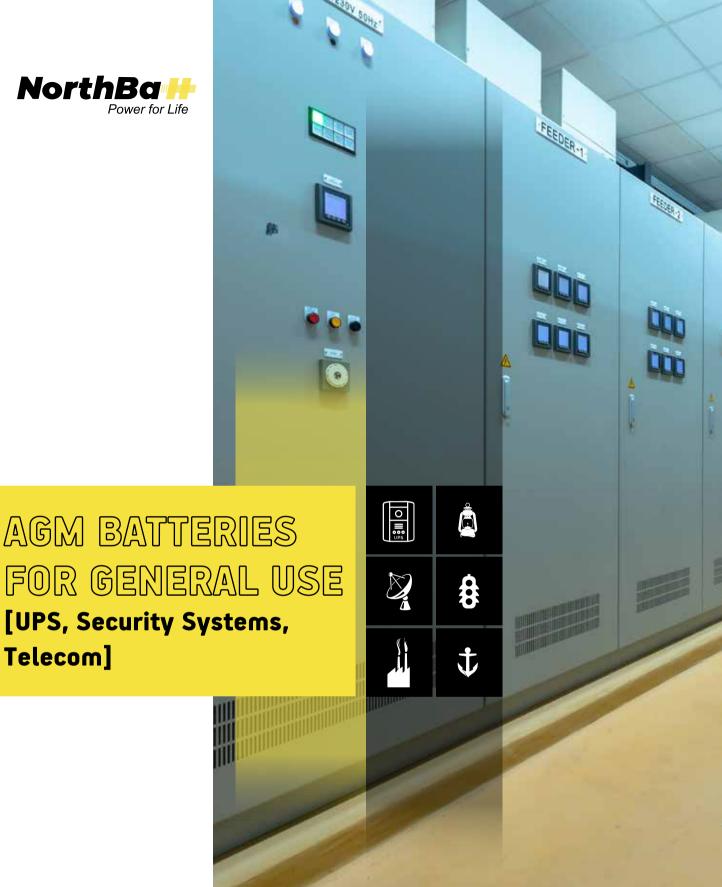


Telecom]



Our company ranks amongst the leaders in energy solutions companies in Greece, currently expanding in the global market. Northbatt specializes in batteries for industrial applications. (i.e. batteries for motive and reserve power).







Having four decades of experience, Northbatt is committed to provide the most efficient solutions to cover its customer's industrial needs, giving power to people's life.

Our company has long-lasting collaborations, high quality product standards

and comprehensive after-sales technical support, offering solutions for batteries, chargers and all the relevant equipment. Our products are designed to satisfy the needs for the following applications like industrial vehicles, forklifts, solar & renewable energy sources, IT information technology, utility networks, tellecommunications, UPS, marine, etc. We proudly welcome you to our battery and energy solutions family!





FEATURES AGM > VRLA

- Sealed Maintenance Fre: No need for checking Electrolyte level and topping throughout its life. Sealed Construction ensures no leakage or seepage of electrolyte from terminal or casing.
- Free From Orientation Constraints: The sealed construction with immobilised electrolyte allows the battery to be installed in any position, horizontal vertical sideways – without any effect on its performance.
- Eco Friendly: The unique gas recombination technology effectively nullifies generation of gas during normal use, It is totally eco – friendly, ensuring clean and safe environment.
- Good Service Life: Between 8 to 12 Years life for small and medium monoblock range for stand by applications.
- Low self Discharge : very low Self discharge as compared to conventional flooded batteries.
- Charge Retention & Recovery: Excellent charge retention and recovery ability due to special design of plates and separat with an absolutely balanced electrolyte
- Superior High Rate Discharge: Very Low internal resistance and very high electrolyte – active material reactive interface – allows very high currents for short and medium duration.
- High Reliability: Tough construction and heavy duty design with superior corrosion resistant lead calcium tin alloy.





BENEFITS AGM > VRLA

- Saving of manpower for regular topping up and cleaning corroded terminals as in conventional batteries.
- Battery can be installed inside offices and working areas – no need for separate battery rooms, costly acid proof flooring etc. Battery can be installed in a cabinet also.
- No need for elaborate air exhaust systems as in conventional battery installation.
- Saving from transmission loss Higher efficiency Lower electricity consumption Lower cost cabling
- Can be stored for 3 to 6 Months, depending upon ambient temperature before recharge and without any loss of efficiency or performance.
- Very long shelf life
- Leads to greatly improved ability to recover from deep discharge
- Required smaller capacity (as compared to flooded batteries) for high rate discharges up to 15mins/30mins/60mins duration
- Lower size, lower space requirement.

