



# Product Data Sheet

## IM Series: IM-12750U(UT-12750U)

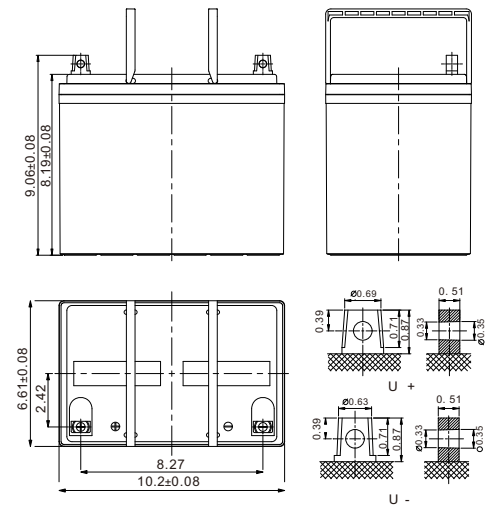
### 12 Volt, 75.0 Amp. Hour

#### Specifications

Rated Voltage	12V						
Nominal Capacity	75.0Ah	(C <sub>20</sub> , 1.75V/cell, 20hrs)					
Dimensions	Length	10.2 inches (260mm)					
	Width	6.61 inches (168mm)					
	Container Height	8.19 inches (208mm)					
	Total Height	9.06 inches (230mm)					
Approx Weight	50.05 lbs (22.7 Kg)						
Terminal	U						
Container Material	ABS						
Rated Capacity (25°C)	75.0 Ah	(20hr, 3.75A, 1.75V/cell)					
	73.7 Ah	(10hr, 7.37A, 1.75V/cell)					
	67.5 Ah	(5hr, 13.5A, 1.75V/cell)					
	61.5 Ah	(3hr, 20.5A, 1.75V/cell)					
	47.3 Ah	(1hr, 47.3A, 1.60V/cell)					
Max. Discharge Current	750A (5s)						
Internal Resistance (25°C)	Approx 7.5mΩ						
Operating Temp. Range	Discharge	5 ~ 122°F (-15 ~ 50°C)					
	Charge	-4 ~ 104°F (-20 ~ 40°C)					
	Storage	5 ~ 104°F (-15 ~ 40°C)					
Nominal Operating Temp. Range	77±5°F (25±3°C)						
Standby/Float Use	Initial Charging Current less than 22.5A. Voltage 13.5V~13.8V at 77°F(25°C)Temp. Coefficient -10mV/°F						
	Temperature Effect on Capacity	<table border="1"> <tr> <td>104°F (40°C)</td> <td>103%</td> </tr> <tr> <td>77°F (25°C)</td> <td>100%</td> </tr> <tr> <td>32°F (0°C)</td> <td>86%</td> </tr> </table>	104°F (40°C)	103%	77°F (25°C)	100%	32°F (0°C)
104°F (40°C)	103%						
77°F (25°C)	100%						
32°F (0°C)	86%						
Self Discharge	<p>IM series batteries may be stored for up to 6 months at 77°F(25°C) and then a freshening charge is required. For higher temperatures - time interval will be shorter.</p>						



#### Layout



#### 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	109.8	95.2	74.9	67.0	49.0	41.5	25.3	18.5	14.5	12.6	11.1	8.56	6.95	3.57
1.80V/cell	124.7	107.9	84.7	72.9	51.9	43.0	26.1	20.1	15.5	13.3	12.0	9.00	7.35	3.71
1.75V/cell	135.2	116.8	91.4	74.4	53.8	45.1	27.5	20.5	15.8	13.5	12.0	9.05	7.37	3.75
1.70V/cell	144.2	124.1	96.9	75.9	54.8	46.0	28.0	20.9	16.1	13.7	12.1	9.19	7.42	3.78
1.65V/cell	148.7	127.7	99.6	77.0	55.6	46.7	28.4	21.1	16.3	14.0	12.2	9.32	7.52	3.83
1.60V/cell	153.8	131.7	102.1	78.1	56.4	47.3	28.8	21.3	16.5	14.2	12.2	9.44	7.60	3.87

C.O.V - Cutoff Voltage/cell. The battery is fully charged & being discharged to COV

#### Constant Power Discharge (Watts/cell) 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	206.7	180.3	142.5	128.0	94.2	80.2	49.2	36.2	28.5	24.9	22.0	17.0	13.8	7.12
1.80V/cell	231.2	201.7	159.4	138.2	99.1	82.6	50.5	39.1	30.3	26.0	23.5	17.8	14.4	7.36
1.75V/cell	246.7	215.3	170.1	140.0	102.1	86.3	53.0	39.8	30.8	26.4	23.6	17.9	14.6	7.43
1.70V/cell	259.4	226.3	178.8	141.6	103.4	87.6	53.8	40.4	31.2	26.8	23.7	18.1	14.7	7.50
1.65V/cell	263.6	230.0	181.7	142.6	104.3	88.4	54.4	40.6	31.6	27.2	23.8	18.3	14.9	7.58
1.60V/cell	267.3	233.2	184.2	143.2	104.8	89.0	54.8	40.8	31.8	27.5	23.7	18.5	15.0	7.66

