
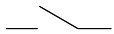

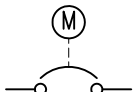
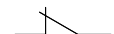
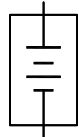
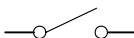
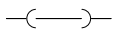



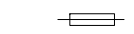





# Symmetra PX 250kW 4 wire Single Mains Top Entry 2 MOD with Line-up Modular Battery

| Sheet No. | Component /Detail                  | Description  |
|-----------|------------------------------------|--|
| 1         | Draw ing Guide                     | Symmetra PX 250kW 4-w ire Single Mains Top Entry 2 MOD w ith Line-up Modular Battery Draw ing Guide.               |
| 2         | Solution Isometric                 | Symmetra PX 250kW 4-w ire Single Mains Top Entry 2 MOD w ith Line-up Modular Battery Solution Isometric            |
| 3         | Run time Details                   | Symmetra PX 250kW 4-w ire Single Mains Top Entry 2 MOD w ith Line-up Modular Battery Runtime Details               |
| 4         | Solution General Arrangements      | Symmetra PX 250kW 4-w ire Single Mains Top Entry 2 MOD w ith Line-up Modular Battery Solution General Arrangements |
| 5         | Solution Anchoring Details         | Symmetra PX 250kW 4-w ire Single Mains Top Entry 2 MOD w ith Line-up Modular Battery Solution Anchoring            |
| 6         | UPS Frame Internal view s          | Symmetra PX 250kW UPS Internal Details   |
| 7-9       | Input-Output Frame Internal view s | Symmetra PX 250kW UPS Input Output Cabinet internal Details  |
| 10        | Battery Frame Internal view s      | Symmetra PX Battery Cabinet Internal View s  |
| 11-12     | System One Line Diagrams           | Symmetra PX 250kW 4-w ire Single Mains Top Entry 2 MOD w ith Line-up Modular Battery System One Line Diagrams      |
| 13        | Site Planning data                 | Symmetra PX 250kW 4-w ire Single Mains Top Entry 2 MOD w ith Line-up Modular Battery Site Planning data            |
| 14        | System Wiring Diagram              | Symmetra PX 250kW 4-w ire Single Mains Top Entry 2 MOD w ith Line-up Modular Battery System Wiring Diagram         |

## LEGEND

| SYMBOL  | DESCRIPTION               | SYMBOL  | DESCRIPTION             | SYMBOL  | DESCRIPTION    |
|---|---------------------------|---|-------------------------|---|----------------|
|    | CIRCUIT BREAKER           |    | NORMALLY OPEN CONTACT   |   | CONVERTER      |
|   | MOTORIZED CIRCUIT BREAKER |    | NORMALLY CLOSED CONTACT |  | BATTERY MODULE |
|  | SWITCH DISCONNECT         |  | BUS BAR LINK            |  | INVERTER       |
|  | TERMINATION POINT         |  | STATIC SWITCH           |   |                |
|  | FUSE                      |  | LAMP                    |   |                |
|  | TERMINAL                  |  | PROTECTIVE EARTHING     |   |                |

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**Schneider**  
Electric

TITLE: SYMMETRA PX  
Input: 480V AC 3PH SINGLE MAINS  
Output: 480V AC 3PH 500kW  
TOP ENTRY 2 MOD W/ LINE-UP MODULAR BATTERY  
DRAWING GUIDE

