

**Technical Note****PROsine 2.5/3.0**

512-0006-01-01 Rev 1

**Recommended DC Cable Sizes –  
Marine/RV Use****Recommended Cable Sizes****PROsine 2.5/12 VDC**

<b>Distance from battery</b>	<b>Cable size<sup>1</sup></b>	<b>OHM/1000 ft</b>	<b>Voltage drop<sup>2</sup></b>
5 ft	4/0	0.05	0.13 VDC
10 ft	250 MCM	0.0423	0.21 VDC
15 ft	350 MCM	0.0302	0.23 VDC
20 ft	500 MCM	0.02116	0.21 VDC
30 ft	750 MCM	0.0141	0.21 VDC

**PROsine 3.0/12 VDC**

<b>Distance from battery</b>	<b>Cable size<sup>3</sup></b>	<b>Ohm/1000 ft</b>	<b>Voltage drop<sup>4</sup></b>
5 ft	4/0	0.05	0.15 VDC
10 ft	350 MCM	0.0302	0.18 VDC
15 ft	500 MCM	0.02116	0.19 VDC
20 ft	750 MCM	0.0141	0.17 VDC
30 ft	1000 MCM	0.01058	0.19 VDC

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<sup>1</sup> Meets or exceeds industry standards.

<sup>2</sup> All voltage drops are measured with a load of 2520 watts

<sup>3</sup> Meets or exceeds industry standards.

<sup>4</sup> All voltage drops are measured with a load of 3024 watts

**PROsine 2.5/24VDC**

<b>Distance from battery</b>	<b>Cable size<sup>5</sup></b>	<b>Ohm/1000 ft</b>	<b>Voltage drop<sup>6</sup></b>
5 ft	2/0	0.079	0.10
10 ft	3/0	0.063	0.16
15 ft	4/0	0.05	0.19
20 ft	250 MCM	0.0423	0.21
30 ft	500 MCM	0.02116	0.16

**PROsine 3.0/24VDC**

<b>Distance from battery</b>	<b>Cable size<sup>7</sup></b>	<b>Ohm/1000 ft</b>	<b>Voltage drop<sup>8</sup></b>
5 ft	3/0	0.063	0.09
10 ft	4/0	0.05	0.15
15 ft	250 MCM	0.0423	0.19
20 ft	350 MCM	0.0302	0.18
30 ft	500 MCM	0.02116	0.19

**Recommended Cable Sizes – Residential Use**

**PROsine 2.5/12VDC**

<b>Distance from battery</b>	<b>Cable size<sup>9</sup></b>	<b>Ohm/1000 ft</b>	<b>Voltage drop<sup>10</sup></b>
15 ft	350 MCM	0.0302	0.23 VDC
20 ft	500 MCM	0.02116	0.21 VDC
30 ft	750 MCM	0.0141	0.21 VDC

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<sup>5</sup> Meets or exceeds industry standards.

<sup>6</sup> All voltage drops are measured with a load of 2520 watts

<sup>7</sup> Meets or exceeds industry standards.

<sup>8</sup> All voltage drops are measured with a load of 3024 watts

<sup>9</sup> Meets or exceeds industry standards.

<sup>10</sup> All voltage drops are measured with a load of 2520 watts

**PROsine 3.0/12VDC**

<b>Distance from battery</b>	<b>Cable size<sup>11</sup></b>	<b>Ohm/1000 ft</b>	<b>Voltage drop<sup>12</sup></b>
15 ft	500 MCM	0.02116	0.19 VDC
20 ft	750 MCM	0.0141	0.17 VDC
30 ft	1000 MCM	0.01058	0.19 VDC

**PROsine 2.5/24VDC**

<b>Distance from battery</b>	<b>Cable size<sup>13</sup></b>	<b>Ohm/1000 ft</b>	<b>Voltage drop<sup>14</sup></b>
15 ft	4/0	0.05	0.19
20 ft	250 MCM	0.0423	0.21
30 ft	500 MCM	0.02116	0.16

**PROsine 3.0/24VDC**

<b>Distance from battery</b>	<b>Cable size<sup>15</sup></b>	<b>Ohm/1000 ft</b>	<b>Voltage drop<sup>16</sup></b>
15 ft	250 MCM	0.0423	0.19
20 ft	350 MCM	0.0302	0.18
30 ft	500 MCM	0.02116	0.19

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<sup>11</sup> Meets or exceeds industry standards.

<sup>12</sup> All voltage drops are measured with a load of 3024 watts

<sup>13</sup> Meets or exceeds industry standards.

<sup>14</sup> All voltage drops are measured with a load of 2520 watts

<sup>15</sup> Meets or exceeds industry standards.

<sup>16</sup> All voltage drops are measured with a load of 3024 watts

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