



Product Data Sheet

IM Series: IM-1290F2 (UT-1290F2)

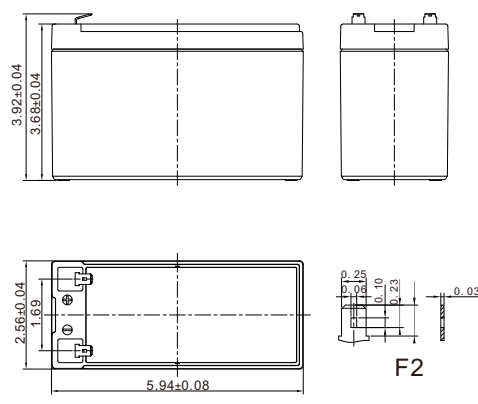
12 Volt, 9.0 Amp. Hour

Specifications

Rated Voltage	12V						
Nominal Capacity	9.0Ah	(C ₂₀ , 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	5.27 lbs (2.39 Kg)						
Terminal	F2						
Container Material							
Rated Capacity (25°C)	9.00 Ah	(20hr, 0.450A, 1.75V/cell)					
	8.01 Ah	(10hr, 0.801A, 1.75V/cell)					
	6.95 Ah	(5hr, 1.39A, 1.75V/cell)					
	6.12 Ah	(3hr, 2.04A, 1.75V/cell)					
	5.10 Ah	(1hr, 5.10A, 1.60V/cell)					
Max. Discharge Current	128A (5s)						
Internal Resistance (25°C)	Approx 18mΩ						
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 2.55A. 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	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	18.6	13.2	11.1	9.42	7.04	5.23	4.22	2.52	1.87	1.52	1.29	1.12	0.884	0.748	0.431
1.80V/cell	22.2	15.2	12.4	10.4	7.70	5.63	4.54	2.69	1.99	1.60	1.36	1.17	0.932	0.788	0.441
1.75V/cell	24.8	16.5	13.4	11.0	8.03	5.84	4.70	2.76	2.04	1.63	1.39	1.19	0.949	0.801	0.450
1.70V/cell	27.1	17.9	14.1	11.5	8.33	6.04	4.84	2.84	2.08	1.67	1.41	1.21	0.962	0.811	0.456
1.65V/cell	29.4	18.8	14.6	11.9	8.61	6.23	4.99	2.89	2.13	1.69	1.44	1.23	0.973	0.819	0.460
1.60V/cell	31.0	19.6	15.1	12.2	8.85	6.38	5.10	2.96	2.16	1.73	1.46	1.25	0.983	0.826	0.463

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	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	35.1	25.1	21.3	18.2	13.8	10.3	8.32	4.97	3.72	3.02	2.59	2.25	1.78	1.51	0.871
1.80V/cell	41.4	28.7	23.7	20.0	15.0	11.0	8.91	5.31	3.94	3.19	2.72	2.36	1.87	1.58	0.887
1.75V/cell	46.0	31.1	25.4	21.1	15.5	11.4	9.23	5.44	4.01	3.23	2.75	2.38	1.89	1.60	0.902
1.70V/cell	49.3	33.1	26.3	21.8	16.0	11.7	9.40	5.54	4.09	3.27	2.77	2.41	1.90	1.61	0.905
1.65V/cell	52.7	34.4	27.0	22.2	16.3	11.9	9.60	5.60	4.14	3.30	2.80	2.42	1.91	1.62	0.907
1.60V/cell	54.3	34.9	27.5	22.4	16.5	12.1	9.70	5.68	4.17	3.34	2.83	2.44	1.92	1.63	0.909

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



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12 Volt, 9.0 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

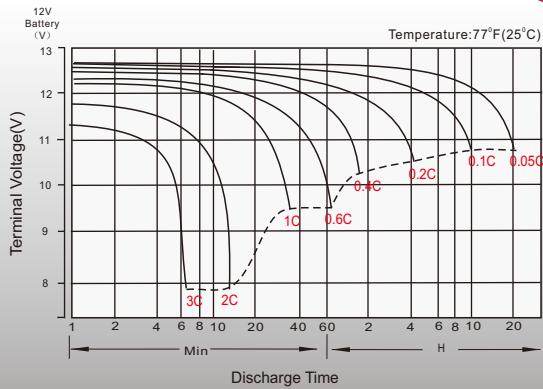
- 5 years design life(77°F)
- Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
- High purity PbCaSn raw material alloy is used for plate grids, assuring less gassing & low self-discharge rate
- High quality AGM separator: extend cycle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

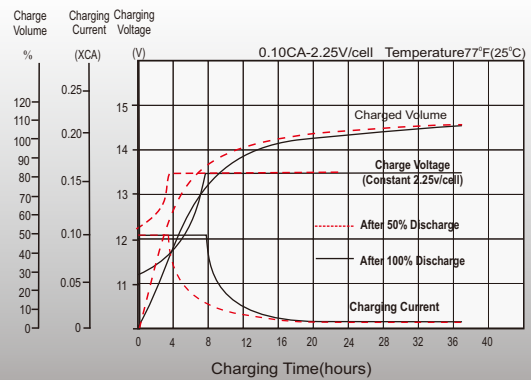


Discharge Characteristics

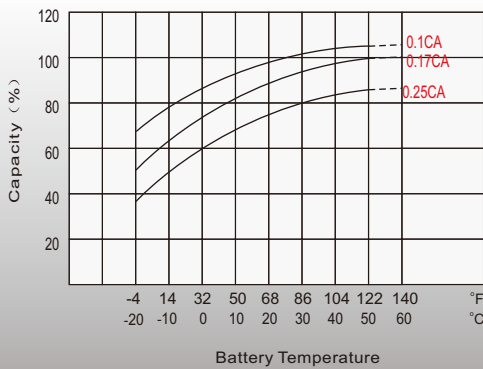


Curves represent Constant Current draw (Amp.)
 1C curve = 1 x Nominal capacity = 8.5amp. constant draw 0.05C curve = 0.05 x Nominal capacity = 0.425amp. draw

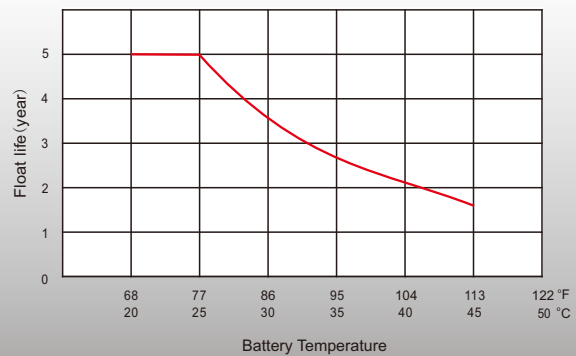
Standby/Float Charging Characteristics



Temperature Effectes on Battery Capacity



Temperature Effectes on Long Term Float Life



Sales Offices

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