PROJECT: DRAWINGS SHEET 1 OF 14

DWG NO: SY250K500TG1C2-4W-LB

DRAWN BY: RAMESH B 12-APR-12

ENGINEER: M.LEPARD/A.WARNER 12-APR-12

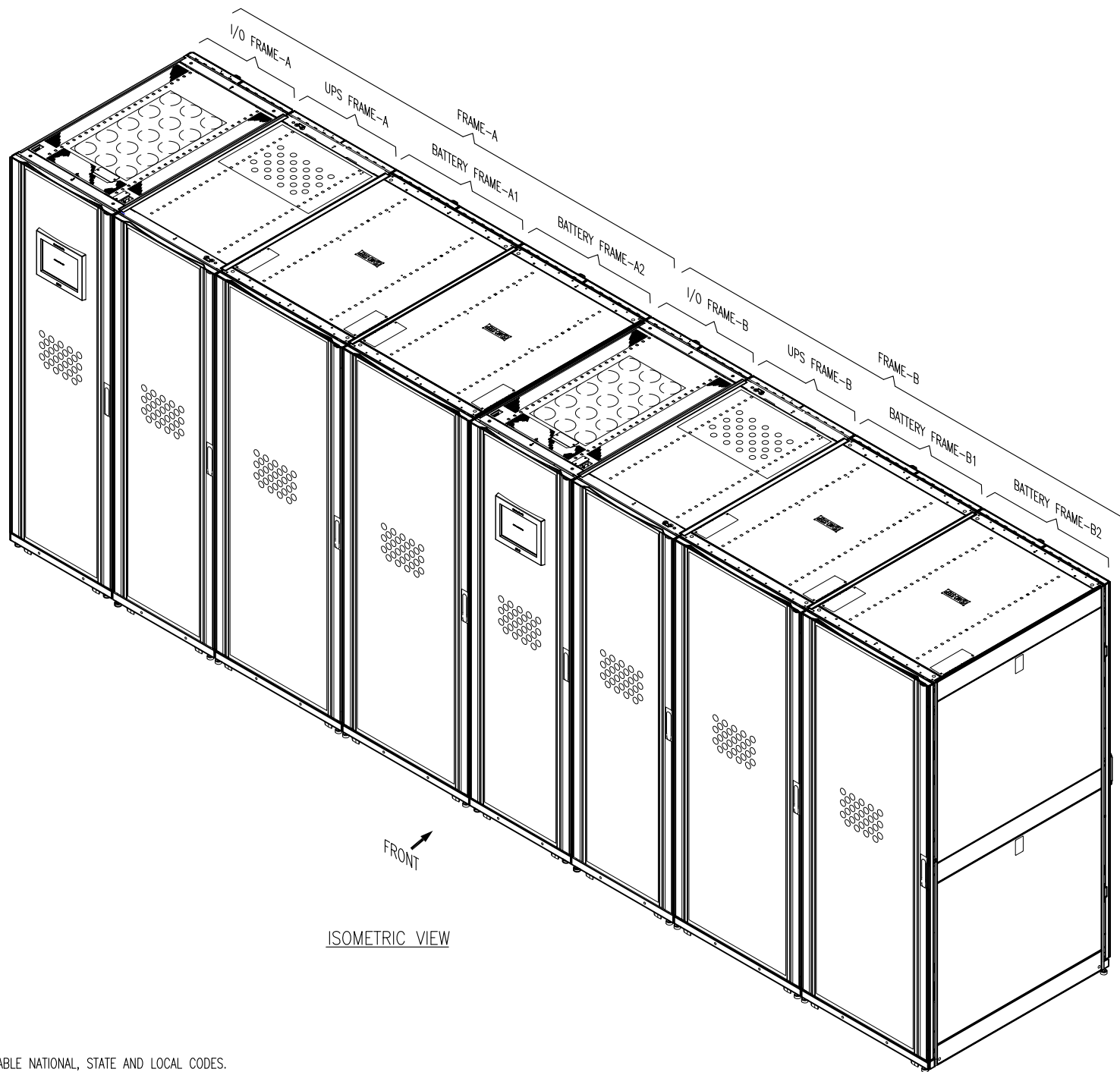
APPROVED BY: B.SHERIDAN/E.SILVA 12-APR-12

REV. 0

ANGLE

PROJECTION

N/A



**NOTES:**

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. CABLE ENTRY IS FROM TOP OF THE UNIT.
4. FRONT SERVICE ACCESS IS REQUIRED.

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**Schneider**  
Electric

**TITLE:** SYMMETRA PX  
Input: 480V AC 3PH SINGLE MAINS  
Output: 480V AC 3PH 500kW  
TOP ENTRY 2 MOD W/ LINE-UP MODULAR BATTERY  
SOLUTION ISOMETRIC

