

E-90X

12V 90Ah



Introduction

E-GUARD NM (E-90X) series is designed for standby use with a 5-year design life in float service. This series of battery features high consistency, excellent performance and reliable standby service life. It is widely applied in float service, UPS/EPS, medical equipment, telecom, photovoltaic, control system and security system.

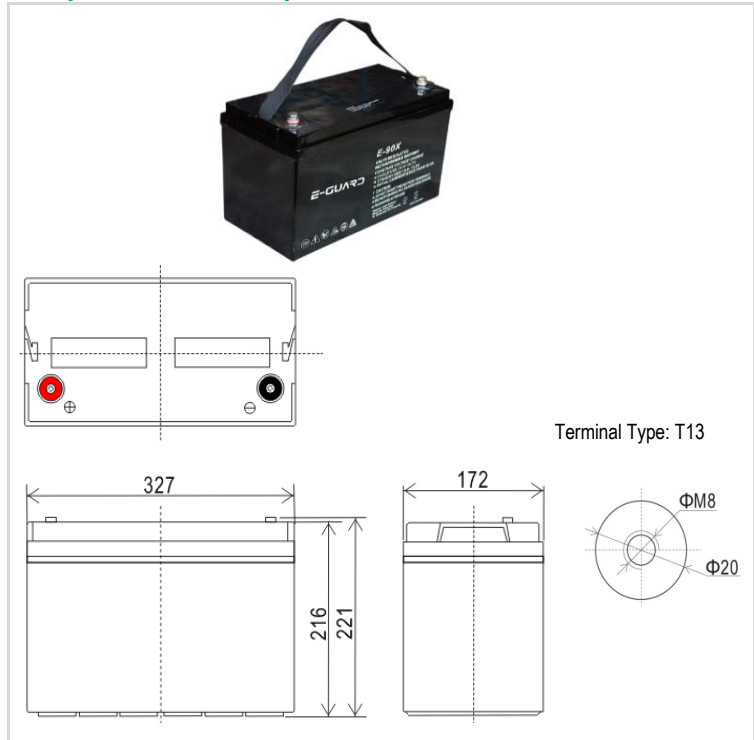
Battery Features

- Increase durability and deep cycle ability for heavy demand applications
- Low self-discharge
- Fully tank formed plates
- Low impurity electrolyte
- Spill proof / leak proof
- Multi-position usage
- ABS case and cover VO upon request
- Very high purity lead

Electrical Specification

Design floating Life @ 25°C (77°F)	5 years
Nominal Capacity @ 25°C /77°F	
20 hour rate 4.63 A to 1.75Vpc	92.6 Ah
10 hour rate 9.04A to 1.75Vpc	90.4Ah
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	5mΩ
Max. Discharge Current @ 25°C /77°F	1000 A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	14.7 ~ 14.9V
Max. Current	27 A
Standby Use	13.6 - 13.8V
Operating Temperature Range	-30 ~ 50°C
<i>Notes: battery voltage must be adjusted according to temperature. Please refer to our recommendation.</i>	
Self-Discharge	
3% of capacity declined per month @ 25°C (77°F).	

Battery Picture & Terminal Layout



Dimension & Weight

Length	Dimension (± 2mm)			Total Height	Weight (± 2%)
	Width	Height	Total Height		
327 mm	172 mm	216 mm	221 mm	27 kg	
12.9 inch	6.8 inch	8.5 inch	8.7 inch	59.5 lbs	

Typical Applications

- Telecommunications
- Power Utility
- Data Center
- UPS & EPS

Certificates



Constant Current Discharge (Amperes @ 25°C /77°F)

V/cell	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	1hr	2hr	3hr	4hr	5hr	10hr	20hr
1.60	208.3	159.0	137.3	115.7	97.9	92.7	86.5	80.8	75.5	68.5	66.2	35.9	25.5	21.2	17.3	9.26	4.68
1.65	197.8	151.0	131.1	111.3	95.3	90.3	84.3	78.9	74.0	67.3	65.3	35.2	25.0	20.8	16.9	9.22	4.68
1.70	189.6	144.7	125.9	107.2	92.2	87.3	81.6	76.4	71.7	65.3	63.5	34.0	24.5	20.3	16.5	9.13	4.68
1.75	180.8	138.0	120.3	102.6	88.7	84.0	78.7	73.8	69.5	63.6	62.1	33.0	23.9	19.8	16.2	9.04	4.63
1.80	171.5	130.9	114.4	97.9	85.2	80.6	75.6	71.1	67.1	61.6	60.3	31.9	23.3	19.3	15.8	8.80	4.59

Constant Power Discharge (Watts/cell @ 25°C /77°F)

V/cell	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	1hr	2hr	3hr	4hr	5hr	10hr	20hr
1.60	361.7	276.1	243.0	209.9	182.9	173.7	161.3	150.0	139.4	126.0	120.6	66.3	48.3	40.0	33.0	18.5	9.75
1.65	348.9	266.3	234.8	203.4	178.1	169.1	157.2	146.3	136.2	123.4	118.4	65.0	47.8	39.6	32.5	18.3	9.75
1.70	335.4	256.1	226.1	196.2	172.4	163.7	152.5	142.1	132.7	120.6	116.1	63.4	46.9	38.9	32.0	17.9	9.62
1.75	320.9	244.9	216.7	188.4	166.3	157.9	147.2	137.5	128.7	117.3	113.4	61.4	45.6	37.9	31.5	17.8	9.44
1.80	305.1	232.9	206.5	180.0	159.7	151.6	141.6	132.4	124.2	113.6	110.3	59.2	44.4	37.0	30.7	17.6	9.35

