



# Product Data Sheet

## IM Series: IM-1272F1 (UT-1272F1)

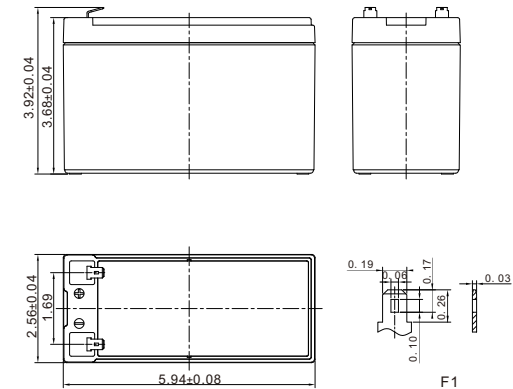
### 12 Volt, 7.0 Amp. Hour

#### Specifications

Rated Voltage	12V						
Nominal Capacity	7.0Ah	(C <sub>20</sub> , 1.75V/cell, 20hrs)					
Dimensions	Length	5.95 inches ( 151 mm)					
	Width	2.56 inches ( 65 mm)					
	Container Height	3.68 inches (93.5 mm)					
	Total Height	3.92 inches (99.5 mm)					
Approx Weight	4.34 lbs ( 1.97 Kg)						
Terminal	F1						
Container Material	ABS						
Rated Capacity (25°C)	7.00 Ah	(20hr, 0.350A, 1.75V/cell)					
	6.53 Ah	(10hr, 0.653A, 1.75V/cell)					
	5.85 Ah	(5hr, 1.19A, 1.75V/cell)					
	5.30 Ah	(3hr, 1.77A, 1.75V/cell)					
	4.27 Ah	(1hr, 4.27A, 1.60V/cell)					
Max. Discharge Current	105A (5s)						
Internal Resistance (25°C)	Approx 33mΩ						
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 2.1A. 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 77°F(25 °C)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	17.0	12.5	9.90	8.10	6.12	4.64	3.91	2.90	2.38	1.72	1.36	1.16	0.99	0.780	0.637	0.343
1.80V/cell	18.5	13.2	10.3	8.35	6.28	4.73	3.99	2.95	2.41	1.74	1.38	1.18	1.01	0.790	0.644	0.347
1.75V/cell	19.9	13.8	10.7	8.60	6.43	4.83	4.06	3.00	2.45	1.77	1.40	1.19	1.02	0.800	0.653	0.350
1.70V/cell	21.4	14.4	11.1	8.86	6.57	4.92	4.13	3.05	2.49	1.79	1.42	1.21	1.03	0.809	0.660	0.354
1.67V/cell	22.3	14.8	11.3	9.01	6.67	4.98	4.17	3.08	2.51	1.81	1.43	1.22	1.04	0.816	0.665	0.356
1.60V/cell	24.3	15.7	11.8	9.40	6.87	5.11	4.27	3.14	2.56	1.84	1.46	1.24	1.06	0.829	0.675	0.361

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

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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	32.3	23.9	19.1	15.6	11.8	9.01	7.61	5.67	4.65	3.37	2.69	2.29	1.96	1.55	1.27	0.686
1.80V/cell	34.8	25.0	19.7	16.0	12.1	9.15	7.73	5.74	4.71	3.42	2.72	2.32	1.99	1.57	1.28	0.693
1.75V/cell	37.4	26.1	20.3	16.4	12.3	9.30	7.84	5.82	4.77	3.46	2.76	2.35	2.01	1.58	1.29	0.700
1.70V/cell	39.9	27.2	20.9	16.8	12.5	9.40	7.95	5.90	4.84	3.50	2.79	2.37	2.03	1.60	1.31	0.707
1.67V/cell	41.4	27.8	21.3	17.1	12.7	9.50	8.02	5.95	4.87	3.53	2.81	2.39	2.05	1.61	1.32	0.712
1.60V/cell	44.7	29.2	22.1	17.6	13.0	9.70	8.17	6.05	4.95	3.59	2.85	2.43	2.08	1.64	1.34	0.722

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



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## IM Series: IM-1272F1 (UT-1272F1)

### 12 Volt, 7.0 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

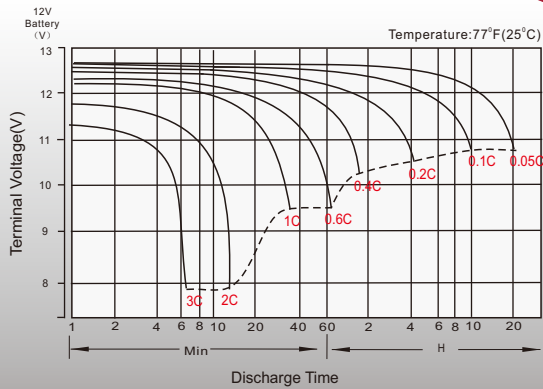
- 5 years design life(77°F)
- Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
- High purity PbCaSn raw material alloy is used for plate grids, assuring less gassing & low self-discharge rate
- High quality AGM separator: extend cycle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

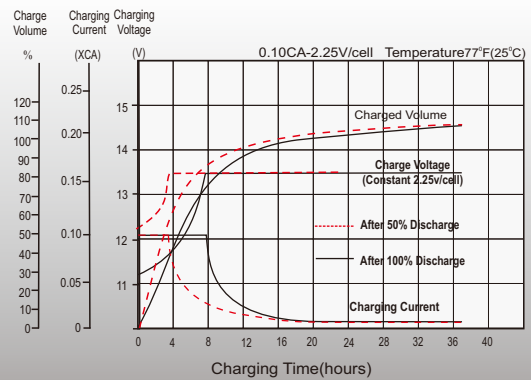


#### Discharge Characteristics

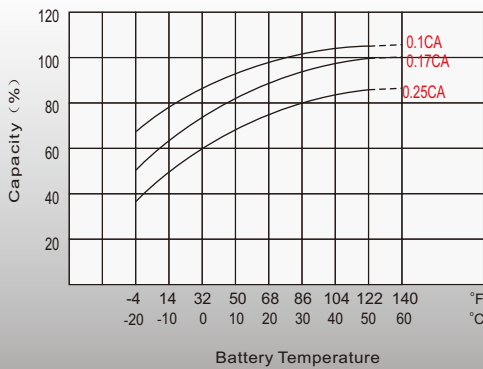


Curves represent Constant Current draw (Amp.)  
 1C curve = 1 x Nominal capacity = 7amp. constant draw    0.05C curve = 0.05 x Nominal capacity = 0.35amp. draw

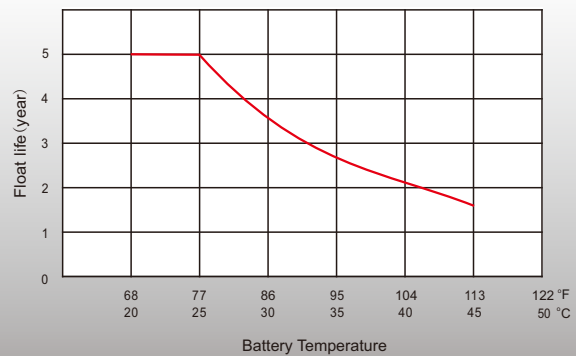
#### Standby/Float Charging Characteristics



#### 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)