

SINGLE FILAMENT LAMPS

S-8 and S-11 single contact, prefocused marine signal lamps may be used on all standard flasher/lampchanger units. Their rated life is 1000 hours.

CALCULATING DAILY POWER CONSUMPTION

An example of the daily power consumption of a light comprising 0.77 amp C8 lamp, APF 247P Flasher and lampchanger, and exhibition a character.

$$0.4 + \underline{0.5} + 0.4 + \underline{0.5} + 1.2 + \underline{12.0} = 15 \text{ secs}$$

From surge factor table

$$.4 \text{ sec "on"} = .37$$

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$$1.0 \text{ sec "on"} = .83$$

$$.2 \text{ sec "on"} = \underline{.21}$$

$$1.78 \text{ amp sec } \div 15 \text{ secs} \\ = 0.1187 \text{ amp average.}$$

$$0.1187 \text{ amp (avg)} \times 14 \text{ hrs/day} \\ = 1.661 \text{ AH/day}$$

$$\text{Flasher and lampchanger power} \\ \text{consumption (avg)} = 0.20 \text{ AH/day}$$

$$\text{Total daily consumption} = 1.861 \text{ AH/day}$$

The APF-247P flasher consumes 0.14 amp-hour per day. This is significant for small lamps on short duty cycles and should be added to the calculations.

SURGE FACTOR TABLE

Lamp Current (amps)	Contact Closure (seconds)													
	.1	.2	.3	.4	.5	.6	.7	.8	.9	1.0	1.5	2.0	2.5	3.0
.25	.05	.08	.10	.13	.15	.18	.20	.23	.25	.28	.40	.53	.65	.78
.46	.08	.13	.17	.22	.26	.31	.35	.40	.45	.49	.72	.95	1.18	1.41
.50	.10	.15	.19	.24	.29	.34	.39	.44	.49	.54	.79	1.04	1.29	1.54
.55	.10	.16	.21	.27	.33	.38	.44	.49	.55	.60	.88	1.15	1.43	1.70
.70	.12	.19	.26	.33	.40	.47	.54	.61	.68	.75	1.10	1.45	1.80	2.15
.77	.13	.21	.29	.37	.45	.52	.60	.68	.76	.83	1.22	1.60	1.99	2.37
.92	.15	.25	.34	.43	.53	.62	.71	.80	.89	.99	1.45	1.91	2.37	2.83
1.00	.17	.27	.37	.47	.57	.67	.77	.87	.97	1.07	1.57	2.07	2.57	3.07
1.15	.19	.31	.43	.54	.66	.77	.89	1.00	1.12	1.23	1.81	2.38	2.96	3.53
1.40	.24	.38	.52	.66	.80	.94	1.08	1.22	1.36	1.50	2.20	2.90	3.60	4.30
2.00	.32	.54	.74	.96	1.15	1.36	1.56	1.76	1.96	2.16	3.16	4.16	5.16	6.16
2.03	.33	.55	.77	.96	1.17	1.37	1.57	1.77	1.98	2.18	3.19	4.21	5.22	6.24
3.00	.50	.82	1.12	1.42	1.73	2.03	2.33	2.63	2.93	3.23	4.73	6.23	7.73	9.23
3.05	.50	.84	1.16	1.46	1.77	2.08	2.38	2.69	2.99	3.30	4.82	6.35	7.87	9.40
5.00	.81	1.37	1.90	2.40	2.90	3.40	3.90	4.40	4.90	5.40	7.90	10.40	12.90	15.40