**PROJECT:** DRAWINGS **SHEET** 2 OF 14

**DWG NO:** SY250K500TG1C2-4W-LB

**DRAWN BY:** JAYAPRAKASH **03-FEB-15**

**ENGINEER:** D LOEWENSTEIN/P BOUCHER **03-FEB-15**

**APPROVED BY:** B SHERIDAN **03-FEB-15**

**REV.** 2

**THIRD**

**ANGLE**

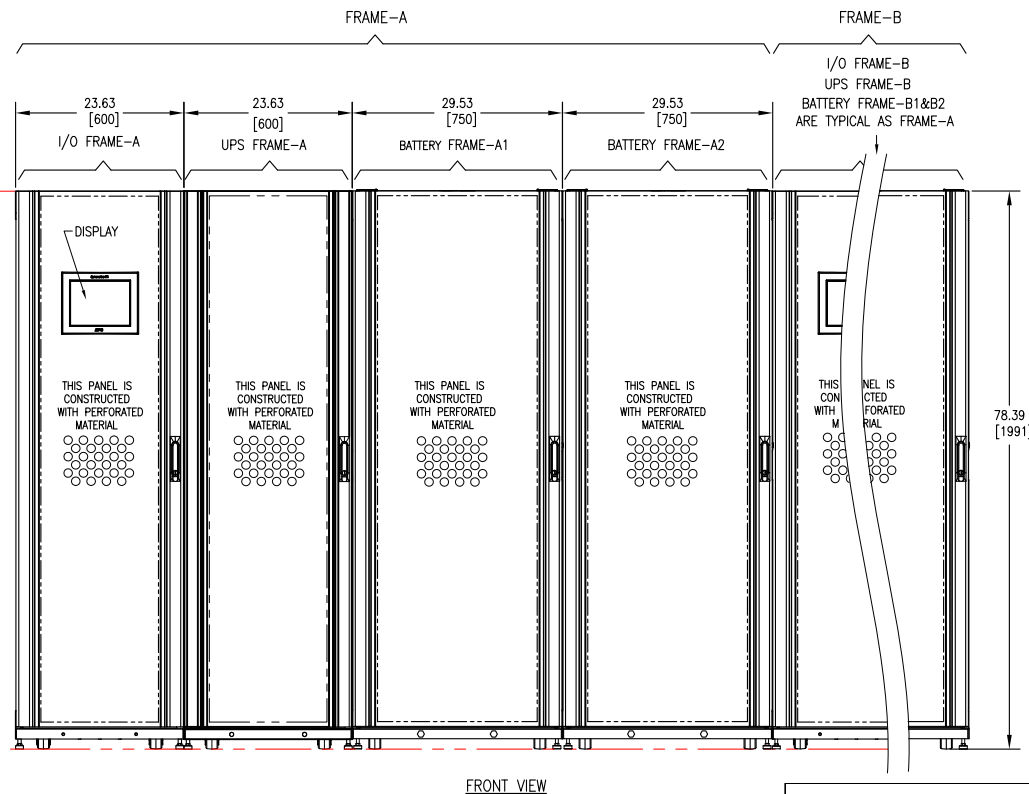
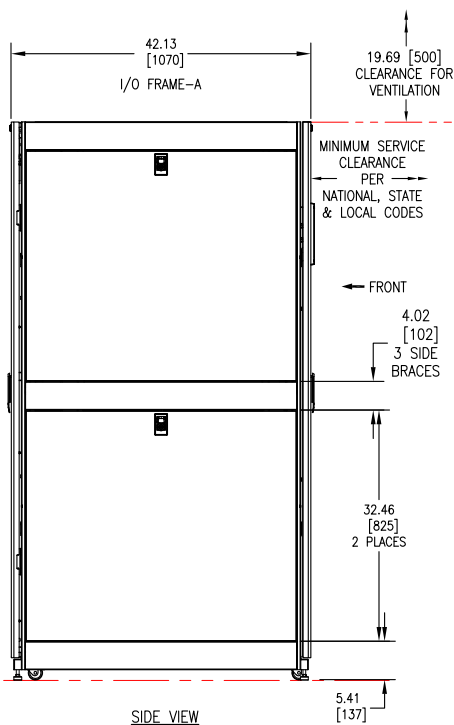
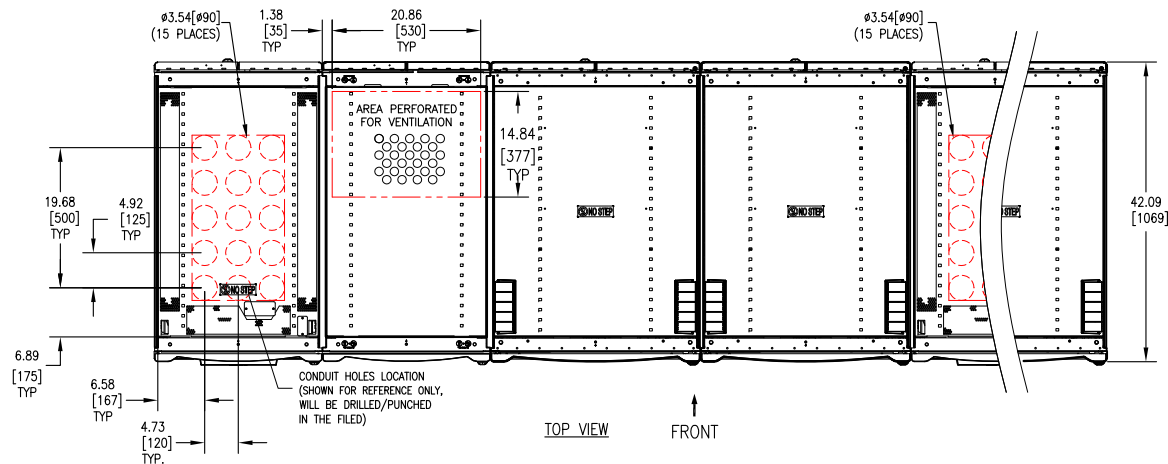
**PROJECTION**

