NOTES:

1. SEE SOLECTRIA RENEWABLES DOCR-070506 (INSTALLATION AND OPERATION MANUAL, SGI 500XTM-750XTM) FOR COMPLETE INSTALLATION REQUIREMENTS.

2. ALL WIRE SIZING INFORMATION GIVEN IN THIS DRAWING IS FOR REFERENCE PURPOSES ONLY, SEE SOLECTRIA RENEWABLES DOCR-070506 (INSTALLATION AND OPERATION MANUAL, SGI 500XTM-750XTM) FOR DETAILED WIRE SIZING INFORMATION.

3. CUSTOMER INTERFACE DRAWING SHEETS INCLUDE:
   1. FRONT ISOMETRIC
   2. FRONT
   3. REAR
   4. RIGHT
   5. LEFT
   6. TOP
   7. BOTTOM
   8. DC CONDUCTOR CONNECTIONS
   9. DC CONDUCTOR CONNECTIONS
   10. DC GROUND CONNECTIONS
   11. AC CONDUCTOR CONNECTIONS
   12. AC CONDUCTOR CONNECTIONS WITH OPTIONAL AC BREAKER OR DISCONNECT
   13. AC GROUND CONNECTIONS
   14. SIGNAL WIRE ROUTING LOCATIONS
   15. AS SHIPPED ISOMETRIC
   16. RECOMMENDED RIGGING AND LIFTING METHODS

PRODUCT MASS

<table>
<thead>
<tr>
<th>PRODUCT MASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SGI 500XTM</td>
</tr>
<tr>
<td>SGI 750XTM</td>
</tr>
</tbody>
</table>

| INSTALL MASS | 3160 LB |
| LOCATION    |        |
| MASS        | 3360 LB |

SYSTEM MASS IS ESTIMATED ONLY, AND IS FOR THE BASE UNIT WITHOUT OPTIONS.
NOTES:
1. DIMENSIONS INDICATED BY (COG) SHOW APPROXIMATE LOCATION OF THE INVERTER CENTER OF GRAVITY.

MINIMUM DISTANCE THAT MUST BE CLEAR ABOVE THE INVERTER FOR VENTILATION

MINIMUM DISTANCE THAT MUST BE CLEAR TO EACH SIDE OF THE INVERTER FOR VENTILATION

40.5 (COG)

62.9 (COG)

109
NOTES:
1. THE ALTERNATE DC CONDUIT ENTRY LOCATIONS ARE TO BE USED ONLY IF THE FOLLOWING INTEGRAL SUBCOMBINER OPTIONS ARE SELECTED:
   1. ANY NUMBER OF FUSE INPUTS
   2. 6 OR LESS BREAKER INPUTS

EXHAUST SHROUDS

ALTERNATE DC CONDUIT ENTRY LOCATIONS

- EXHAUST SHROUDS
- ALTERNATE DC CONDUIT ENTRY LOCATIONS
- 28 inches
- 36 inches
- 49 inches
NOTES:
1. DIMENSIONS INDICATED BY (COG) SHOW APPROXIMATE LOCATION OF THE INVERTER CENTER OF GRAVITY.
8 MOUNTING LOCATIONS FOR EXTERNAL ACCESSORIES
THREAD SIZE: 1/4-20
THREAD DEPTH: 0.310

ALTERNATE SIGNAL WIRE ENTRY LOCATION

WITHOUT AIR FILTER OPTION

WITH AIR FILTER OPTION
MINIMUM DISTANCE THAT MUST BE CLEAR BEHIND THE INVERTER FOR VENTILATION AND MAINTENANCE ACCESS

All dimensions are in inches. Do not scale.
NOTES:
1. DC CONDUCTOR CONNECTIONS ARE DEPENDENT ON SELECTED INTEGRAL SUBCOMBINER. SEE SOLECTRIA RENEWABLES DOCR-070506 [INSTALLATION AND OPERATION MANUAL, SGI 500XTM-750XTM] FOR COMPLETE REQUIREMENTS.

