### SYMMETRA PX 100, 100 kVA Package

<table>
<thead>
<tr>
<th>Sheet No.</th>
<th>Component /Detail</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Drawing Guide</td>
<td>SYMMETRA PX 100, 100kVA 480V - 208V, Top Feed Drawing guide</td>
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<tr>
<td>2-6</td>
<td>Solution</td>
<td>SYMMETRA PX 100, 100kVA 480V - 208V, Top Feed.</td>
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<tr>
<td>7-9</td>
<td>UPS Power Frame</td>
<td>SYMMETRA PX 100, 100kVA 480V - 208V, Top Feed.</td>
</tr>
<tr>
<td>10-11</td>
<td>Battery Cabinet</td>
<td>SYMMETRA PX 100, 100kVA 480V - 208V, Battery Cabinet.</td>
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<tr>
<td>12-14</td>
<td>Power Distribution Unit</td>
<td>SYMMETRA PX 100, 100kVA 480V - 208V, PDU.</td>
</tr>
<tr>
<td>15-16</td>
<td>System One Line Diagram</td>
<td>SYMMETRA PX 100, 100kVA, 480V - 208V, Top Feed, System One Line Diagram.</td>
</tr>
<tr>
<td>17</td>
<td>Site Planning Data</td>
<td>SYMMETRA PX 100, 100kVA, 480V - 208V Top Feed, Site Planning Data</td>
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### LEGEND

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>switch</td>
<td>SWITCH DISCONNECT</td>
<td>~</td>
<td>CONVERTER</td>
</tr>
<tr>
<td>circuit</td>
<td>CIRCUIT BREAKER</td>
<td>~</td>
<td>INVERTER</td>
</tr>
<tr>
<td>battery</td>
<td>BATTERY</td>
<td>~</td>
<td>BYPASS SSW</td>
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</table>

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<table>
<thead>
<tr>
<th>SKU#</th>
<th>Runtime in Min</th>
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<tr>
<td>SY100K100</td>
<td>5</td>
</tr>
<tr>
<td>SY100K100+(1)SYCFXR9</td>
<td>16</td>
</tr>
<tr>
<td>SY100K100+(2)SYCFXR9</td>
<td>28</td>
</tr>
<tr>
<td>SY100K100+(3)SYCFXR9</td>
<td>41</td>
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</table>

Notes:
1. Installation shall comply with all applicable national, state and local codes.
2. Please refer to product manuals prior to installation and site preparation work for further details.
3. Front and rear service access is required.
4. For configuration and runtime details refer to table above.
5. For operating temperature please refer to individual component drawings.
6. Battery run times are theoretical and calculated based on data provided by battery manufacturer assuming optimum environment and load conditions.

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NOTES:
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. PLEASE REFER TO PRODUCT MANUALS FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
4. TO STABILIZE ENCLOSURE IN THE FIELD, USE INCLUDED ANCHORING BRACKETS.
   ATTACH THE BRACKETS TO THE UNIT AS SHOWN.
S. USE CODE COMPLIANT FASTENERS TO SECURE THE UNIT TO THE FLOOR.
6. ANCHORING BRACKETS CAN BE INSTALLED AT FRONT AND BACK OF UNIT.
   ADEQUATE FRONT AND REAR CLEARANCE SHOULD BE PROVIDED IF THE UNIT IS TO BE ANCHORED.
   USE CODE COMPLIANT FASTENERS TO SECURE UNIT TO THE FLOOR.
   BOLT DOWN KIT (SKU # AR7701) IS OPTIONAL AND HAS TO BE ORDERED SEPARATELY.

BOTTOM VIEW
(FLOOR ANCHORING BRACKET)
Make contact closure connections (NO or NC) to monitor dry contacts. Up to eight connections can be made—four input contacts and four output relays.

