



# Product Data Sheet

## IM Series: IM-1280F2 (UT-1280)

### 12 Volt, 7.5 Amp. Hour

#### Specifications

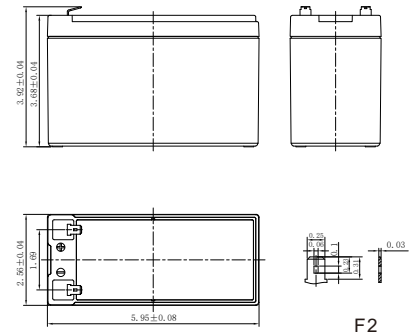
Rated Voltage	12V	
Nominal Capacity	7.5Ah	(C <sub>20</sub> , 1.75V/cell, 20hr)
Dimension	Length	5.95 inches (151mm)
	Width	2.56 inches (65mm)
	Container Height	3.68 inches (93.5mm)
	Total Height	3.92 inches (99.5mm)
Approx Weight	5.03lbs. (2.28kg)	
Terminal	F2	
Container Material	ABS	
Rated Capacity (25°C)	7.50Ah	(20hr, 0.375A, 1.75V/cell)
	7.10Ah	(10hr, 0.710A, 1.75V/cell)
	6.45Ah	(5hr, 1.29A, 1.75V/cell)
	5.73Ah	(3hr, 1.91A, 1.75V/cell)
	4.90Ah	(1hr, 4.90A, 1.60V/cell)
Max. Discharge Current	113A (5s)	
Internal Resistance (25°C)	Approx 23mΩ	
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 2.25A. Voltage	
	13.5V~13.8V at 77°F (25°C) Temp. Coefficient -10mV/°F	
Temperature Effect on Capacity	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	24.4	16.5	12.3	10.1	7.4	5.41	4.43	3.25	2.57	1.85	1.48	1.26	1.08	0.85	0.69	0.367
1.80V/cell	26.3	17.5	12.9	10.5	7.6	5.56	4.54	3.31	2.62	1.88	1.50	1.27	1.09	0.86	0.70	0.371
1.75V/cell	27.7	18.2	13.3	10.7	7.8	5.68	4.63	3.37	2.66	1.91	1.52	1.29	1.11	0.87	0.71	0.375
1.70V/cell	29.0	18.9	13.8	11.1	8.0	5.80	4.72	3.43	2.70	1.94	1.54	1.31	1.12	0.88	0.72	0.378
1.67V/cell	30.0	19.5	14.1	11.3	8.2	5.90	4.79	3.48	2.73	1.96	1.55	1.32	1.13	0.89	0.72	0.381
1.60V/cell	31.8	20.3	14.6	11.6	8.4	6.04	4.90	3.55	2.79	2.00	1.58	1.34	1.14	0.90	0.73	0.385

CO.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	46.2	31.4	23.5	19.4	14.3	10.5	8.6	6.34	5.03	3.64	2.91	2.48	2.13	1.68	1.38	0.733
1.80V/cell	49.2	33.1	24.5	20.0	14.7	10.7	8.8	6.45	5.11	3.69	2.95	2.51	2.16	1.70	1.39	0.742
1.75V/cell	51.3	34.2	25.2	20.5	15.0	10.9	9.0	6.55	5.19	3.74	2.98	2.54	2.18	1.72	1.41	0.750
1.70V/cell	53.2	35.3	25.9	21.0	15.3	11.1	9.1	6.64	5.25	3.79	3.02	2.57	2.20	1.74	1.42	0.756
1.67V/cell	54.5	36.1	26.4	21.3	15.5	11.3	9.2	6.71	5.30	3.82	3.04	2.59	2.22	1.75	1.43	0.762
1.60V/cell	56.7	37.2	27.1	21.9	15.9	11.5	9.4	6.8	5.38	3.88	3.09	2.63	2.25	1.77	1.45	0.770

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



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## IM Series: IM-1280F2 (UT-1280)

### 12 Volt, 7.5 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

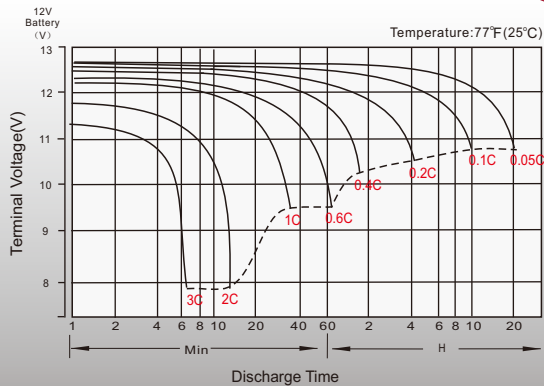
- 5 years design life (77°F)
- Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
- High purity PbCaSn raw material alloy is used for plate grids, assuring less gassing and low self-discharging rate
- High quality AGM separator extends cycle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

#### Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

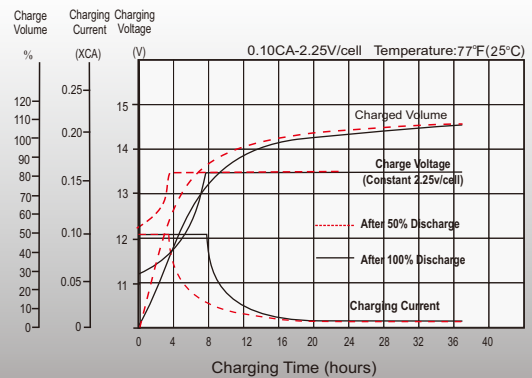


#### Discharge Characteristics

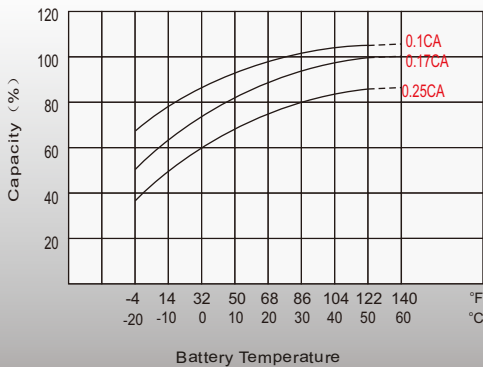


Curves represent Constant Current draw (Amp.)  
 1C curve = 1 x Nominal capacity = 7.5amp. constant draw    0.05C curve = 0.05 x Nominal capacity = 0.375amp. draw

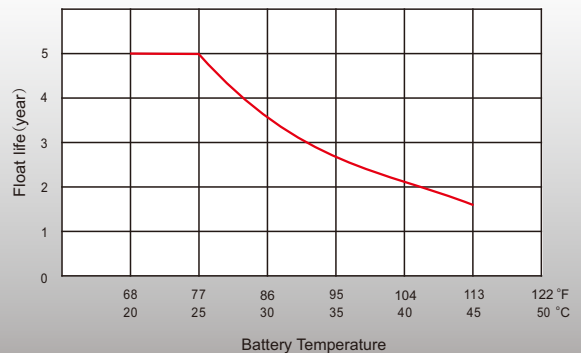
#### Standby/Float Charging Characteristics



#### 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)