<table>
<thead>
<tr>
<th>Sheet No.</th>
<th>Component /Detail</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Drawing Guide</td>
<td>MGE Galaxy 3500 10-30kVA, 1 MOD Wide With SBP Drawing Guide</td>
</tr>
<tr>
<td>2-4</td>
<td>Solution</td>
<td>MGE Galaxy 3500 Wider Tower 10-30kVA 1 MOD, SBP, 208V.</td>
</tr>
<tr>
<td>5-6</td>
<td>UPS</td>
<td>MGE Galaxy 3500 10-30kVA 208V, Wider Tower</td>
</tr>
<tr>
<td>7</td>
<td>SBP</td>
<td>MGE Galaxy 3500 Maintenance Bypass Panel, FloorMount, 208V</td>
</tr>
<tr>
<td>8-10</td>
<td>System One Line Diagram</td>
<td>MGE Galaxy 3500 10-30kVA 208V, 1MOD with SBP System One Line Diagram</td>
</tr>
<tr>
<td>11</td>
<td>System Wiring Diagram</td>
<td>MGE Galaxy 3500 10-30kVA 208V, 1MOD with SBP System Control Wiring Diagram</td>
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</table>

**LEGEND**

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td><img src="symbol.png" alt="Switch Disconnect Symbol" /></td>
<td>SWITCH DISCONNECT</td>
</tr>
<tr>
<td><img src="symbol.png" alt="Circuit Breaker Symbol" /></td>
<td>CIRCUIT BREAKER</td>
</tr>
<tr>
<td><img src="symbol.png" alt="Static Switch Symbol" /></td>
<td>STATIC SWITCH</td>
</tr>
<tr>
<td><img src="symbol.png" alt="Battery Module Symbol" /></td>
<td>BATTERY MODULE</td>
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<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
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<tr>
<td><img src="symbol.png" alt="Inverter Symbol" /></td>
<td>INVERTER</td>
</tr>
<tr>
<td><img src="symbol.png" alt="Converter Symbol" /></td>
<td>CONVERTER</td>
</tr>
<tr>
<td><img src="symbol.png" alt="Normally Open Contact Symbol" /></td>
<td>NORMALLY OPEN CONTACT</td>
</tr>
<tr>
<td><img src="symbol.png" alt="Normally Closed Contact Symbol" /></td>
<td>NORMALLY CLOSED CONTACT</td>
</tr>
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</table>
### Weight and Runtime details for 1 module UPS (10-30kVA) with Maintenance Bypass Cabinet

<table>
<thead>
<tr>
<th>Battery position</th>
<th>No. of bat shelves</th>
<th>Runtime in Min</th>
<th>Net Weight of Solution in lbs</th>
<th>Net Weight of Solution in kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPS 1</td>
<td>991</td>
<td>n.a</td>
<td>450</td>
<td>n.a</td>
</tr>
<tr>
<td>UPS 2</td>
<td>1194</td>
<td>18</td>
<td>542</td>
<td>18</td>
</tr>
<tr>
<td>UPS 3</td>
<td>1396</td>
<td>32</td>
<td>634</td>
<td>32</td>
</tr>
<tr>
<td>UPS 4</td>
<td>1599</td>
<td>47</td>
<td>726</td>
<td>47</td>
</tr>
</tbody>
</table>

