



# Product Data Sheet

## IM Series: IM-12550NB (UT-12550NB)

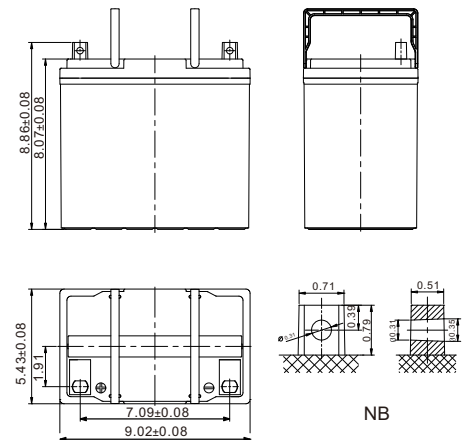
### 12 Volt, 55.0 Amp. Hour

#### Specifications

Rated Voltage	12V						
Nominal Capacity	55.0Ah	(C <sub>20</sub> , 1.75V/cell, 20hrs)					
Dimensions	Length	9.02 inches (229mm)					
	Width	5.43 inches (138mm)					
	Container Height	8.07 inches (205mm)					
	Total Height	8.86 inches (225mm)					
Approx Weight	35.7 lbs (16.2 Kg)						
Terminal	NB						
Container Material	ABS						
Rated Capacity (25°C)	55.0 Ah	(20hr, 2.75A, 1.75V/cell)					
	54.5 Ah	(10hr, 5.45A, 1.75V/cell)					
	50.0 Ah	(5hr, 10.0A, 1.75V/cell)					
	45.6 Ah	(3hr, 15.2A, 1.75V/cell)					
	35.1 Ah	(1hr, 35.1A, 1.60V/cell)					
Max. Discharge Current	550A (5s)						
Internal Resistance (25°C)	Approx 9.0mΩ						
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 16.5A. 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	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.						



#### Layout



#### 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	112.1	79.7	70.5	55.5	49.6	36.3	30.7	22.3	18.7	13.7	10.8	9.35	8.24	6.34	5.15	2.63
1.80V/cell	127.5	90.5	79.9	62.7	54.0	38.4	31.8	23.0	19.3	14.9	11.5	9.83	8.86	6.67	5.39	2.73
1.75V/cell	138.5	98.2	86.5	67.7	55.1	39.8	33.4	24.2	20.4	15.2	11.7	10.0	8.93	6.70	5.45	2.75
1.70V/cell	148.1	104.7	91.9	71.8	56.2	40.6	34.1	24.7	20.8	15.5	11.9	10.2	8.97	6.81	5.50	2.78
1.67V/cell	153.3	108.0	94.6	73.8	57.0	41.2	34.6	25.1	21.1	15.6	12.1	10.4	9.01	6.90	5.57	2.81
1.60V/cell	158.7	111.7	97.5	75.7	57.9	41.8	35.1	25.4	21.4	15.8	12.2	10.5	9.08	6.99	5.64	2.85

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	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	203.0	145.4	133.6	105.5	94.8	69.7	59.4	43.2	36.4	26.8	21.1	18.4	16.3	12.6	10.2	5.23
1.80V/cell	227.1	162.7	149.4	118.0	102.4	73.4	61.2	44.4	37.4	29.0	22.5	19.3	17.4	13.2	10.7	5.41
1.75V/cell	242.4	173.6	159.5	126.0	103.7	75.6	64.0	46.5	39.2	29.5	22.8	19.6	17.5	13.2	10.8	5.46
1.70V/cell	254.8	182.5	167.6	132.4	104.9	76.6	64.9	47.2	39.9	29.9	23.1	19.8	17.6	13.4	10.9	5.51
1.67V/cell	259.0	185.5	170.4	134.6	105.6	77.3	65.5	47.7	40.3	30.1	23.4	20.2	17.6	13.6	11.0	5.57
1.60V/cell	262.6	188.1	172.8	136.5	106.1	77.7	66.0	48.0	40.6	30.2	23.6	20.4	17.7	13.7	11.2	5.63