| 100 - 250kW TOP FEED SINGLE/DUAL MAINS 2 MODULE WITH LINE-UP BATTERIES (6min to 105min)⚠ |                            |                           |                            |   |                              |                             |                              |                             |                              |                             |                              |                             |                              |                             |                              |                             |                              |                             |                              |                             |                              |                             |                              |                             |                              |                             |                              |                             |                              |                             |                              |                             |                              |        |     |
|--|----------------------------|---------------------------|----------------------------|---|------------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------|------------------------------|--------|-----|
| UPS rating   | Total No. of In-Out Frames | Total No. of Power Frames | Total No. of Power Modules | Battery details for various runtime options |                              |                             |                              |                             |                              |                             |                              |                             |                              |                             |                              |                             |                              |                             |                              |                             |                              |                             |                              |                             |                              |                             |                              |                             |                              |                             |                              |                             |                              |        |     |
|  |                            |                           |                            | 6 min                                       |                              | 8 min                       |                              | 10 min                      |                              | 12 min                      |                              | 15 min                      |                              | 20 min                      |                              | 25 min                      |                              | 30 min                      |                              | 40 min                      |                              | 50min                       |                              | 60min                       |                              | 70min                       |                              | 80min                       |                              | 90min                       |                              | 100min                      |                              | 105min |     |
|  |                            |                           |                            | Total No. of Battery Frames                 | Total No. of Battery Modules | Total No. of Battery Frames | Total No. of Battery Modules | Total No. of Battery Frames | Total No. of Battery Modules | Total No. of Battery Frames | Total No. of Battery Modules | Total No. of Battery Frames | Total No. of Battery Modules | Total No. of Battery Frames | Total No. of Battery Modules | Total No. of Battery Frames | Total No. of Battery Modules | Total No. of Battery Frames | Total No. of Battery Modules | Total No. of Battery Frames | Total No. of Battery Modules | Total No. of Battery Frames | Total No. of Battery Modules | Total No. of Battery Frames | Total No. of Battery Modules | Total No. of Battery Frames | Total No. of Battery Modules | Total No. of Battery Frames | Total No. of Battery Modules | Total No. of Battery Frames | Total No. of Battery Modules | Total No. of Battery Frames | Total No. of Battery Modules |        |     |
| 2x(100kVA/100KW)   | 2                          | 2                         | 8                          | 2   | 14                           | 2                           | 16                           | 4                           | 18                           | 4                           | 20                           | 4                           | 24                           | 4                           | 28                           | 6                           | 34                           | 6                           | 38                           | 6                           | 48                           | 8                           | 58                           | 8                           | 66                           | 10                          | 74                           | 12                          | 82                           | 12                          | 90                           | 12                          | 98                           | 14     | 102 |
| 2x(125kVA/125kW)   | 2                          | 2                         | 10                         | 2   | 16                           | 4                           | 20                           | 4                           | 22                           | 4                           | 26                           | 4                           | 30                           | 6                           | 36                           | 6                           | 42                           | 6                           | 48                           | 8                           | 60                           | 10                          | 72                           | 10                          | 82                           | 12                          | 92                           | 14                          | 104                          | 14                          | 114                          | 16                          | 124                          | 16     | 128 |
| 2x(150kVA/150kW)   | 2                          | 2                         | 12                         | 4   | 20                           | 4                           | 24                           | 4                           | 26                           | 4                           | 30                           | 6                           | 36                           | 6                           | 42                           | 8                           | 50                           | 8                           | 58                           | 10                          | 72                           | 12                          | 86                           | 12                          | 98                           | 14                          | 112                          | 16                          | 124                          | N/A                         | N/A                          | N/A                         | N/A                          | N/A    |     |
| 2x(200kVA/200kW)   | 2                          | 2                         | 16                         | 4   | 26                           | 4                           | 32                           | 6                           | 36                           | 6                           | 40                           | 6                           | 46                           | 8                           | 56                           | 10                          | 66                           | 10                          | 76                           | 12                          | 96                           | 14                          | 114                          | 16                          | 130                          | N/A                         | N/A                          | N/A                         | N/A                          | N/A                         | N/A                          | N/A                         | N/A                          | N/A    |     |
| 2x(250kVA/250kW)   | 2                          | 2                         | 20                         | 4   | 32                           | 6                           | 38                           | 6                           | 44                           | 8                           | 50                           | 8                           | 58                           | 10                          | 70                           | 12                          | 84                           | 12                          | 96                           | 16                          | 118                          | N/A                         | N/A                          | N/A                         | N/A                          | N/A                         | N/A                          | N/A                         | N/A                          | N/A                         | N/A                          | N/A                         | N/A                          | N/A    |     |

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND
3. FOR POWER LEVELS/CONFIGURATIONS NOT DETAILED PLEASE CONTACT CONFIGURATION ENGINEERING.
4. SOLUTION WEIGHT INCLUDES 250kW STATIC SWITCH.