**NOTES:**
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT MANUALS FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. CABLE ENTRY IS FROM REAR SIDE OF THE UNIT OR THROUGH CONDUIT BOX.
4. REFER TO UPS DRAWING WITH CONDUIT BOX (PROVIDED ON WEB).
5. FRONT AND REAR SERVICE ACCESS IS REQUIRED.
6. FOR NET WEIGHT OF UNIT, CONFIGURATION AND RUNTIME DETAILS REFER TO TABLE ABOVE.
7. BATTERY RUN TIMES ARE THEORETICAL AND CALCULATED BASED ON DATA PROVIDED BY BATTERY MANUFACTURER ASSUMING OPTIMUM ENVIRONMENT AND LOAD CONDITIONS.
NOTE:
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT MANUALS FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS), UNLESS OTHERWISE SPECIFIED.
4. FRONT AND REAR SERVICE CLEARANCE AND TOP CLEARANCE IS REQUIRED, FOR REAR ACCESS USE FLEXIBLE CONDUIT WITH SUFFICIENT LENGTH TO ALLOW UNIT TO BE MOVED OUT FOR SERVICE.
5. UPS COLOR: GRAY METALLIC
6. ENCLOSURE PROTECTION IP51
7. UPS OPERATING TEMPERATURE: 32°F [0°C] MIN. TO 104°F [40°C] MAX.
   RECOMMENDED OPERATING RANGE: 59°F [15°C] TO 77°F [25°C]
8. CABINET ENTRY IS FROM TOP, BOTTOM OR THROUGH REAR CONDUIT BOX.
9. SERVICE CLEARANCE: GRAY METALLIC.
A10. FOR UPS FLOOR LOADING DATA REFER TO SHEET-10.
A11. THIS INFORMATION PROVIDES APPROPRIATE CENTER OF GRAVITY CALCULATION.

FLOOR LOADING DATA - SBP CABINET

<table>
<thead>
<tr>
<th>SKU Number</th>
<th>Dimensions H x W x D Inch (mm)</th>
<th>Weight in lbs [kg]</th>
<th>Floor Loading Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>G35TSBP10K15F</td>
<td>58.7x13.8x32.9 [1490x352x835]</td>
<td>279 [127]</td>
<td>89 [432]</td>
</tr>
<tr>
<td>G35TSBP20K30F</td>
<td>58.7x13.8x32.9 [1490x352x835]</td>
<td>279 [127]</td>
<td>89 [432]</td>
</tr>
</tbody>
</table>

CENTER OF GRAVITY DETAILS:

<table>
<thead>
<tr>
<th>Rating</th>
<th>SKU Number</th>
<th>X-Distance</th>
<th>Y-Distance</th>
<th>Z-Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>30kVA</td>
<td>G35T30KFB14S</td>
<td>10.16 [258]</td>
<td>23.90 [637]</td>
<td>15.51 [394]</td>
</tr>
</tbody>
</table>

SKU Number        | COG Details for SBP in inches (mm) | X-Distance | Y-Distance | Z-Distance |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>G35TSBPART10K15F</td>
<td>6.82 (176)</td>
<td>30 (762)</td>
<td>12.71 (323)</td>
<td></td>
</tr>
<tr>
<td>G35TSBPART20K30F</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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NOTES:
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT MANUALS FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT.
4. ALL AC BREAKERS ARE 80% CONTINUOUS DUTY RATED WITH 2A/2B AUX CONTACTS FOR APC CONTROL AND COORDINATED WITH REQUIRED SYSTEM SETTINGS AS DETAILED IN PRODUCT DOCUMENTATION.
5. AC SOURCE TO BE 208VAC, 4W, WYE CONNECTED, 3P (CONTACT SCHNEIDER ELECTRIC IF OTHER)
6. AC CIRCUIT TO BE 300V RATED, 3 PHASE, 4W+GND.
7. DC SOURCE TO BE 380VAC, WITH CENTER TAP, 3W+GND.
8. CABLE LUGS ARE PROVIDED BY OTHERS.
9. REMOVABLE BUS LINK TO BE REMOVED FOR DUAL MAINS.
10. UPS INPUT AND OUTPUT CABLES SHOULD BE SEGREGATED.
11. POWER WIRING AND CONTROL WIRING SHOULD BE SEGREGATED.
12. TO BE REMOVED FOR PARALLEL INSTALLATION.
13. SINGLE MODULE FOR LINEUP CONFIGURATION ONLY.
14. APPLICABLE SKU NUMBERS (REFER SHEET-2)

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DEVICE SUMMARY

DEVICE ID | RATING | TYPE | MAKE | MODEL | ACCESSORIES
---|---|---|---|---|---
Q1, Q2, Q3 | 60A CB 3POLE 600V | UPS 30KVA SYMMETRICAL | SQUARE-D by Schneider Electric | HDF36000ABY001 | 2A/2B STANDARD
Q1, Q2, Q3 | 125A CB 3POLE 600V | UPS 50KVA SYMMETRICAL | SQUARE-D by Schneider Electric | HDF36125ABY001 | 2A/2B STANDARD

