

PRB-24 PARABOLIC REFLECTOR ARRAY

The unsurpassed economy of the Pharos Marine gearless motor, together with developments in light sources and revolving arrays of parabolic reflectors have made it possible for a character of for example, fl10 or fl(2)20 to achieve 22 nautical miles range (in "Nominal Range" $T=0.74$ atmosphere) with only a total power consumption of 84 watts. This can be provided, even in regions of poor climate, using solar power converters in a self-contained arrangement.

FEATURES

Operates from a nominal 12 volt DC supply

This high efficiency assembly is particularly suitable for operation from solar energy systems

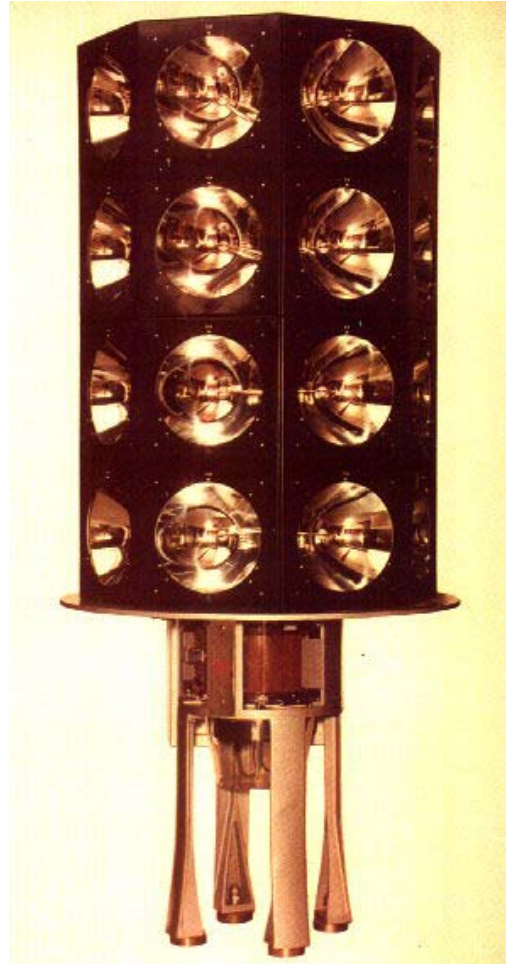
Automatic selection of reserve lamps in the event of service lamp failure

Up to eleven reserve lamps possible (character dependent)

Spun parabolic reflector fitted with 12 volt quartz halogen lamps of 40 or 55 watts

Extensive monitoring and control facilities

Photo-electric daylight control



Pharos Marine  **Automatic Power**

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PRB-24 SPECIFICATIONS

| | Total No. of lamps each column | Clear glazing height required | Nett weight (approx) | Gross weight (approx) |
|----------|--------------------------------|-------------------------------|----------------------|-----------------------|
| PRB-24/2 | 12 | 670MM | 500Kgs | 800Kgs |
| PRB-24/4 | 24 | 1380mm | 560Kgs | 860Kgs |

LUMINOUS RANGE TABLE

| Lamp size | 12 volt 40 watt | | 12 volt 55 watt | |
|---|-----------------|-------------|-----------------|-------------|
| | 1 | 2 | 1 | 2 |
| Lamps per beam | 1 | 2 | 1 | 2 |
| Beam divergence (degrees) | 2.5° | 2.5° | 3.0° | 3.0° |
| Power consumption | 45 | 85 | 60 | 115 |
| Stationary intensity (1 ₀)* | 675,000 | 1,350,000 | 810,000 | 1,620,000 |
| 1 RPM flash length (secs) | 0.42 | 0.42 | 0.5 | 0.5 |
| intensity (1 ₀)* cd | 393,750 | 787,500 | 506,000 | 1,012,500 |
| Range T=0.74 (0.85) | 32.2 (37.1) | 25.1 (40.4) | 23.9 (38.3) | 25.7 (41.5) |
| 2 RPM flash length (secs) | 0.21 | 0.21 | 0.25 | 0.25 |
| intensity (1 ₀)* cd | 277,941 | 558,882 | 368,182 | 736,364 |
| Range T = 0.74 (0.85) | 22.4 (38.7) | 24.2 (38.7) | 23.1 (36.8) | 24.9 (40.1) |
| 3 RPM flash length (secs) | 0.14 | 0.14 | 0.17 | 0.17 |
| intensity (1 ₀)* cd | 214,773 | 429,546 | 292,979 | 586,957 |
| Range T = 0.74 (0.85) | 21.6 (34.4) | 23.5 (37.5) | 22.5 (35.8) | 24.3 (39.0) |

• Includes 10% reduction for lantern house glazing

TYPICAL REFLECTOR ARRANGEMENTS