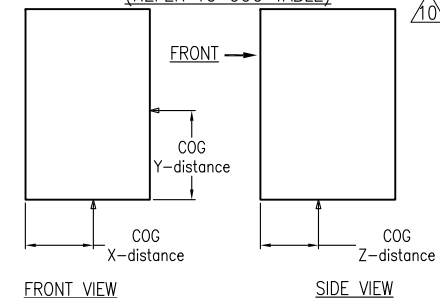
△ 5. BATTERY RUN TIMES ARE THEORETICAL AND CALCULATED BASED ON DATA PROVIDED BY BATTERY MANUFACTURER ASSUMING OPTIMUM ENVIRONMENT AND LOAD CONDITIONS



#### NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO [PRODUCT DOCUMENTATION](#) FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
4. WEIGHT PER FRAME (UNPOPULATED) LBS KG  
 UPS FRAME 534.00 242.73  
 IN/OUT FRAME 730.00 332.00  
 BATTERY FRAME 373.60 822.00  
 250kW SSW 174.00 79.00
5. CABLE ENTRY IS FROM TOP OF THE UNIT.
6. ENCLOSURE PROTECTION CLASS : NEMA1, IP20.
7. FRONT SERVICE CLEARANCE AND TOP VENTILATION CLEARANCE REQUIRED AS SHOWN.
8. OPERATING TEMPERATURE : 0 TO 40°C.
9. COLOR : BLACK
- △ 10. THIS INFORMATION PROVIDES APPROXIMATE CENTER OF GRAVITY CALCULATION.
11. REQUIREMENTS FOR BACK TO BACK SYMMETRA PX250/500 UPS INSTALLATIONS.  
 -TO ENSURE PROPER AIR FLOW, YOU MUST INSTALL A PLEXIGLAS FRENCH DOOR KIT (0H-0242) AT THE REAR OF EACH POWER FRAME AND I/O FRAME IN ONE OF THE TWO SYSTEMS.  
 -TO PREVENT BATTERIES FROM BEING OVERHEATED BY HOT AIR FROM POWER FRAMES, BATTERY FRAMES MUST BE INSTALLED BACK TO BACK AND POWER FRAMES MUST BE INSTALLED BACK TO BACK.

#### CENTER OF GRAVITY DETAILS BATTERY FRAME/UPS FRAME/INPUT-OUTPUT FRAME (REFER TO COG TABLE)



| COG TABLE         |               |                |               |
|-------------------|---------------|----------------|---------------|
| CENTER OF GRAVITY | BATTERY FRAME | UPS FRAME      | I/O FRAME     |
| X - DISTANCE      | 14.76 [375]   | 12.85 [326.4]  | 12.96 [329.2] |
| Y - DISTANCE      | 39.17 [995]   | 42.14 [1070.3] | 21 [533.5]    |
| Z - DISTANCE      | 22.44 [570]   | 16.65 [423]    | 31.04 [788.5] |

| Floor Loading Data (Fully Populated unit) |                                     |                                   |                    |                                       |
|---|-------------------------------------|-----------------------------------|--------------------|---------------------------------------|
| Description                               | SKU Reference                       | Dimensions H x W x D Inch[mm]     | Weight in LBS [Kg] | Floor Loading lbs/ sq. ft[kg / sq. m] |
| BATTERY FRAME                             | SYBFXR8-8                           | 78.39x29.53x42.13 [1991x750x1070] | 3510 [1595]        | 406 [1988]                            |
| UPS FRAME                                 | SYPF250KD with 10 Power Modules     | 78.39x23.62x42.13 [1991x600x1070] | 1484 [675]         | 215 [1051]                            |
| I/O FRAME                                 | SYIOF500KD with 250kW Static Switch | 78.39x23.62x42.13 [1991x600x1070] | 904 [411]          | 131 [640]                             |

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**Schneider Electric**

TITLE: SYMMETRA PX  
 Input: 480V AC 3PH SINGLE MAINS  
 Output: 480V AC 3PH 500kW  
 TOP ENTRY 2 MOD W/ LINE-UP MODULAR BATTERY  
 SOLUTION GENERAL ARRANGEMENT