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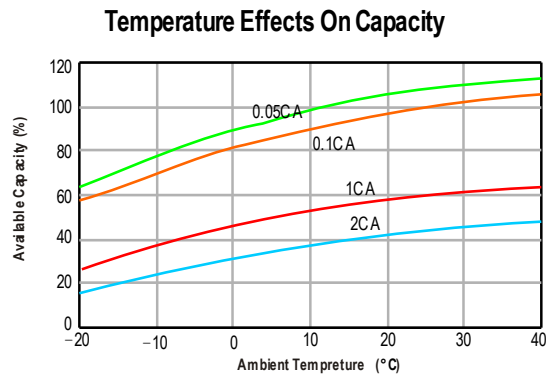
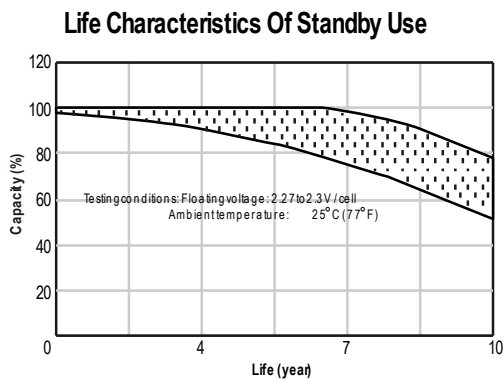
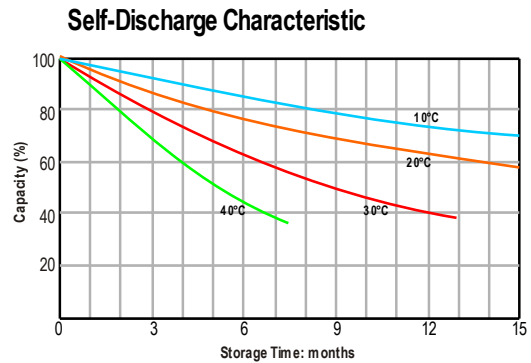
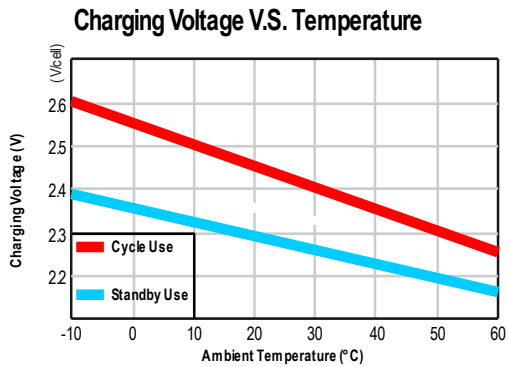
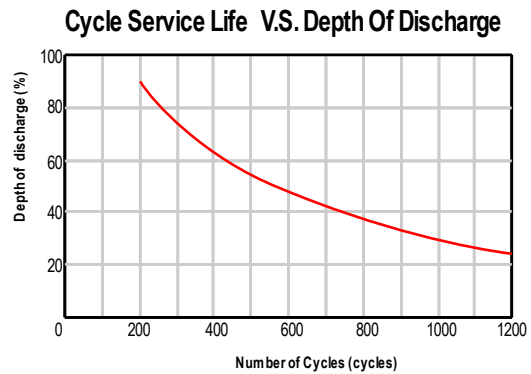
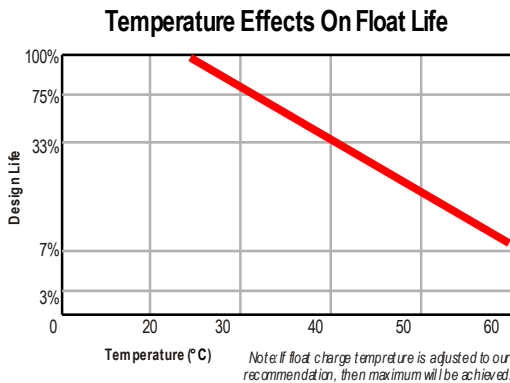
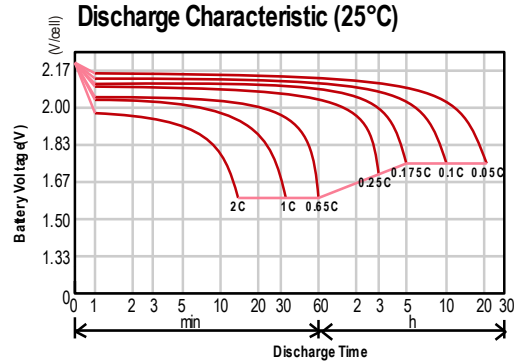
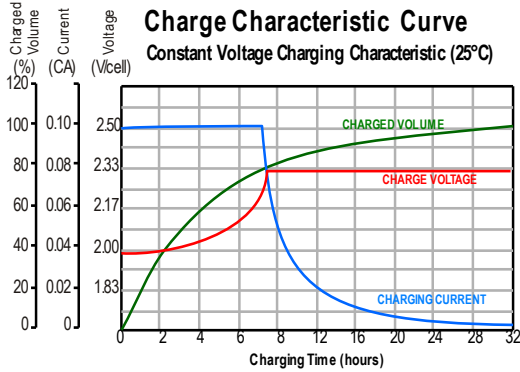
Web: www.enervision.co.za | Email: sales01@enervision.co.za | Telephone: 0861 111 270

VERSION:20200519



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