

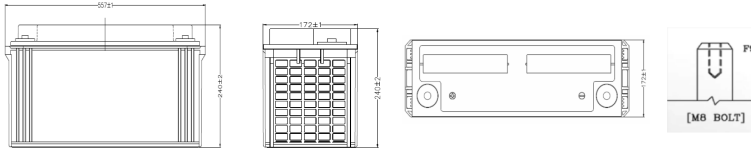


LEAD ACID (AGM) BATTERY

MD-150 Premium

by EXIDE

TECHNICAL DATA SHEET FOR MD-150 Premium (12V 150AH) VRLA BATTERY



CONSTRUCTION:

- ▶ Positive and negative plates in lead-tin-calcium alloy. ▶ Separator - low resistance micro porous glass fiber. ▶ The electrolyte is absorbed within this material, preventing acid leakage in case of accidental damage. ▶ Terminals with a large surface area copper insert to provide maximum conductivity. ▶ Self regulating pressure relief valve with integral flame arrestor. ▶ 100% ensured capacity (through Data-logger) during manufacturing. ▶ Stronger, sturdier & attractive packaging. ▶ Specially suited for UPS & Power Application

FEATURES: -

- ▶ Sealed Maintenance Free . ▶ Free from Orientation Constraints. ▶ Eco Friendly. ▶ Minimal Voltage Drop. ▶ Easy Handling -Easy Installation. ▶ Ready To Use. ▶ Extended Cycle Life. ▶ Low Self Discharge. ▶ Charge Retention & Recovery. ▶ Superior High Rate Discharge. ▶ High Reliability. ▶ Deep Cycle Application
- Performance Characteristics confirming to JISC8702

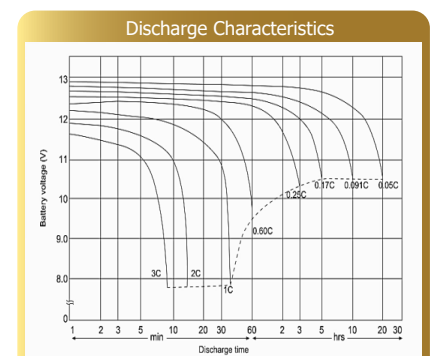
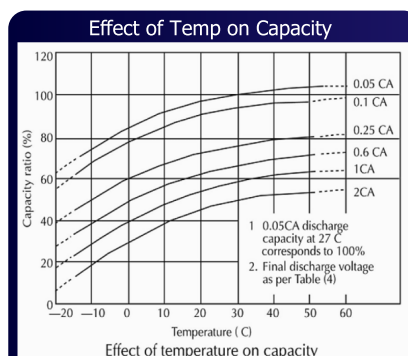
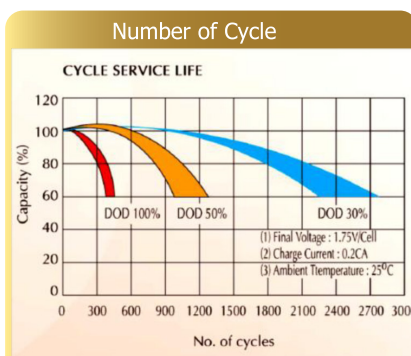
SPECIFICATION CHART

Type of Battery	Nominal Voltage (V)	20 hrs 1.75 V/cell	10 hrs 1.75 V/cell	3 hrs 1.70 V/cell	1.5 hrs 1.70 V/cell	1 hrs 1.60 V/cell	30 mins 1.60 V/cell	Overall Height (±2)	Height up to Lid (±2)	Length (±1)	Width (±1)	Weight ±5% (Kg)
MD-150 Premium	12	150	136.5	112.5	108.0	90.0	75.0	250.0	250.0	536.0	186.0	46.8