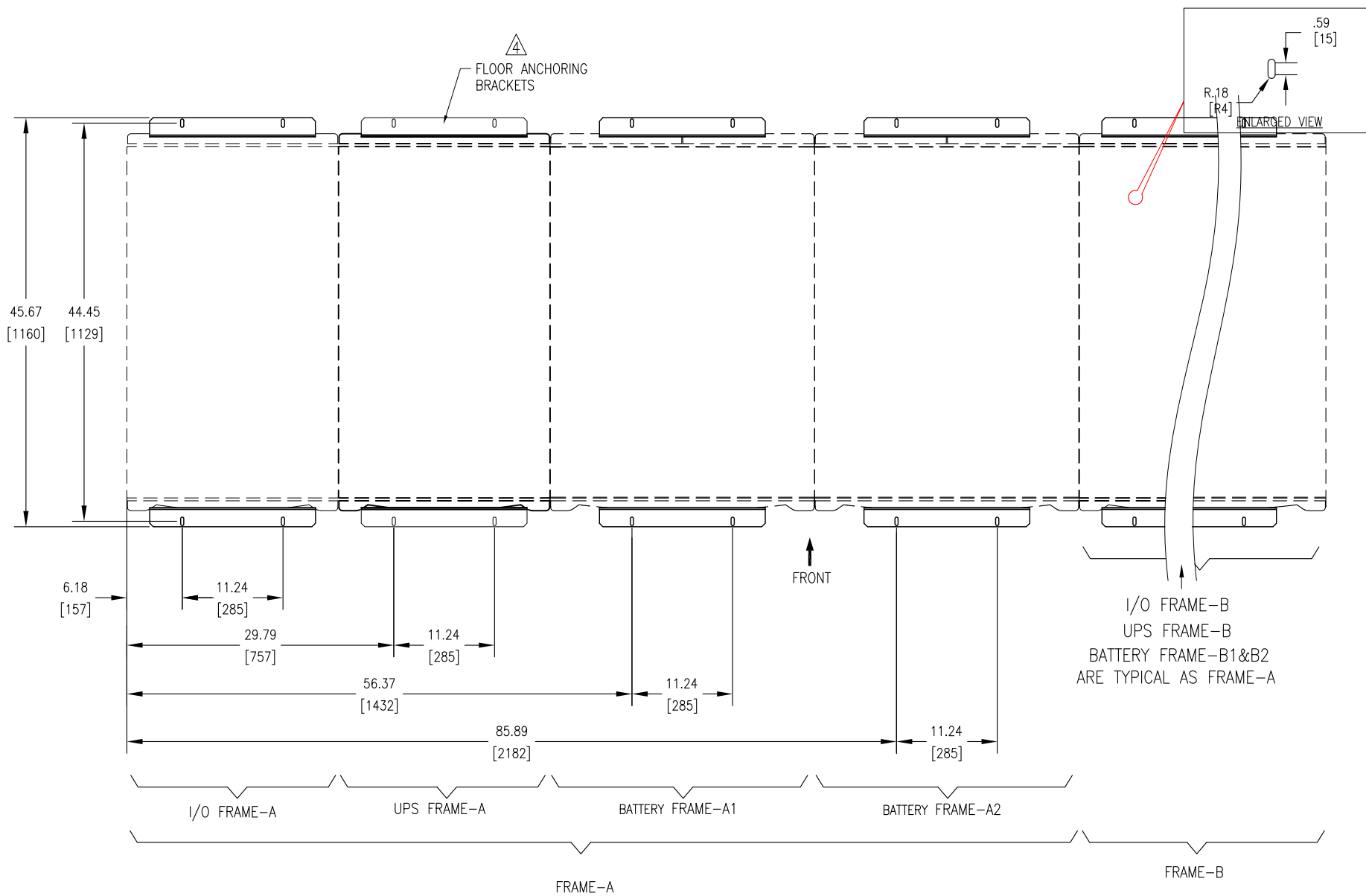
PROJECT: DRAWINGS SHEET 4 OF 14

DWG NO: SY250K500TG1C2-4W-LB

DRAWN BY: JAYAPRAKASH/BALA 26-FEB-16  
 ENGINEER: M.LEPARD 26-FEB-16

APPROVED BY: M.LEPARD 26-FEB-16

REV. 2  
 THIRD ANGLE PROJECTION



NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
- △4. FLOOR ANCHORING BRACKETS CAN BE USED TO ANCHOR ENCLOSURE. USE CODE COMPLIANT FASTENERS TO SECURE THE UNIT. IF REAR BRACKET IS USED, 29.92 [760mm] REAR CLEARANCE IS REQUIRED FOR INSTALLATION.