C.O.V - Cutoff Voltage/cell. The battery is fully charged & being discharged to COV



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## IM Series: IM-12750U(UT-12750U)

### 12 Volt, 75.0 Amp. Hour

#### Applications

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto control system

#### General Features

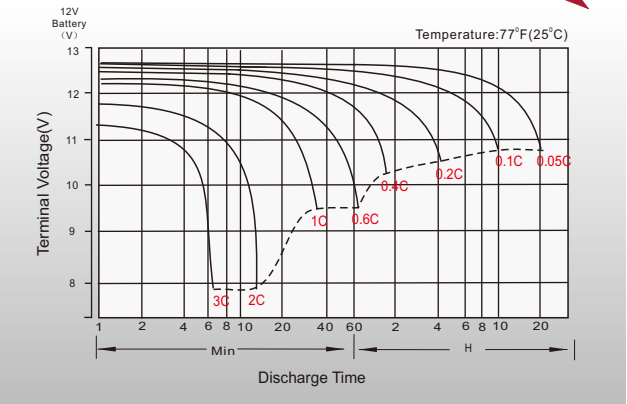
- 5 years design life(77°F)
- Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
- High purity PbCaSn raw material alloy is used for plate grids, assuring less gassing & low self-discharge rate
- High quality AGM separator: extend cycle life and prevent micro short circuit

#### Standards

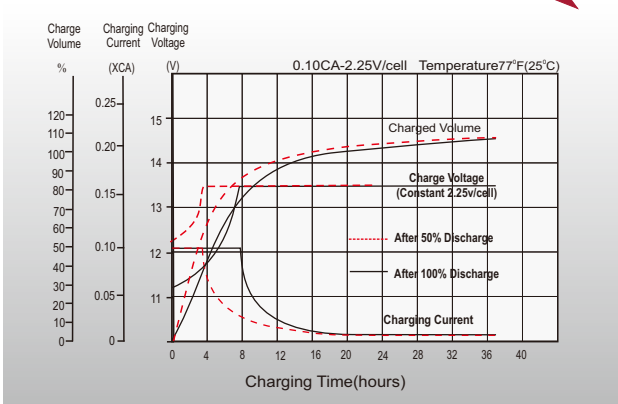
- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in IATF16949,ISO45001, ISO 9001 and ISO 14001 certified production facilities



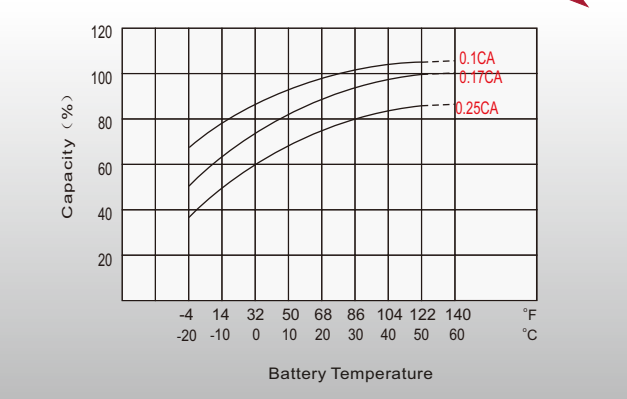
#### Discharge Characteristics



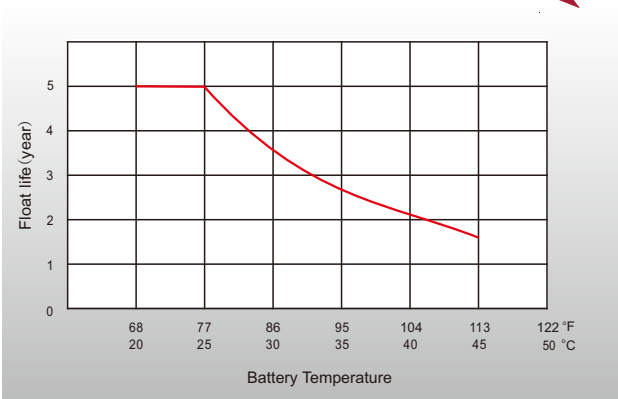
#### Standby/Float Charging Characteristics



#### Temperature Effectes on Battery Capacity



#### Temperature Effectes on Long Term Float Life



#### Sales Offices

Sales: 1.800.233.6261  
 Website: [www.adiglobaldistribution.us](http://www.adiglobaldistribution.us)  
[www.adiglobaldistribution.ca](http://www.adiglobaldistribution.ca)