NOTES ON OPERATION

Mode of Operation	Voltage setting per 12V unit for ambience Temp. 20 -30 @C	Current setting
FLOAT	13.7V+/-0.1V	Maximum :0.3CA
CYCLE	14.7V +/-0.1V	Minimum: 0.1CA

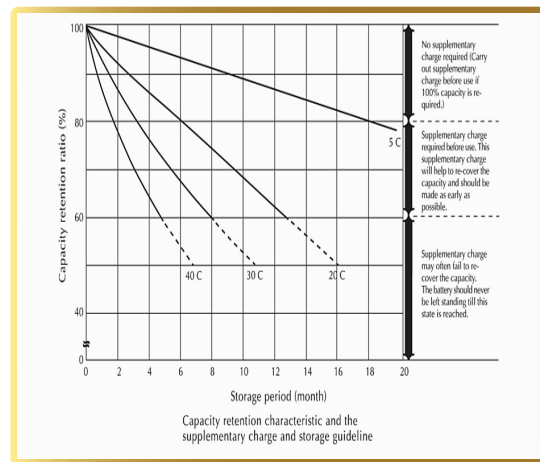
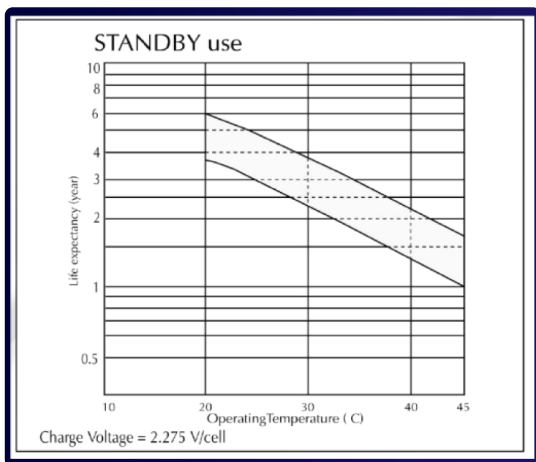
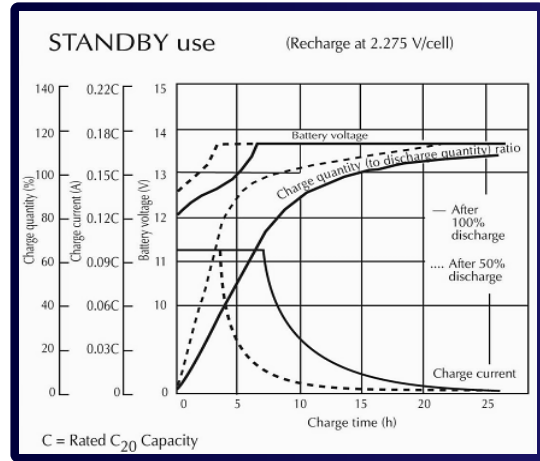
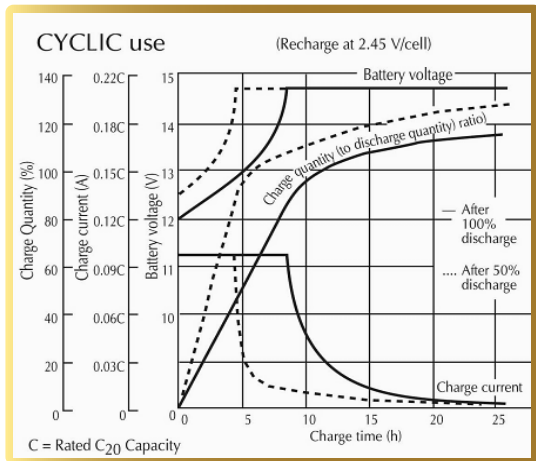
Temperature Compensation : (Reference 25 deg C) FLOAT : -18 mV / deg C/ 12V unit
CYCLIC : - 30 mV / deg C/12V unit



