

## Inverter Input Wire and Fusing Guide

12 Vdc INVERTER OUTPUT WATTAGE	Inverter min/max fuse size	1 to 10 feet		11 to 15 feet		16 to 20 feet	
		105° AWG	SGX AWG	105° AWG	SGX AWG	105° AWG	SGX AWG
<b>350</b>	<b>35/50</b>	8	<b>8</b>	6	<b>6</b>	6	<b>6</b>
<b>400</b>	<b>40/60</b>	8	<b>8</b>	6	<b>6</b>	6	<b>6</b>
<b>600</b>	<b>60/90</b>	6	<b>6</b>	4	<b>4</b>	4	<b>4</b>
<b>700</b>	<b>70/100</b>	6	<b>6</b>	4	<b>4</b>	2	<b>2</b>
<b>800</b>	<b>80/120</b>	6	<b>6</b>	4	<b>4</b>	2	<b>2</b>
<b>1000</b>	<b>100/150</b>	4	<b>4</b>	2	<b>2</b>	1	<b>1</b>
<b>1200</b>	<b>120/180</b>	4	<b>4</b>	2	<b>2</b>	1	<b>1</b>
<b>1500</b>	<b>150/225</b>	2	<b>2</b>	1	<b>1</b>	1/0	<b>1/0</b>
<b>1600</b>	<b>160/240</b>	2	<b>2</b>	1	<b>1</b>	1/0	<b>1/0</b>
<b>1800</b>	<b>180/270</b>	2	<b>2</b>	1	<b>1</b>	1/0	<b>1/0</b>
<b>2000</b>	<b>200/300</b>	2	<b>2</b>	1/0	<b>1/0</b>	2/0	<b>2/0</b>
<b>2400</b>	<b>240/360</b>	1/0	<b>1/0</b>	2/0	<b>2/0</b>	3/0	<b>3/0</b>
<b>2500</b>	<b>250/375</b>	1/0	<b>1/0</b>	2/0	<b>2/0</b>	3/0	<b>3/0</b>
<b>3000</b>	<b>300/450</b>	2/0	<b>2/0</b>	3/0	<b>3/0</b>	4/0	<b>4/0</b>
<b>3600</b>	<b>360/540</b>	4/0	<b>4/0</b>	4/0	<b>4/0</b>	N/R	<b>N/R</b>

24 Vdc INVERTER OUTPUT WATTAGE	Inverter min/max fuse size	1 to 10 feet		11 to 15 feet		16 to 20 feet	
		105° AWG	SGX AWG	105° AWG	SGX AWG	105° AWG	SGX AWG
<b>400</b>	<b>20/30</b>	10	<b>10</b>	10	<b>10</b>	8	<b>8</b>
<b>500</b>	<b>25/40</b>	10	<b>10</b>	10	<b>10</b>	8	<b>8</b>
<b>800</b>	<b>40/60</b>	8	<b>8</b>	6	<b>6</b>	6	<b>6</b>
<b>1500</b>	<b>75/110</b>	6	<b>6</b>	6	<b>4</b>	4	<b>1</b>
<b>2000</b>	<b>100/150</b>	4	<b>2</b>	4	<b>2</b>	2	<b>1</b>
<b>2200</b>	<b>110/165</b>	4	<b>4</b>	4	<b>2</b>	2	<b>1</b>
<b>2500</b>	<b>125/190</b>	2	<b>2</b>	2	<b>2</b>	1	<b>1</b>
<b>2600</b>	<b>130/200</b>	2	<b>2</b>	2	<b>2</b>	1	<b>1</b>
<b>3200</b>	<b>160/250</b>	1/0	<b>1</b>	1/0	<b>1</b>	2/0	<b>2/0</b>
<b>3300</b>	<b>165/250</b>	1/0	<b>1</b>	1/0	<b>1</b>	2/0	<b>2/0</b>
<b>3600</b>	<b>180/270</b>	1/0	<b>1</b>	1/0	<b>1</b>	2/0	<b>2/0</b>
<b>4800</b>	<b>240/360</b>	2/0	<b>2/0</b>	2/0	<b>2/0</b>	3/0	<b>3/0</b>
<b>5600</b>	<b>280/420</b>	4/0	<b>3/0</b>	4/0	<b>3/0</b>	N/R	<b>4/0</b>
<b>6000</b>	<b>300/450</b>	4/0	<b>3/0</b>	4/0	<b>3/0</b>	N/R	<b>4/0</b>

MAXIMUM FUSE SIZE FOR WIRE GAUGE		
AWG	105° AWG	SGX AWG
<b>10</b>	30A	<b>80A</b>
<b>8</b>	80A	<b>100A</b>
<b>6</b>	100A	<b>150A</b>
<b>4</b>	150A	<b>200A</b>
<b>2</b>	200A	<b>250A</b>
<b>1</b>	225A	<b>300A</b>
<b>1/0</b>	250A	<b>350A</b>
<b>2/0</b>	300A	<b>400A</b>
<b>3/0</b>	350A	<b>500A</b>
<b>4/0</b>	400A	<b>600A</b>

N/R = Not recommended

Use Bussman fuse type ANN and fuse block # 3576

SGX cable type recommended for under the hood applications (J1127).

Wire footage length estimated from inverter to battery.

Wire gauges shown in this table are **minimum**. For large motor loads and other applications with high surge currents, use a wire gauge 1 to 2 sizes larger than shown and keep the wire runs between battery and inverter as short as possible.