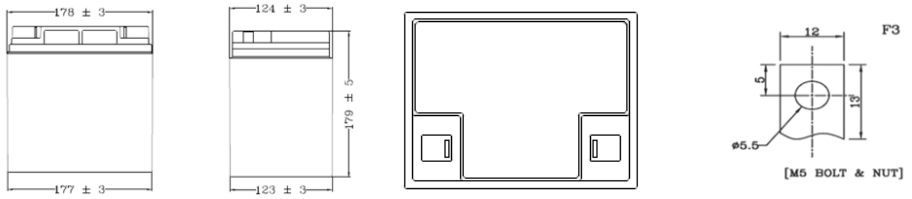
LEAD ACID (AGM) BATTERY

MD-26 Premium

by EXIDE

TECHNICAL DATA SHEET FOR MD-26 Premium (12V 26AH) VRLA BATTERY



CONSTRUCTION: : # Pb-CaSn alloy for current collection. # Low Temperature Vaporous Curing (LTVC), a novel process, for positive plate generation. # Doubly sealed robust terminals having Se reinforcement, 100% ensured capacity (through Data-logger) during manufacturing. # Improved aesthetics with Optional brightener. # Stronger, sturdier & attractive packaging. # Specially suited for UPS & Power Application.

FEATURES:-

International Size. # free from Orientation Constraints. # Eco-Friendly. #Easy Handling. #Ready to Use. # Long Service Life. # Low Self-discharge. # Excellent Charge retention & recovering ability. # Superior High Rate Discharge. # High Reliability.

SPECIFICATION CHART

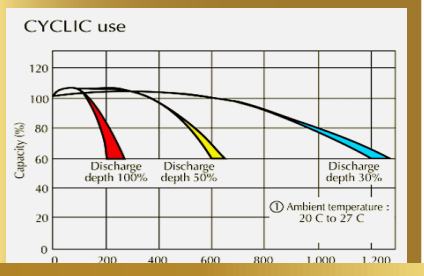
Battery Type	Nominal Voltage (V)	Rated Capacity (Ah) at 27°C						Dimensions (mm)				Weight (Kg) (+/-5%)
		20 hr 1.75V/cell	10 hr 1.75V/cell	3 hr 1.7 V/cell	1.5 hr 1.7V/cell	1 hr 1.6V/cell	30mins. 1.6V/cell	Overall Height ±2	Height up to lid top ±2	Length ±1	Width ±1	
MD - 26	26	26	24	19.5	18.7	15.6	13	179.0	179.0	178.0	124.0	9.5