FLOOR ANCHORING DETAILS

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**Schneider**  
Electric

TITLE: SYMMETRA PX  
Input: 480V AC 3PH SINGLE MAINS  
Output: 480V AC 3PH 500kW  
TOP ENTRY 2 MOD W/ LINE-UP MODULAR BATTERY  
SOLUTION ANCHORING

PROJECT: DRAWINGS SHEET 5 OF 14

DWG NO: SY250K500TG1C2-4W-LB

DRAWN BY: RAMESH B 12-APR-12

ENGINEER: M.LEPARD/A.WARNER 12-APR-12

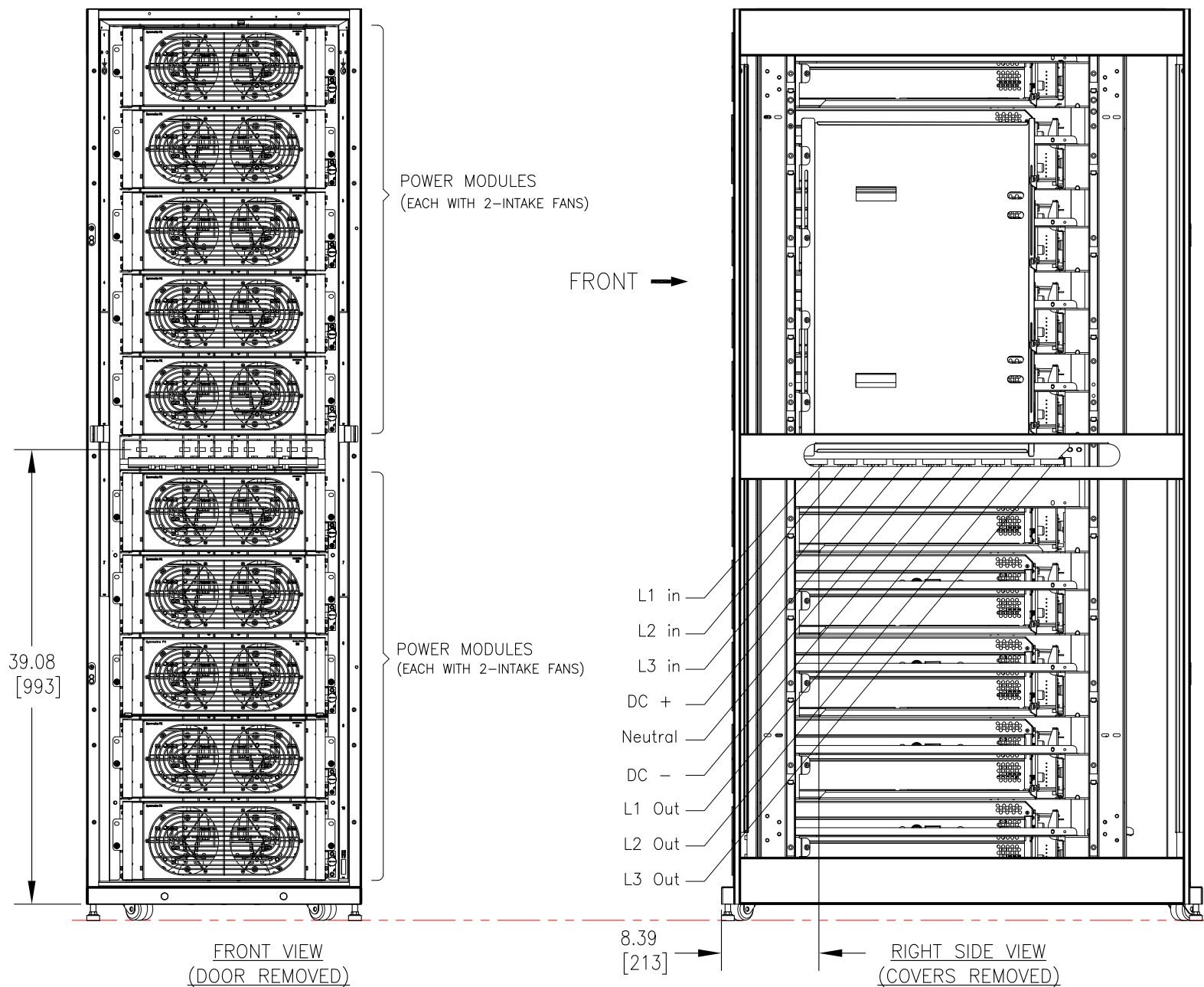
APPROVED BY: B.SHERIDAN/E.SILVA 12-APR-12

REV. 0

THIRD

ANGLE

PROJECTION



- NOTES:
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  3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
  4. SOME STRUCTURAL DETAILS HAVE BEEN OMITTED FOR THE PURPOSE OF CLARITY.
  5. EITHER 600mm OR 29.92 [750mm] WIDE PLENUM WILL BE SUPPLIED AS PER RACK CONFIGURATION.