<table>
<thead>
<tr>
<th># OF CONDUCTORS PER INPUT</th>
<th>CONDUCTOR SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1000 MCM MAX.</td>
</tr>
<tr>
<td>2</td>
<td>600 MCM MAX.</td>
</tr>
</tbody>
</table>

DC INPUT CONDUCTOR SIZE

GROUNDED DC CONDUCTOR INSTALLATION LOCATIONS

UNGROUNDED DC CONDUCTOR INSTALLATION LOCATIONS

MAXIMUM CONNECTION HEIGHT FOR GROUNDED DC CONDUCTOR INSTALLATION

MAXIMUM CONNECTION HEIGHT FOR UNGROUNDED DC CONDUCTOR INSTALLATION

SECTION VIEW : LEFT INTERIOR WALL
NOTES:
1. DC CONDUCTOR CONNECTIONS ARE DEPENDENT ON SELECTED INTEGRAL SUBCOMBINER. REFERENCE SOLECTRIA RENEWABLES DOCR-070506 (INSTALLATION AND OPERATION MANUAL, SGI 500XTM-750XTM) FOR COMPLETE REQUIREMENTS.
2. REAR INTERIOR WALL DC CONDUCTOR CONNECTION LOCATIONS APPLY ONLY TO UNGROUNDED CONDUCTORS FOR INTEGRAL DC BREAKER SUBCOMBINER IN EXCESS OF 6 INPUTS. REAR INTERIOR WALL DC CONDUCTOR CONNECTION LOCATIONS DO NOT APPLY TO INTEGRAL FUSE SUBCOMBINER.

<table>
<thead>
<tr>
<th>DC INPUT CONDUCTOR SIZE</th>
<th># OF CONDUCTORS PER INPUT</th>
<th>CONDUCTOR SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>1000 MCM MAX.</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>600 MCM MAX.</td>
</tr>
</tbody>
</table>

MINIMUM 9
MAXIMUM CONNECTION HEIGHT FOR UNGROUNDED DC CONDUCTOR INSTALLATION

SECTION VIEW : REAR INTERIOR WALL
### DC Ground Conductor Size

<table>
<thead>
<tr>
<th># of Lugs</th>
<th># of Conductors</th>
<th># of Conductors Per Lug</th>
<th>Conductor Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEC</td>
<td>1</td>
<td>1</td>
<td>1/0 AWG to 750 MCM</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>2</td>
<td>1/0 AWG to 300 MCM</td>
</tr>
<tr>
<td>EGC</td>
<td>32</td>
<td>1</td>
<td>14 AWG to 1/0 AWG</td>
</tr>
</tbody>
</table>

**DC Ground Conductor Connection Locations**

- **GEC LUG**: 10.75 in
- **EGC LUGS**: 18.25 in
- **0.5 in**: 14 in

**Section View**: Left Interior Wall

---

**Notes**:
- All dimensions are in inches. Do not scale.
- Please note: all information contained within this document is subject to change without notice.

**ISO 04-04-26 REV. B**

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**Customer Interface Drawing**

**YASKAWA SOLECTRIA SOLAR**

**SGI 500/750XTM**

**DC Ground Connections**

**Document**: DOCR-070352 C

**View**: Product

**Scale**: 1:32

**Sheet**: 10 of 16

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**SGO 04-24-26 REV. B**
### AC Output Conductor Size

<table>
<thead>
<tr>
<th># of Lugs Per Phase</th>
<th># of Conductors Per Lug</th>
<th># of Conductors Per Phase</th>
<th>Conductor Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>1</td>
<td>Up to 6</td>
<td>300 to 800 MCM</td>
</tr>
</tbody>
</table>

- **Detail**: AC Conductor Connections with Optional AC Breaker or Disconnect Installed

---

**View Shown with AC Customer Wire Cover Panels in Place**

**View Shown with AC Customer Wire Cover Panels Removed**
AC GROUND CONDUCTOR SIZE

<table>
<thead>
<tr>
<th># OF LUGS</th>
<th># OF CONDUCTORS PER LUG</th>
<th># OF CONDUCTORS</th>
<th>CONDUCTOR SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>1</td>
<td>UP TO 9</td>
<td>1/0 AWG TO 750 MCM</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>UP TO 18</td>
<td>1/0 AWG TO 300 MCM</td>
</tr>
</tbody>
</table>

RIGHT INTERIOR WALL VIEW SHOWN WITH AC CUSTOMER WIRE COVER PANELS IN PLACE

VIEW SHOWN WITH AC CUSTOMER WIRE COVER PANELS REMOVED

SECTION VIEW: RIGHT INTERIOR WALL
NOTES:
1. THE INVERTER IS SHIPPED ON AN OVERSIZED SHIPPING PALLET. IT IS RECOMMENDED TO KEEP THE INVERTER SECURED TO THE PALLET AND MOVED AS CLOSE AS POSSIBLE TO THE FINAL LOCATION PRIOR TO REMOVING THE PALLET.
NOTES:
1. RECOMMENDED SINGLE POINT LIFTING METHOD SHOWN. SEE SOLECTRIA RENEWABLES DOCR-070506 (INSTALLATION AND OPERATION MANUAL, SGI 500XTM-750XTM) FOR PREFERRED LIFTING METHODS AND ADDITIONAL LIFTING AND INSTALLATION REQUIREMENTS.