



POWERSAFE NXT

Longer hours
Faster recovery



Introduction:

After 10 years of experience in VRLA with Shin Kobe, Exide has finally launched new Exide Powersafe NXT with the cycle life unmatched with competition nationally and internationally with its unique feature of 5 hours quick recharge option.

Features:

● Deep cycle application ● Fast recovery from deep discharge ● Extended cycle life ● Fast recharge capability ● Excellent charge retention ● International size ● Free from orientation constraints ● Eco-friendly

Specification Table

Battery Type	Nominal Voltage (V)	Rated Capacity (Ah) at 27°C								(Dimensions in mm)				Weight (Kg.) +/-5%	Internal Resistance (m-ohm)	Maximum Discharge Current (Amps)
		20hr. 1.75 V/cell	10hr. 1.75 V/cell	5hr. 1.75 V/cell	3hr. 1.75 V/cell	2hr. 1.75 V/cell	90 mins. 1.75 V/cell	60 mins 1.75 V/cell	30 mins 1.75 V/cell	Overall Height +/-3	Height up to lid +/-3	Length +/-2	Width +/-2			
NXT 17-12	12	17	15.5	14.0	13.0	12.0	11.0	9.5	7.5	167	167	181	76	5.90	15	255
NXT 26-12	12	26	23.5	21.0	19.5	18.0	17.0	14.5	11.5	175	175	166	125	9.60	10	390
NXT 42-12	12	42	38.0	34.0	31.5	29.5	27.5	23.0	19.0	170	170	197	165	13.80	8	420
NXT 65-12	12	65	58.5	52.5	49.0	45.5	43.0	36.0	29.5	174	174	350	166	22.00	8	500
NXT 100-12	12	100	90.0	81.0	75.0	70.0	66.0	55.0	45.0	235	235	407	173	35.00	6	600
NXT 150-12	12	150	135.0	121.5	112.5	105.0	99.0	82.5	67.5	240	240	557	172	50.00	6	900
NXT 200-12	12	200	180.0	162.0	150.0	140.0	132.0	110.0	90.0	240	240	533	250	67.00	5	1200

Note: Batteries are despatched from factory at minimum 90% state of charge. Full capacity is achieved after a minimum ten numbers of charge - discharge cycle at full depth or 3 months of continuous float operation.

Charging Characteristics:

a) **Normal Recharge:** Batteries to be recharged in cc-cv model only

Mode of operation	Voltage setting per 12V unit for ambient temperature 20 - 30 °C	Current setting
Float	13.7V +/- 0.1V	Maximum : 0.3 CA
Cyclic	14.7V +/- 0.1V	Minimum: 0.1 CA

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

b) **Fast Recharge option:**

During operation, if the battery bank is subjected to regular (daily) deep discharge in excess of 50% (cumulative basis), the fast recharge option may be exercised.

Fast recharge, following pattern to be followed:- Step 1: 0.3C – 14.5V, Step 2: .1C – 14.5V, Step 3: 0.05C – 14.5V, Step 4: 0.02C – 14.5V
Total duration for the four steps shall be 5.0 hours for a recharge after a 70% DOD. However, this mode of recharge will require an equalization once a month at the recommended float voltage for a period of 12 hours uninterrupted.

Standard Maintenance Recommendations: (a) Visual check every 3 months to note any physical abnormality like bulge, crack or leakage etc. (b) Measure float voltage of individual units once in 3 months and record the data. (c) Test discharge the battery bank at least once in 12 months to check battery health. (d) Keep the battery top clean with the help of a dry cotton cloth periodically. Inspect the inter-unit connection points for any sulfation etc. The inter-unit connection are to be checked for tightness once a year. (e) If battery bank is placed on steel racks / cabinets ensure an insulation between the battery base and the steel tray. This could be a coat of durable (acid-resistant) paint or any other insulating medium. Steel racks should preferably be well grounded.

Statutory Notice: All batteries contain lead, which is harmful for human beings and environment. As per statutory requirements, the used battery must be returned to the authorized dealer, manufacturer or at the designated collection centres.



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