APPLICATIONS

STANDBY POWER

UPS System
Telecommunication System
Fire Alarm & Security System
Power Plants & substations
Railway Signalling

PORTABLE POWER

Search Light
Solar Lanterns
Marine & Offshore Equipment
Medical Electronics



GENERAL USE AGM SPECIFICATION TABLE											
				DIMEN	ISIONS		Recom.	Recom.		TERMINALS	
Northbatt Code	V	АН	L	W	Н	T.H	Charge Current	Discharge Current (5 sec)	Weight	ТҮРЕ	LAYOUT
			(mm)			A	A	(kg)			
		C20								Up to 10 Lifeti	
1.3-6	6	1.3	97	24	52	58	0.39	12	0.28	F1	С
3.2-6	6	3.2	134	34	61	67	0.96	32	0.61	F1	С
4.5-6	6	4.5	70	47	101	107	1.25	45	0.75	F1	В
7.0-6	6	7	151	34	94	100	2.10	70	0.98	F1	С
12.0-6	6	12	151	50	94	100	3.60	120	1.75	F1	С
3.2-8	8	3.2	134	36	63	69	0.96	32	0.61	F1	Е
1.3-12	12	1.3	97.5	43	52	58	0.33	19.5	0.51	F1	Е
2.3-12	12	2.3	178	34	60	65	0.69	33	0.88	F1	С
3.3-12	12	3.3	134	67	62	67	0.96	48	1.23	F1	Е
5.0-12	12	5	90	70	101	107	1.125	75	1.53	F1, F2	С
6.0-12	12	6	151	50	96	101	1.80	60	1.80	F2	F
7.0-12	12	7	151	65	94	100	1.75	105	2.02	F1, F2	F
7.2-12	12	7.2	151	65	95	101	1.80	108	2.10	F2	F
7.5-12	12	7.5	151	65	94	100	1.88	113	2.14	F2	F
9.0-12	12	9	151	65	94	100	2.25	135	2.51	F2	F
12-12	12	12	151	98	95	100	3.00	180	3.40	F2	F
18-12	12	18	181	76	167	167	4.25	270	5.00	L	D
26-12	12	26	166	175	125	125	6.50	360	7.70	M5	D
		C10								10 - 12 Lifeti	
33-12	12	33	210	130	167	167	8.30	396	10.00	М6-В	С
40-12	12	40	197	165	172	172	10.00	460	12.50	М6-В	D
55-12	12	55	229	138	205	208	13.80	660	16.50	М6-В	С
65-12	12	65	350	166	175	175	16.30	780	19.00	M8, M6-B	D
80-12 S	12	80	258	168	208	211	19.50	960	24.00	М6-В	С
80-12	12	80	350	166	175	175	19.50	960	22.80	M8, M6-B	D
100-12	12	100	330	171	216	219	25.00	1.200	29.50	M8	С
120-12	12	120	407	173	237	237	30.00	1.440	35.00	M8	С
150-12	12	150	484	170	241	241	37.50	1.800	42.00	M8	С
200-12	12	200	522	240	219	222	50.00	2.400	57.00	M8	Е

Standby use voltage
13.5V-13.8V @25 C
Temperature
compensation: -3mV/C/Cell
Cycle use voltage 14.4 V15.0 V @ 25 C
Temperature
compensation: -4mV/C/Cell
Operating temperature rang
Discharge: -20 C ÷ 60 C
Charge: 0 C ÷ 50 C
Storage: -20 C ÷ 60 C
Normal operating
temperature range 25 C
±5 C

Advantage: International size - Matches dimension of any International equipment. High Rate performance - matches or betters High Rate performance of equivalent international types.





