

### UFT100-12S

Awaiting Image

### Physical Specification

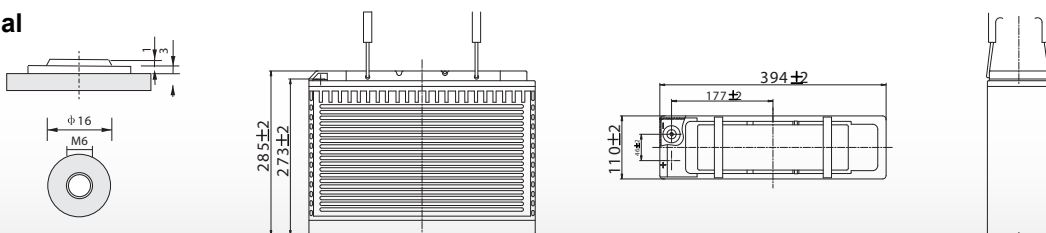
Part Number:	<b>UFT100-12S</b>
Length:	<b>394 ± 3 mm (22.20 inches)</b>
Width:	<b>110 ± 3 mm (4.49 inches)</b>
Container Height:	<b>285 ± 3 mm (7.36 inches)</b>
Total Height (with terminal):	<b>285 ± 3 mm (7.36 inches)</b>
Approx Weight:	<b>Approx 34.5 Kg (78.5 lbs)</b>

### Specifications

	Nominal Voltage	12V
	Nominal Capacity (8HR)	100AH
Terminal Type	Standard Terminal	F6
	Optional Terminal	-
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity	110.0 AH/5.50A	(20hr, 1.80V/cell, 25°C / 77°F)
	103.8 AH/103.8A	(10hr, 1.80V/cell, 25°C / 77°F)
	100.0 AH/12.5A	(5hr, 1.75V/cell, 25°C / 77°F)
	94.5 AH/18.9A	(3hr, 1.75V/cell, 25°C / 77°F)
	69.2 AH/69.2A	(1hr, 1.60V/cell, 25°C / 77°F)
Max Discharge Current	1000A (5s)	
Internal Resistance	Approx 4.3mΩ	
Discharge Characteristics	Operating Temp. Range	Discharge: -15 ~ 50°C (5 ~ 122°F)
		Charge: 0 ~ 40°C (32 ~ 104°F)
		Storage: -15 ~ 40°C (5 ~ 104°F)
	Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)
	Cycle Use	Initial Charging Current less than 30.0A. Voltage 14.4V ~ 15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C
	Standby Use	No limit on Initial Charging Current Voltage 13.5V ~ 13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C
	Capacity affected by Temperature	40°C (104°F)
25°C (77°F)		100%
0°C (32°F)		86%
Design Floating Life at 20°C	12+ Years	
Self Discharge	Ultracell batteries may be stored for up to 6 months at 25°C(77°F) and then a refresh charge is required. For higher temperatures the time interval will be shorter.	

### Dimensions

#### F6 Terminal



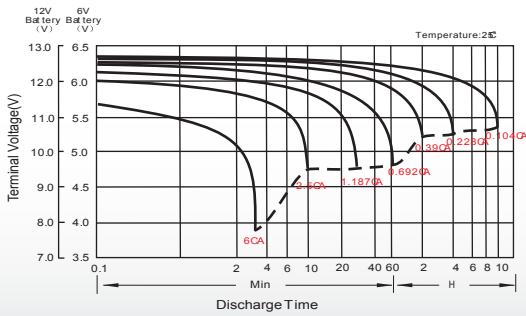
## Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/ Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	1739	1450	1244	976	757	615	367	264	212	176	153	11.90	9.92	5.26
1.80V/cell	1972	1616	1377	1068	814	657	387	281	223	185	161	12.50	10.38	5.50
1.75V/cell	2164	1749	1469	1122	845	680	394	286	229	189	163	12.70	10.49	5.58
1.70V/cell	2315	1842	1529	1155	865	689	400	288	230	190	165	12.80	10.56	5.62
1.67V/cell	2395	1888	1560	1170	868	692	401	289	231	191	166	12.90	10.65	5.65
1.60V/cell	2518	1960	1630	1199	891	710	408	293	234	193	167	12.98	10.80	5.68

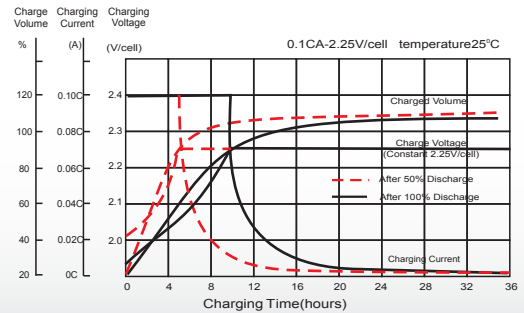
## Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/ Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	3248	2734	2370	1879	1470	1199	720	520	419	348	303	237	198	10.52
1.80V/cell	3639	3007	2585	2025	1569	1273	754	550	438	364	317	249	207	10.98
1.75V/cell	3930	3214	2733	2111	1614	1312	766	557	448	371	321	252	209	11.14
1.70V/cell	4110	3339	2822	2161	1645	1325	775	562	450	372	325	254	210	11.21
1.67V/cell	4236	3408	2868	2184	1645	1328	776	561	451	373	326	255	212	11.25
1.60V/cell	4330	3469	2954	2210	1670	1349	782	565	454	376	327	256	214	11.30

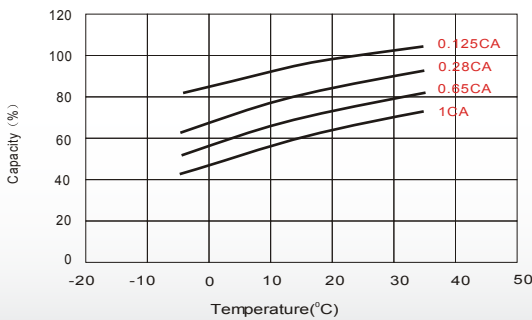
### Discharge Characteristics



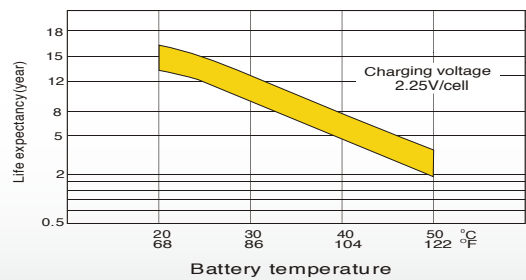
### Float Charging Characteristics



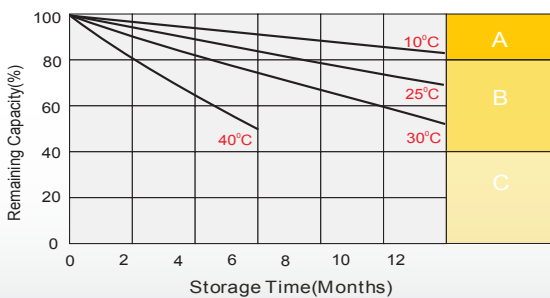
### Temperature Effects in Relation to Battery Capacity



### Effect of Temperature on Long Term Float Life



### Self Discharge Characteristics



**A**

No supplementary required  
(Carryout 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 2.25V/cell.  
 3. Charged for 8 ~ 10 hours at limited current 0.05 CA.

**C**

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