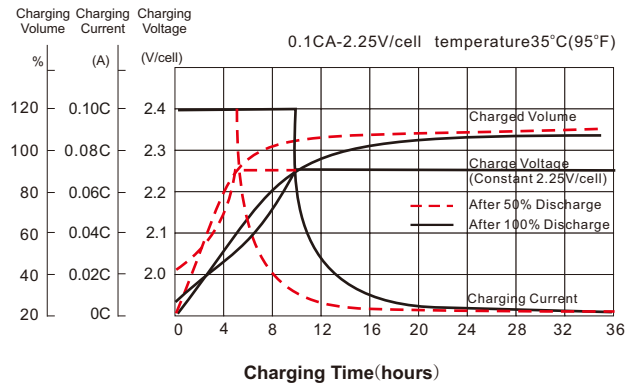
Constant Power Discharge (Watts/cell) at 35 °C (95°F)

F. V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	297.4	248.6	209.5	161.5	120.9	102.4	61.8	46.8	37.4	31.3	27.2	22.1	18.5	10.0
1.80V/cell	346.5	286.1	239.1	181.1	134.2	112.6	66.9	50.4	40.1	33.6	29.1	23.7	19.8	10.5
1.75V/cell	367.0	299.5	248.5	187.7	138.6	115.9	68.6	51.5	41.0	34.2	29.6	24.0	20.0	10.7
1.70V/cell	386.3	313.0	258.9	194.2	142.8	119.4	70.4	52.8	41.9	34.9	30.2	24.4	20.3	10.8
1.67V/cell	397.3	323.6	264.5	198.0	145.2	121.3	71.3	53.4	42.3	35.3	30.5	24.6	20.5	10.9
1.60V/cell	421.2	337.7	277.2	206.5	151.1	126.0	73.8	55.1	43.5	36.2	31.2	25.1	20.9	11.0

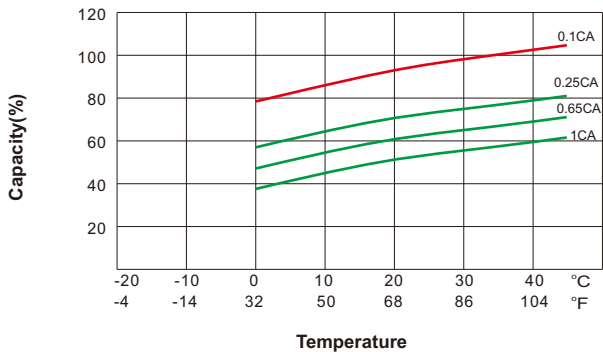
Discharge Characteristics



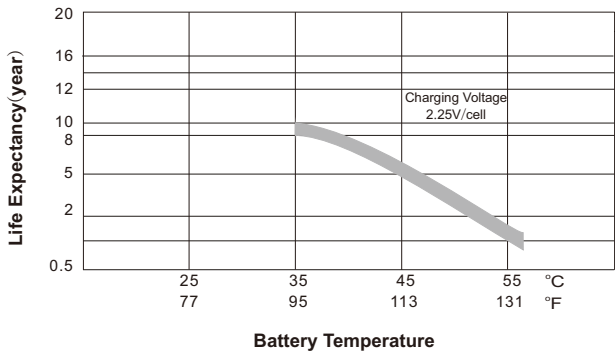
Float Charging Characteristics



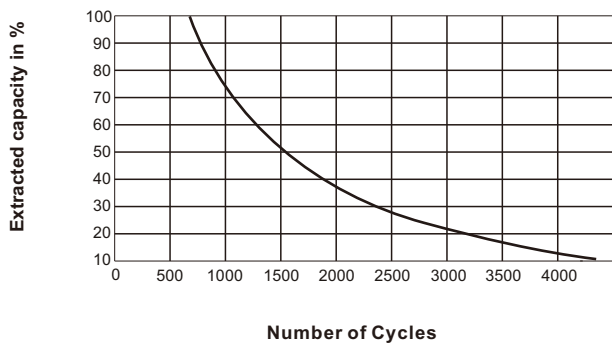
Temperature Effects in Relation to Battery Capacity



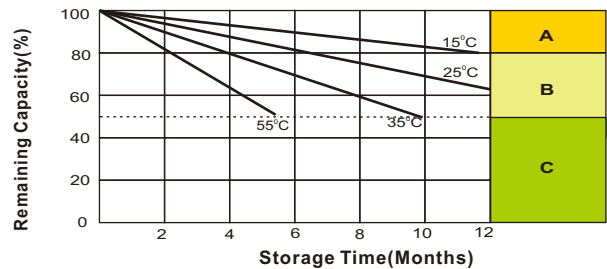
Effect of Temperature on Long Term Float Life



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 limited current 0.25CA and constant voltage 2.25V/cell.
 2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
 3. Charged for 8-10 hours at limited current 0.05CA.
- C** Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this is reached.

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