CHARGE LIMITS

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Table (2) shows the charge voltage and limit current. The charge voltage of the battery has to be reduced with increasing temperature and increased with decreasing temperature. Accordingly, charging with a given voltage requires increased charge current when the temperature is high and reduced charge current at a lower temperature.

a) Even under high temperature, a charging voltage of 2.2V/cell is required.
b) Even under low temperature, the charging voltage must be set at less than 2.45V/cell so as to prevent gas generation from the battery. c) The battery life will be shortened as service temperature rises.

TADIES

1115211 1							
CHARGING PHASE	Voltage setting per 12 V unit for ambient temperature 25°C	Current Setting					
Float	13.5-13.8V	Maximum : 0.25 CA Recom. : 0.1CA					
Absorption	14.4-15.0 V						

Temperature Compensation: (Reference 25°C) Float: -18mV/°C /12V Unit Cyclic: -30mV/°C/12V Unit

CHARGE PARAMETERS

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Recharge Voltages : Batteries to be recharged in CC-CV mode only.



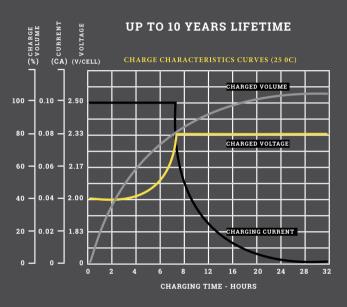
CHARGER

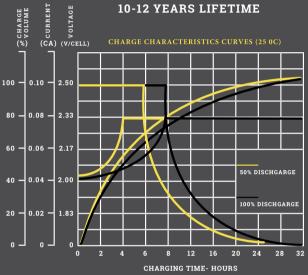
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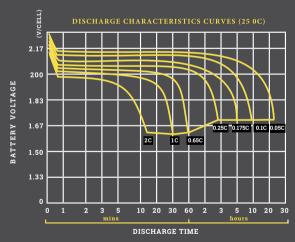
'Constant Potential'
charges with current
limit facility only, are
recommended for normal
continuous operation.

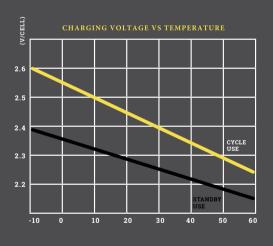


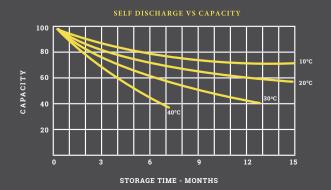
PERFOMANCE CURVES

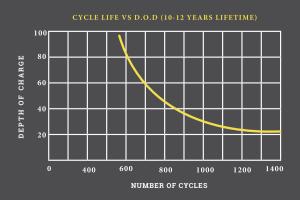






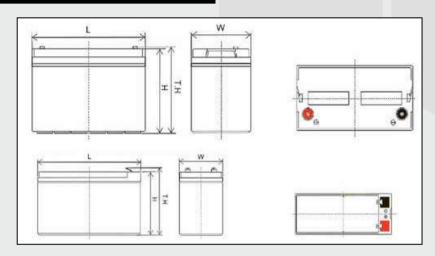




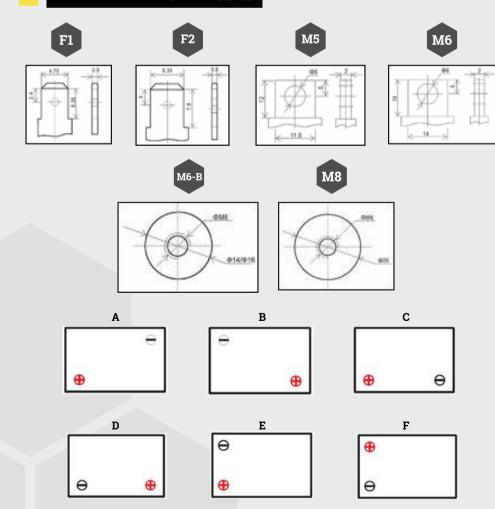




BATTERY DIMENSIONS



TERMINAL TYPES - LAYOUTS



TERMINAL TYPE

TERMINAL LAYOUT





WAREHOUSE:

BLOCK 53B STREET 14, THESSALONIKI'S INDUSTRIAL AREA 57 022, GREECE

BRANCH STORE:

KOUSKOURA 7, 54 622,

THESSALONIKI, GREECE

ATHENS'S OFFICES:

+30 2310 785722

www.northbatt.com

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