Float Life 5Years. **Performance Characteristics confirming to JISC8702**

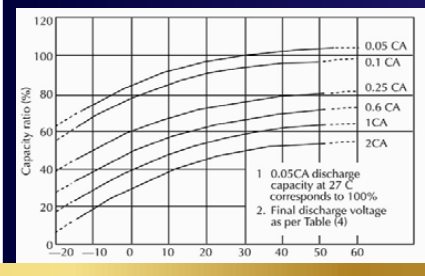
NOTES ON OPERATION

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

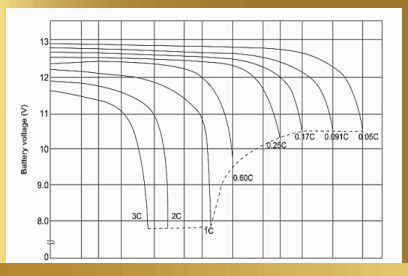
Number of Cycle



Effect of Temp on Capacity



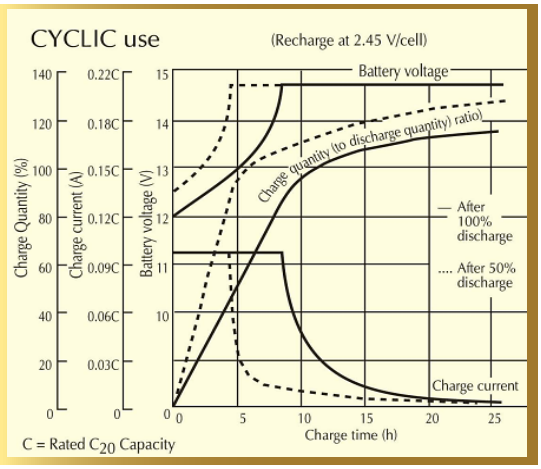
Discharge Characteristics

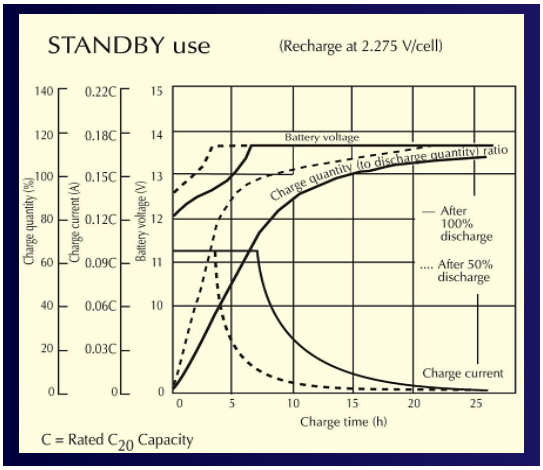


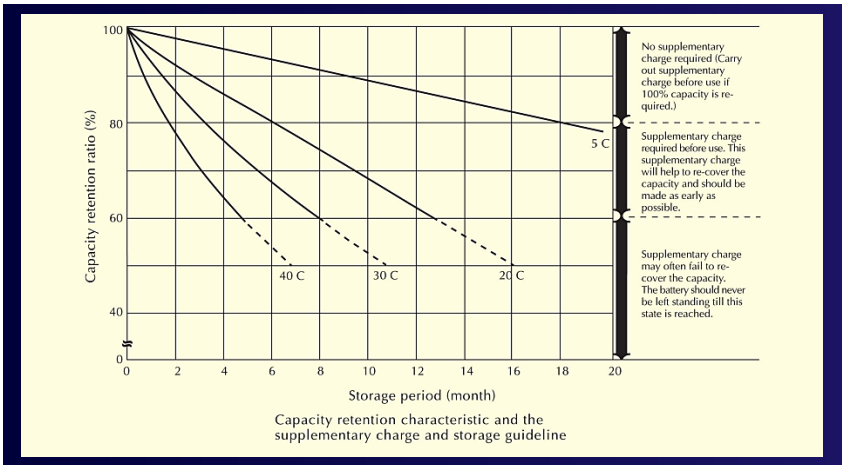
Constant Power Discharge Rating in Watts per Battery for POWERSAFE PLUS @27°C							
	AH	5Min	10Min	15Min	20Min	30Min	60Min
Watt/Battery @ 1.6V	26AH	1059	716	556	449	320	200
Watt/Battery @ 1.7V		1006	705	536	436	313	193
Watt/Battery @ 1.80V		905	637	497	408	293	185

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 despatch and to be stored in a covered place at 27 °C
Material of container	ABS
Type of +ve & -ve plate	Flat Pasted
Recommended Terminal Torque	2.5 N-m