DEVICE RATING FOR G35T(SBP)10K15F (TO USE WITH 10 - 15kVA UPS)

DEVICE RATING FOR G35T(SBP)20K30F (TO USE WITH 20 - 30kVA UPS)

RATED SHORT CIRCUIT CURRENT

- 30kAIC SYMMETRICAL
- 20kAIC SYMMETRICAL
NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT MANUALS FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT.
   REFER TO MECHANICAL DRAWINGS FOR PHYSICAL LAYOUT.
4. ALL AC BREAKERS ARE 80% CONTINUOUS DUTY RATED WITH 2A/2B AUX CONTACTS FOR APC CONTROL AND COORDINATED WITH REQUIRED SYSTEM SETTINGS AS DETAILED IN PRODUCT DOCUMENTATION.
   ADDITIONAL 2A/2B AUX CONTACTS TO BE WIRED TO TERMINAL STRIP FOR CUSTOMER USE.
   BREAKER SIZING IS BASED ON NOMINAL MANS VOLTAGE.
5. AC SOURCE TO BE 220VAC, 4W, 3PH. (CONTACT SCHNEIDER ELECTRIC IF OTHER)
6. AC CIRCUIT TO BE 600V RATED, 3 PHASE, 4W+GND.
7. DC SOURCE TO BE 380VDC WITH CENTER TAP, 3W+GND.
8. CABLE LUGS PROVIDED BY OTHERS.
9. REMOVABLE BUS LINK TO BE REMOVED FOR DUAL MANS.
10. UDS INPUT AND OUTPUT CABLES SHOULD BE SEGREGATED.
11. WIRE SIZE AND CONTROL WIRING SHOULD BE SEGREGATED.
12. SINGLE MODULE, FOR LINEUP CONFIGURATION ONLY.
13. TO BE REMOVED FOR PARALLEL INSTALLATION.
14. APPLICABLE SKU NUMBERS (REFER SHEET-2).

THE DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF SCHNEIDER ELECTRIC AND SHALL NOT BE COPIED, REPRODUCED OR USED IN WHOLE OR IN PART AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION FROM SCHNEIDER ELECTRIC. THIS DRAWING IS BASED UPON LATEST AVAILABLE INFORMATION AND IS SUBJECT TO CHANGE WITHOUT NOTICE.
NOTES:
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT MANUALS FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. USE ONLY 1-15 Sq mm COPPER WIRE FOR EPO CONNECTION.
4. WHEN Q3 IS CLOSED, SIGNALS ARE FED BACK TO THE UPS CONTROLLER.
5. APPLICABLE SKU: PLEASE REFER SHEET NUMBER 2.
6. WHEN PINS 7 AND 8 ARE CLOSED, THE UPS CHARGES BATTERIES WITH A PRE-DEFINED PERCENTAGE (0-25-50-75-100%) OF MAXIMUM CHARGING POWER. TO BE USED IN GENERATOR APPLICATIONS, OR IF SPECIAL CODES REQUIRE CONTROL OF CHARGING.

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SYSTEM
BYPASS PANEL (SBP)
(G3STSBP10K15F/G3STSBP20K30F)

CONTROL TERMINAL BLOCK

Q3
1 2 3 4
5 6 7 8
9 10

UPS

CONNECTON PLANE OP4910
J106

1 2 3 4
5 6 7 8

EPO CONNECTIONS

1 2 3 4
5 6

TO CHARGING CONTROL SWITCH

NORMALLY OPEN EPO
NORMALLY OPEN EPO RETURN
NORMALLY CLOSED EPO
NORMALLY CLOSED EPO RETURN
+24V SELV SUPPLY
SELV GROUND

PROJECT DRAWINGS SHEET 11 OF 11
APPROVED BY: O. SHERIDAN 25-10-11

C35T10K30FWSBP-1MOD

DATE: 14-OCT-11

Schneider Electric

NC ELECTRICAL 3500D
Input: 308/230V AC 3PH SINGLE/DUAL MINS
Max: 555/440V AC 3PH
10-30kVA MIDER UPS 1 MOD WITH SBP