

SunPumps Brushless DC Submersible **MODEL SCS 5-95**

1/2 HP Motor

| PSI | TDH Feet | TDH Meters | Motor Voltage | Motor Amps | U.S. GPM | LPM | Motor Watts | Panel Watts * | System Efficiency |
|-----|----------|------------|---------------|------------|----------|------|-------------|---------------|-------------------|
| 0 | 0 | 0.0 | 30 | 4.54 | 7.3 | 27.6 | 136 | 170 | 0% |
| 5 | 12 | 3.5 | 30 | 4.60 | 6.5 | 24.6 | 138 | 173 | 10% |
| 10 | 23 | 7.0 | 30 | 4.67 | 5.7 | 21.6 | 140 | 175 | 18% |
| 15 | 35 | 10.6 | 30 | 4.69 | 4.8 | 18.2 | 141 | 176 | 22% |
| 20 | 46 | 14.1 | 30 | 4.65 | 3.7 | 14.0 | 140 | 174 | 23% |
| 25 | 58 | 17.6 | 30 | 4.52 | 2.4 | 9.1 | 136 | 170 | 19% |
| 30 | 69 | 21.1 | 30 | 4.25 | 1.2 | 4.5 | 128 | 159 | 12% |
| 35 | 81 | 24.6 | 30 | 4.13 | 0.0 | 0.0 | 124 | 155 | 0% |

Suggested solar module array: 2-90 to 100 watt modules wired in series.

| PSI | TDH Feet | TDH Meters | Motor Voltage | Motor Amps | U.S. GPM | LPM | Motor Watts | Panel Watts * | System Efficiency |
|-----|----------|------------|---------------|------------|----------|------|-------------|---------------|-------------------|
| 0 | 0 | 0.0 | 45 | 6.85 | 10.8 | 40.9 | 308 | 385 | 0% |
| 5 | 12 | 3.5 | 45 | 6.90 | 10.3 | 38.8 | 311 | 388 | 7% |
| 10 | 23 | 7.0 | 45 | 6.96 | 9.7 | 36.7 | 313 | 392 | 13% |
| 15 | 35 | 10.6 | 45 | 7.01 | 9.0 | 34.2 | 315 | 394 | 19% |
| 20 | 46 | 14.1 | 45 | 7.07 | 8.3 | 31.4 | 318 | 398 | 23% |
| 25 | 58 | 17.6 | 45 | 7.11 | 7.6 | 28.8 | 320 | 400 | 26% |
| 30 | 69 | 21.1 | 45 | 7.12 | 6.9 | 25.9 | 320 | 401 | 28% |
| 35 | 81 | 24.6 | 45 | 7.10 | 6.1 | 23.1 | 320 | 399 | 29% |
| 40 | 92 | 28.2 | 45 | 7.04 | 5.3 | 20.1 | 317 | 396 | 29% |
| 45 | 104 | 31.7 | 45 | 6.93 | 4.5 | 17.0 | 312 | 390 | 28% |
| 50 | 116 | 35.2 | 45 | 6.79 | 3.7 | 14.0 | 306 | 382 | 26% |
| 55 | 127 | 38.7 | 45 | 6.59 | 2.8 | 10.6 | 297 | 371 | 23% |
| 60 | 139 | 42.3 | 45 | 6.35 | 1.9 | 7.2 | 286 | 357 | 17% |
| 65 | 150 | 45.8 | 45 | 6.35 | 1.0 | 3.8 | 286 | 357 | 10% |
| 70 | 162 | 49.3 | 45 | 6.15 | 0.0 | 0.0 | 277 | 346 | 0% |

* Peak Panel Watts using a 20% deration factor.

Suggested solar module array: 6-70 to 80 watt modules wired in 2 parallel strings of 3 in series.