



Product Data Sheet

IM Series: IM-12120NB (UT-12120)

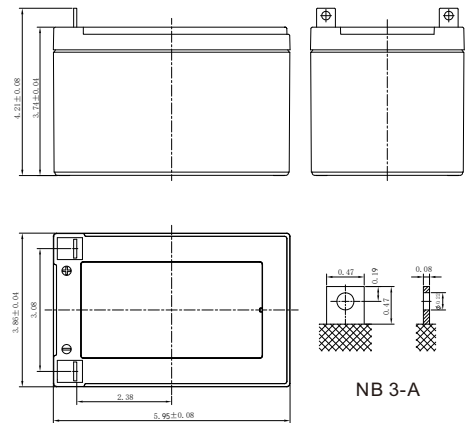
12 Volt, 12.0Amp. Hour

Specifications

Rated Voltage	12V						
Nominal Capacity	12.0Ah	(C ₂₀ , 1.75V/cell, 20hr)					
Dimensions	Length	5.95 inches (151mm)					
	Width	3.86 inches (98mm)					
	Container Height	3.74 inches (95mm)					
	Total Height	4.21 inches (107mm)					
Approx Weight	8.53lbs. (3.87kg)						
Terminal	NB 3-A						
Container Material	ABS						
Rated Capacity (25°C)	12.0Ah	(20hr, 0.600A, 1.75V/cell)					
	11.3Ah	(10hr, 1.13A, 1.75V/cell)					
	10.4Ah	(5hr, 2.07A, 1.75V/cell)					
	9.18Ah	(3hr, 3.06A, 1.75V/cell)					
	8.10Ah	(1hr, 8.10A, 1.60V/cell)					
Max. Discharge Current	180A (5s)						
Internal Resistance (25°C)	Approx 19.0mΩ						
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 3.6A. 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	40.1	27.3	20.7	16.9	12.4	9.00	7.30	5.30	4.14	2.96	2.36	2.01	1.72	1.36	1.11	0.587
1.80V/cell	43.1	28.9	21.8	17.5	12.8	9.20	7.50	5.40	4.22	3.01	2.40	2.04	1.75	1.38	1.12	0.593
1.75V/cell	45.5	30.1	22.5	18.0	13.1	9.40	7.60	5.50	4.29	3.06	2.43	2.07	1.77	1.39	1.13	0.600
1.70V/cell	47.6	31.3	23.2	18.6	13.5	9.70	7.80	5.60	4.36	3.11	2.46	2.09	1.79	1.41	1.15	0.605
1.67V/cell	49.2	32.2	23.8	18.9	13.7	9.80	7.90	5.70	4.41	3.14	2.49	2.11	1.81	1.42	1.15	0.610
1.60V/cell	52.2	33.5	24.6	19.5	14.1	10.1	8.10	5.80	4.50	3.19	2.53	2.15	1.83	1.44	1.17	0.616

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	75.9	51.9	39.7	32.5	24.0	17.5	14.2	10.4	8.11	5.83	4.65	3.97	3.41	2.69	2.20	1.17
1.80V/cell	80.8	54.7	41.4	33.6	24.6	17.9	14.5	10.6	8.24	5.91	4.71	4.02	3.45	2.73	2.23	1.19
1.75V/cell	84.2	56.5	42.5	34.4	25.2	18.2	14.8	10.7	8.37	5.99	4.77	4.07	3.49	2.75	2.25	1.20
1.70V/cell	87.3	58.3	43.7	35.2	25.7	18.5	15.0	10.9	8.47	6.07	4.83	4.12	3.53	2.78	2.27	1.21
1.67V/cell	89.6	59.6	44.6	35.8	26.1	18.8	15.2	11.0	8.55	6.12	4.87	4.15	3.56	2.80	2.29	1.22
1.60V/cell	93.3	61.4	45.8	36.7	26.6	19.1	15.5	11.2	8.69	6.21	4.94	4.20	3.60	2.84	2.32	1.23

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



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12 Volt, 12.0Amp. 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

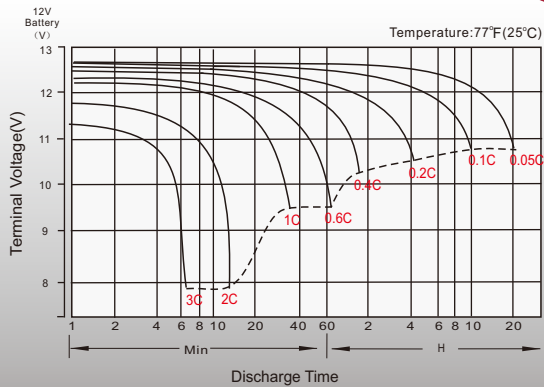
- 5 years design life (77°F)
- Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
- High purity PbCaSn raw material alloy is used for plate grids, assuring less gassing and low self-discharging rate
- High quality AGM separator extends cycle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

Standards

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

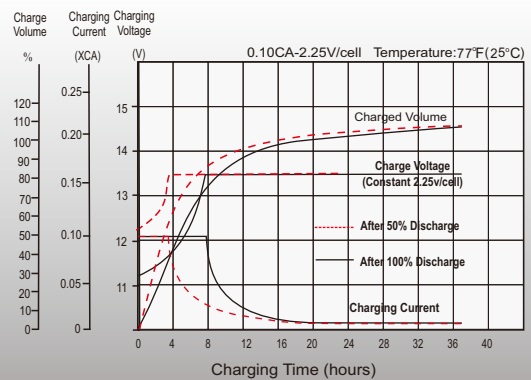


Discharge Characteristics

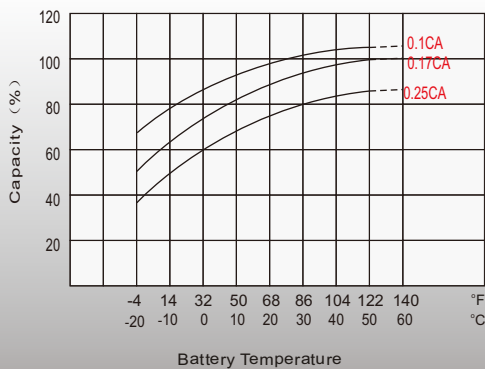


Curves represent Constant Current draw (Amp.)
 1C curve = 1 x Nominal capacity = 7.5amp. constant draw 0.05C curve = 0.05 x Nominal capacity = 0.375amp. draw

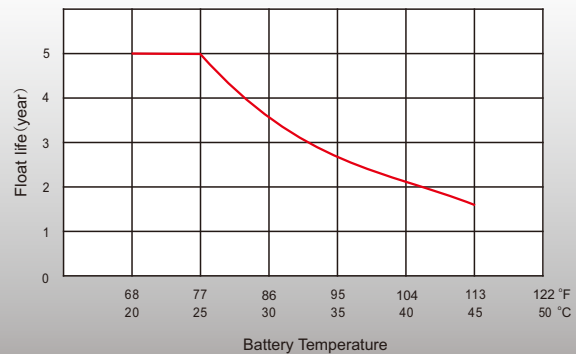
Standby/Float Charging Characteristics



Temperature Effects on Battery Capacity



Temperature Effects on Long-Term Float Life



Sales Offices

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