Constant Power Discharge Rating in Watts per Battery for				POWERSAFE NXT Range @27°C			
	AH	5 min	10 min	15 min	20 min	30 min	60 min
Watt/Battery @ 1.6 0V	150 AH	5751	3854	3023	2427	1810	1124
Watt/Battery @ 1.7 0V		5490	3624	2922	2375	1800	1086
Watt/Battery @ 1.80V		4961	3485	2751	2237	1688	1023

Discharge Current & Recommended Final Discharge Voltage

Discharge Current (A)	Final Discharge Voltage(V/Cell)
0.2 C > (A) or intermittent discharge	1.75
0.2 C < or = (A) < 0.5 C	1.70
0.5 C < or = (A) < 1.0 C	1.55
1.0 C < or = (A)	1.30



Product Details	
AH Efficiency	>95%
WH Efficiency	>84%
Operating Temperature Range	(-)5°C to 40°C
Self Discharge/Month @ 27deg C	5% of Rated Capacity
Recommended period of storage	3 months from the date of dispatch and to be stored in a covered place at 27 °C
Material of container	PPCP
Type of +ve & -ve plate	Flat Pasted
Recommended Terminal Torque	12.3 N-m

MAXIMUM DISCHARGE CURRENT FOR VARIOUS DURATION & CUT -OFF VOLTAGE

END VOLTAGE/ CELL	TEMP(C)	DISCHARGE TIME														
		0.5min	1 min	5min	10min	15min	20min	30min	1 hrs	1.5 hrs	2 hrs	3 hrs	4 hrs	6 hrs	8 hrs	10 hrs
1.80	25	3.2C	3.15C	2.6C	2.0C	1.65C	1.4C	1.1C	0.64C	0.42C	0.36C	0.270C	0.210C	0.145C	0.110C	0.090C
	5	2.55C	2.4C	2.0C	1.65C	1.3C	1.1C	0.95C	0.59C	0.34C	0.29C	0.230C	0.182C	0.129C	0.098C	0.080C
	-5	2.1C	2.05C	1.6C	1.3C	1.0C	0.86C	0.76C	0.48C	0.28C	0.24C	0.198C	0.154C	0.115C	0.087C	0.071C
1.70	25	4.3C	4.2C	3.2C	2.3C	1.8C	1.5C	1.15C	0.67C	0.48C	0.40C	0.290C	0.230C	0.165C	0.130C	0.108C
	5	3.8C	3.65C	2.5C	1.8C	1.5C	1.2C	1.0C	0.62C	0.39C	0.32C	0.250C	0.199C	0.143C	0.116C	0.096C
	-5	2.9C	2.7C	2.0C	1.6C	1.2C	1.0C	0.86C	0.53C	0.32C	0.27C	0.213C	0.168C	0.123C	0.103C	0.086C
1.65	25	4.85C	4.7C	3.35C	2.35C	1.85C	1.55C	1.2C	0.69C	0.50C	0.41C	0.300C	0.240C	0.170C	0.135C	0.110C
	5	3.9C	3.8C	2.6C	1.9C	1.6C	1.3C	1.05C	0.64C	0.40C	0.33C	0.260C	0.208C	0.147C	0.120C	0.098C
	-5	3.1C	3.0C	2.1C	1.6C	1.25C	1.05C	1.88C	0.54C	0.34C	0.27C	0.220C	0.176C	0.125C	0.107C	0.087C
1.60	25	5.4C	5.2C	3.5C	2.4C	1.9C	1.6C	1.25C	0.7C	0.51C	0.42C	0.310C	0.250C	0.180C	0.140C	0.115C
	5	4.0C	3.9C	2.75C	2.0C	1.7C	1.4C	1.10C	0.66C	0.41C	0.34C	0.270C	0.216C	0.156C	0.125C	0.102C
	-5	3.3C	3.2C	2.2C	1.65C	1.3C	1.1C	0.9C	0.55C	0.34C	0.28C	0.227C	0.183C	0.132C	0.111C	0.091C

Note: C represents the C20 rated capacity