

550-759/760

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G D IMPORTS

P. 02



September 13, 1993

TO: Tom Richardson  
 FM: Chris Halasz  
 RE: Lamp Ratings

Tom;

The data below display the technical information you requested regarding lamps for the Mag-Lite® and Mini Maglite® products. Voltages are DC regulated, amperes are listed relative to the given voltage. The lamp lifetime is also given for regulated DC voltage, approximating median battery potential. If the consumer frequently changes batteries with fresh cells, the relative life will be diminished, as the average voltage would be much higher.

Lamp	Voltage	Amperes	Lifetime
LMZA001	2.3 V	.300 A	20 Hrs
PR2	2.4	.50	15
PR 3	3.6	.50	15
PR13	4.8	.50	15
PR12	6.0	.50	15
PR18	7.2	.50	15
PR20	8.4	.50	15
WSA2	2.4	.67	36
WSA3	3.6	.60	36
WSA4	4.8	.60	36
WSA5	6.0	.60	36
WSA6	7.2	.60	36
Rechargeable	6.0	2.0	50

A reference was made in your request for information regarding the halogen lamps for the AA Mini Maglite®. Only the Mag-Lite® Rechargeable system uses a halogen lamp. The Mini Maglite® flashlights use vacuum incandescent lamps.

cc: Tony/Claire Maglica  
 John Wyatt  
 Jim Zecchini

RE: Estimated Replacement Lamp Life

We have included updated lamp life information. The estimated lamp life for our replacement lamps is estimated as follows:

All <u>AAA</u> cell products:	3 - 4 sets of batteries
All <u>AA</u> cell products:	4 - 5 sets of batteries
All <u>C</u> cell products (WSA & MSA):	4 - 5 sets of batteries
All <u>D</u> cell products (WSA & MSA):	2 - 3 sets of batteries

The data reflect continuous on time for each respective lamp with contiguous battery sets run until capacity is fully depleted.