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



# Product Data Sheet

## IM Series: IM-12550NB (UT-12550NB)

### 12 Volt, 55.0 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

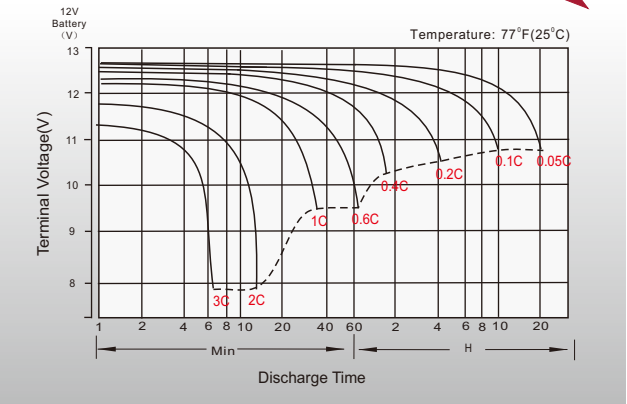
- 5 years design life (77°F)
- Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
- High purity PbCaSn raw material alloy is used for plate grids, assuring less gassing & low self-discharge rate
- High quality AGM separator: extend cycle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

#### Standards

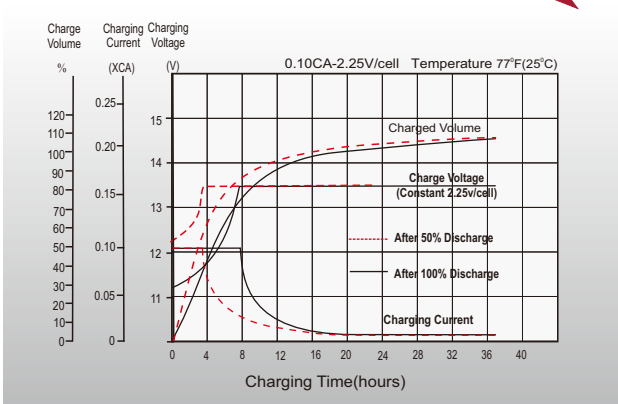
- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in IATF16949, ISO45001, ISO 9001 and ISO 14001 certified production facilities



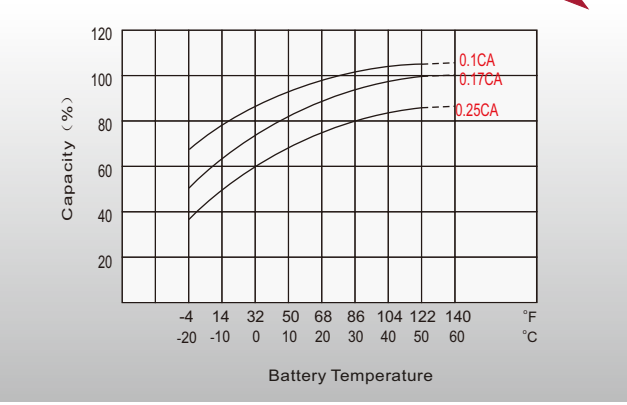
#### Discharge Characteristics



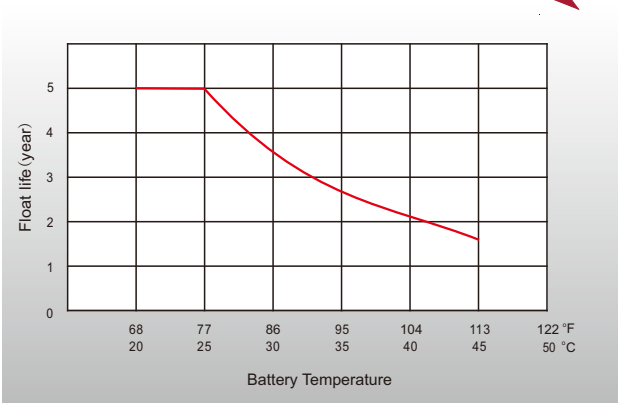
#### Standby/Float Charging Characteristics



#### Temperature Effects on Battery Capacity



#### Temperature Effects 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)