



Product Data Sheet

IM Series: IM-12350NB(UT-12350NB)

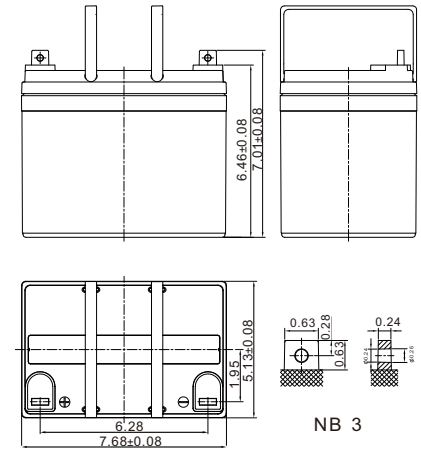
12 Volt, 35.0 Amp. Hour

Specifications

Rated Voltage	12V	
Nominal Capacity	35.0Ah	(C ₂₀ , 1.75V/cell, 20hrs)
Dimensions	Length	7.68 inches (195mm)
	Width	5.12 inches (130mm)
	Container Height	6.46 inches (164mm)
	Total Height	7.01 inches (178mm)
Approx Weight	23.6 lbs (10.7 Kg)	
Terminal	NB 3	
Container Material	ABS	
Rated Capacity (25°C)	35.0 Ah	(20hr, 1.75A, 1.75V/cell)
	33.1 Ah	(10hr, 3.31A, 1.75V/cell)
	30.1 Ah	(5hr, 6.02A, 1.75V/cell)
	27.1 Ah	(3hr, 9.03A, 1.75V/cell)
	23.8 Ah	(1hr, 23.8A, 1.60V/cell)
Max. Discharge Current	525A (5s)	
Internal Resistance (25°C)	Approx 10mΩ	
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 10.5A. 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	114.4	78.5	60.4	48.8	36.0	26.3	21.5	15.7	12.3	8.74	6.89	5.86	5.02	3.96	3.23	1.71
1.80V/cell	123.1	83.2	63.4	50.8	37.1	27.0	22.1	16.0	12.5	8.89	6.99	5.95	5.10	4.01	3.28	1.73
1.75V/cell	129.7	86.5	65.5	52.2	38.0	27.6	22.5	16.3	12.7	9.03	7.08	6.02	5.16	4.06	3.31	1.75
1.70V/cell	135.8	90.0	67.7	53.7	39.0	28.2	22.9	16.6	12.9	9.16	7.18	6.11	5.22	4.10	3.34	1.76
1.67V/cell	140.5	92.5	69.3	54.8	39.7	28.6	23.3	16.8	13.0	9.25	7.25	6.16	5.27	4.13	3.37	1.78
1.60V/cell	149.0	96.4	71.7	56.5	40.8	29.4	23.8	17.2	13.3	9.42	7.38	6.26	5.34	4.19	3.41	1.80

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	216.5	149.3	115.6	94.1	69.5	51.0	41.9	30.6	24.0	17.2	13.6	11.6	9.93	7.84	6.43	3.42
1.80V/cell	230.6	157.2	120.6	97.3	71.3	52.2	42.8	31.2	24.4	17.4	13.7	11.7	10.1	7.95	6.51	3.46
1.75V/cell	240.3	162.3	123.8	99.5	72.9	53.1	43.5	31.6	24.8	17.7	13.9	11.9	10.2	8.03	6.57	3.50
1.70V/cell	249.2	167.7	127.2	101.8	74.4	54.1	44.1	32.1	25.1	17.9	14.1	12.0	10.3	8.10	6.63	3.53
1.67V/cell	255.7	171.4	130.0	103.7	75.5	54.8	44.7	32.4	25.3	18.0	14.2	12.1	10.4	8.16	6.68	3.56
1.60V/cell	266.0	176.4	133.5	106.3	77.2	55.8	45.5	33.0	25.7	18.3	14.4	12.3	10.5	8.27	6.75	3.59

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



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12 Volt, 35.0 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

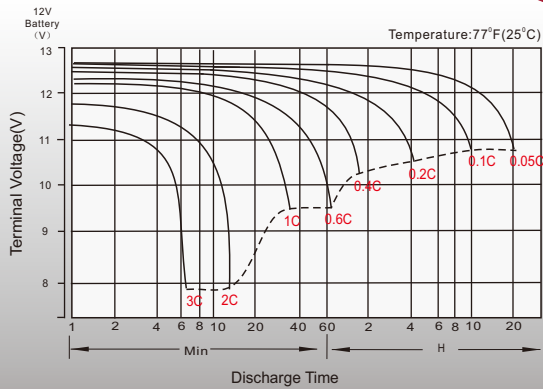
- 5 years design life(77°F)
- Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
- High purity PbCaSn raw material alloy is used for plate grids, assuring less gassing & low self-discharge rate
- High quality AGM separator: extend cycle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

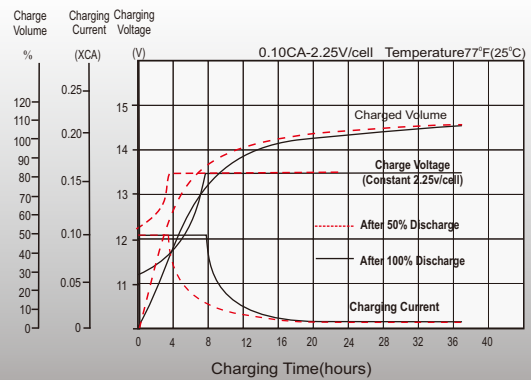


Discharge Characteristics

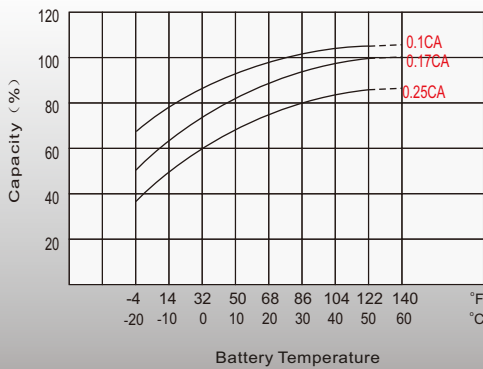


Curves represent Constant Current draw (Amp.)
 1C curve = 1 x Nominal capacity=35amp. constant draw 0.05C curve = 0.05 x Nominal capacity = 1.75amp. draw

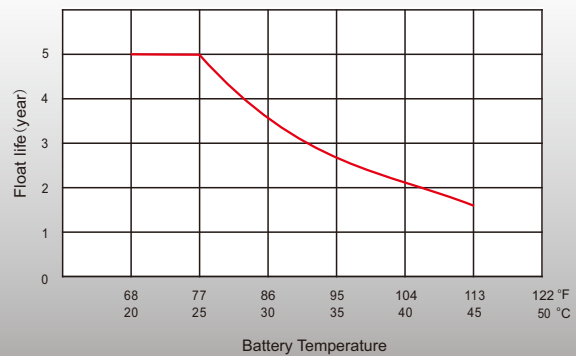
Standby/Float Charging Characteristics



Temperature Effectes on Battery Capacity



Temperature Effectes on Long Term Float Life



Sales Offices

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