**Output Relays:**
- 240V/8A
- 0.3VA/1.9kW

- Input signals: Contact load: TTL
- 1/2 Q001 UPS Input Switch (N/O position)
- 3/4 Q002 UPS Output Switch (N/O position)
- 5/6 Q003 UPS service bypass Switch (N/C position)
- 7/8 OK to operate UPS Output Switch Q002
- 9/10 OK to operate Service Bypass Switch Q003
- 11/12 Not used
- 13/14 External Switchgear present

**NOTES:**
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2. Please refer to product manuals prior to installation and site preparation work for further details.

Δ3.0.3VA = Minimum power consumption of the relay.
1.9kW = Maximum power that can flow through the contacts.
EPO switch wiring details

EPO/ANCILLARY INTERFACE

EPO switch.
keep EPO wire routing isolated and use separate EPO conduits

J22
1 Internal Power +24V Supply
2/3 Relay coil 1
4 Ground

XR Battery Enclosure

1 230V AC Supply
2/3 N/A
4 Neutral

EPO WITH INTERNAL SUPPLY

N/O EPO Control
J25
1 Internal Power +24V Supply
3/2 Relay coil 1
4 Ground

N/C EPO Control
J24
5 Internal Power +24V Supply
7/6 Relay coil 2
8 Ground

INPUT/OUTPUT WIRING OF ANCILLARY EQUIPMENT

J21
1/2 Battery Breaker Present
3/4 Ext. Battery Fuse/Battery Breaker 1 (N/O position)
5/6 Ext. Battery Fuse/Battery Breaker 2 (N/O position)
7/8 Temp. Sensor, Ext. Battery
9/10 Temp. Sensor, Ext. Battery present
11/12 Isolation transformer temp. switch (N/C position)
13/14 Isolation transformer temp. switch present

NOTES
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. PLEASE REFER TO PRODUCT MANUALS PRIOR TO INSTALLATION AND SITE PREPARATION WORK FOR FURTHER DETAILS.
EPO INTERFACE FOR DC BREAKER TRIP

NOTES:
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2. PLEASE REFER TO PRODUCT MANUALS PRIOR TO INSTALLATION AND SITE PREPARATION WORK FOR FURTHER DETAILS.
### Symmetra® PX 100K UPS Frame Site Planning Data - w/ Modular PDU - w/480V Transformer

<table>
<thead>
<tr>
<th>UPS Frame Rating</th>
<th>Qty of 10 kW Power Modules</th>
<th>UPS Rating kVA/kW</th>
<th>Voltage</th>
<th>Rectifier AC Input MIB Dual Feed</th>
<th>Transformer AC Input MIB Single Feed or BIB Dual Feed</th>
<th>External Battery System</th>
<th>AC Output</th>
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<tbody>
<tr>
<td></td>
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<td>Full Load</td>
<td>100% OCPD</td>
<td>100% Cable</td>
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<td>208</td>
<td>332</td>
<td>360</td>
<td>400A</td>
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</tbody>
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### Notes:
1. The Rectifier Input source for dual feed must be 208V wye 3-wire + Ground. Contact Schneider Electric if other.
2. Output is either 208V Wye 3-wire + Ground or 4-wire + GROUND.
3. Recommended cables are THHN AWG/kcmil minimum requirement in raceway, sized for 30°C environment, 75°C terminations, PFC load, and three (3) current carrying conductors per circuit. All Cabling must comply with installation site conditions and any applicable Local or National Codes.

4. The Transformer input source must be 480V 3-wire + Ground, and the OCPD must be capable of supporting a inrush current of 1750A.
5. Contact Schneider Electric for assistance with all external battery designs. Maximum allowed DC Cabling voltage drop is 1 VDC.
6. Electronic Input current Limit.
7. This is the UPS short time rating of 125% Overload for 10 minutes. Actual short time performance may be limited by the overcurrent protective device selected.
8. For maximum scalability or future expansion it is recommended that the UPS frames be installed at their full ratings - see bold highlighted data.
9. All OCPD's and cabling are by others.
10. Dual feed only for mains 1 input. See Bypass AC Input for mains 2 input.
12. Final selections are responsibility of Engineer of record based on installed conditions and SCC/ Selective co-ordination/ arc-flash analysis.