MAXIMUM DISCHARGE CURRENT FOR VARIOUS DURATION & CUT-OFF VOLTAGE

End VoL./ Cell	Temp	0.5 min	1 min	2 min	3 min	4 min	5 min	7 min	10 min	15 min	20 min	30 min	1 hrs	2 hrs	3 hrs	4 hrs	6 hrs	8 hrs	10 hrs
1.8	25	4.0C	3.9C	3.8C	3.7C	3.5C	3.2C	2.8C	2.3C	1.8C	1.5C	1.1C	0.64C	0.36C	0.270C	0.210C	0.145C	0.110C	0.090C
	25	3.2C	3.15C	3.1C	3.0C	2.8C	2.6C	2.3C	2.0C	1.65C	1.4C								
1.7	25	5.6C	5.1C	4.9C	4.3C	4.0C	3.6C	3.0C	2.5C	1.9C	1.6C	1.15C	0.67C	0.40C	0.290C	0.230C	0.165C	0.130C	0.108C
	25	4.3C	4.2C	4.0C	3.7C	3.4C	3.2C	2.7C	2.3C	1.8C	1.5C								
1.65	25	6.6C	5.9C	5.2C	4.6C	4.2C	3.8C	3.2C	2.7C	2.0C	1.65C	1.2C	0.69C	0.41C	0.300C	0.240C	0.170C	0.135C	0.110C
	25	4.85C	4.7C	4.45C	4.05C	3.65C	3.35C	2.85C	2.35C	1.85C	1.55C								
1.6	25	7.6C	6.7C	5.6C	4.9C	4.4C	3.9C	3.3C	2.8C	2.1C	1.7C	1.25C	0.7C	0.42C	0.310C	0.250C	0.180C	0.140C	0.115C
	25	5.4C	5.2C	4.9C	4.4C	3.9C	3.5C	3.0C	2.4C	1.9C	1.6C								
1.8	5	3.2C	3.0C	2.7C	2.5C	2.3C	2.2C	1.9C	1.75C	1.4C	1.2C	0.95C	0.59C	0.29C	0.230C	0.182C	0.129C	0.098C	0.080C
	5	2.55C	2.4C	2.35C	2.3C	2.15C	2.0C	1.8C	1.65C	1.3C	1.1C								
1.7	5	5.1C	4.6C	3.9C	3.4C	3.0C	2.8C	2.4C	2.0C	1.6C	1.3C	1.0C	0.62C	0.32C	0.250C	0.199C	0.143C	0.116C	0.096C
	5	3.8C	3.65C	3.4C	3.15C	2.8C	2.5C	2.1C	1.8C	1.5C	1.2C								
1.65	5	5.6C	4.9C	4.1C	3.6C	3.15C	2.95C	2.5C	2.1C	1.7C	1.4C	1.05C	0.64C	0.33C	0.260C	0.208C	0.147C	0.120C	0.098C
	5	3.9C	3.8C	3.6C	3.3C	2.9C	2.6C	2.2C	1.9C	1.6C	1.3C								
1.6	5	6.1C	5.2C	4.3C	3.8C	3.3C	3.1C	2.6C	2.2C	1.8C	1.5C	1.10C	0.66C	0.34C	0.270C	0.216C	0.156C	0.125C	0.102C
	5	4.0C	3.9C	3.75C	3.5C	3.1C	2.75C	2.3C	2.0C	1.7C	1.4C								
1.8	-5	2.5C	2.4C	2.2C	2.1C	1.9C	1.8C	1.6C	1.4C	1.1C	0.96C	0.76C	0.48C	0.24C	0.198C	0.154C	0.115C	0.087C	0.071C
	-5	2.1C	2.05C	2.0C	1.95C	1.8C	1.6C	1.5C	1.3C	1.0C	0.86C								
1.7	-5	3.6C	3.4C	3.0C	2.8C	2.5C	2.3C	2.0C	1.7C	1.3C	1.1C	0.86C	0.53C	0.27C	0.213C	0.168C	0.123C	0.103C	0.086C
	-5	2.9C	2.7C	2.65C	2.6C	2.3C	2.0C	1.85C	1.6C	1.2C	1.0C								
1.65	-5	4.4C	3.9C	3.3C	2.9C	2.6C	2.4C	2.1C	1.7C	1.35C	1.15C	1.88C	0.54C	0.27C	0.220C	0.176C	0.125C	0.107C	0.087C
	-5	3.1C	3.0C	2.9C	2.7C	2.35C	2.1C	1.9C	1.6C	1.25C	1.05C								
1.6	-5	5.1C	4.4C	3.5C	3.0C	2.7C	2.5C	2.2C	1.75C	1.4C	1.2C	0.9C	0.55C	0.28C	0.227C	0.183C	0.132C	0.111C	0.091C
	-5	3.3C	3.2C	3.1C	2.75C	2.4C	2.2C	2.0C	1.65C	1.3C	1.1C								

The Nos. in coloured line shows the discharge current of rated capacity above 17ah .
& all Capacity @20hrs

www.marvel-tech.ca
info@marvel-battery.com