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**Schneider Electric**

TITLE: SYMMETRA PX  
Input: 480V AC 3PH SINGLE MAINS  
Output: 480V AC 3PH 500kW  
TOP ENTRY 2 MOD W/ LINE-UP MODULAR BATTERY  
UPS POWER FRAME INTERNAL VIEW

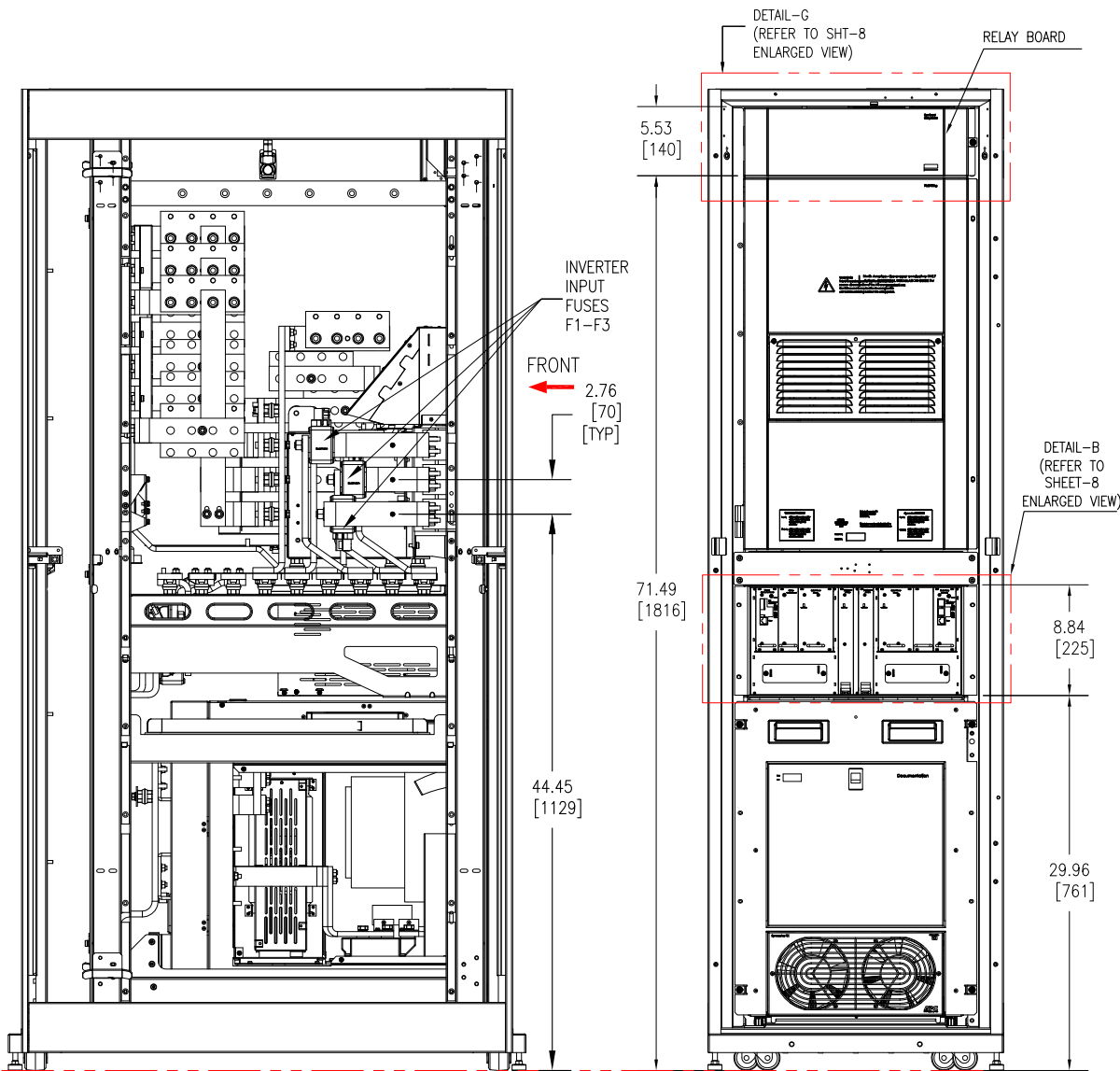
PROJECT: DRAWINGS SHEET 6 OF 14

DWG NO: SY250K500TG1C2-4W-LB

DRAWN BY: RAMESH B 12-APR-12  
ENGINEER: M.LEPARD/A.WARNER 12-APR-12

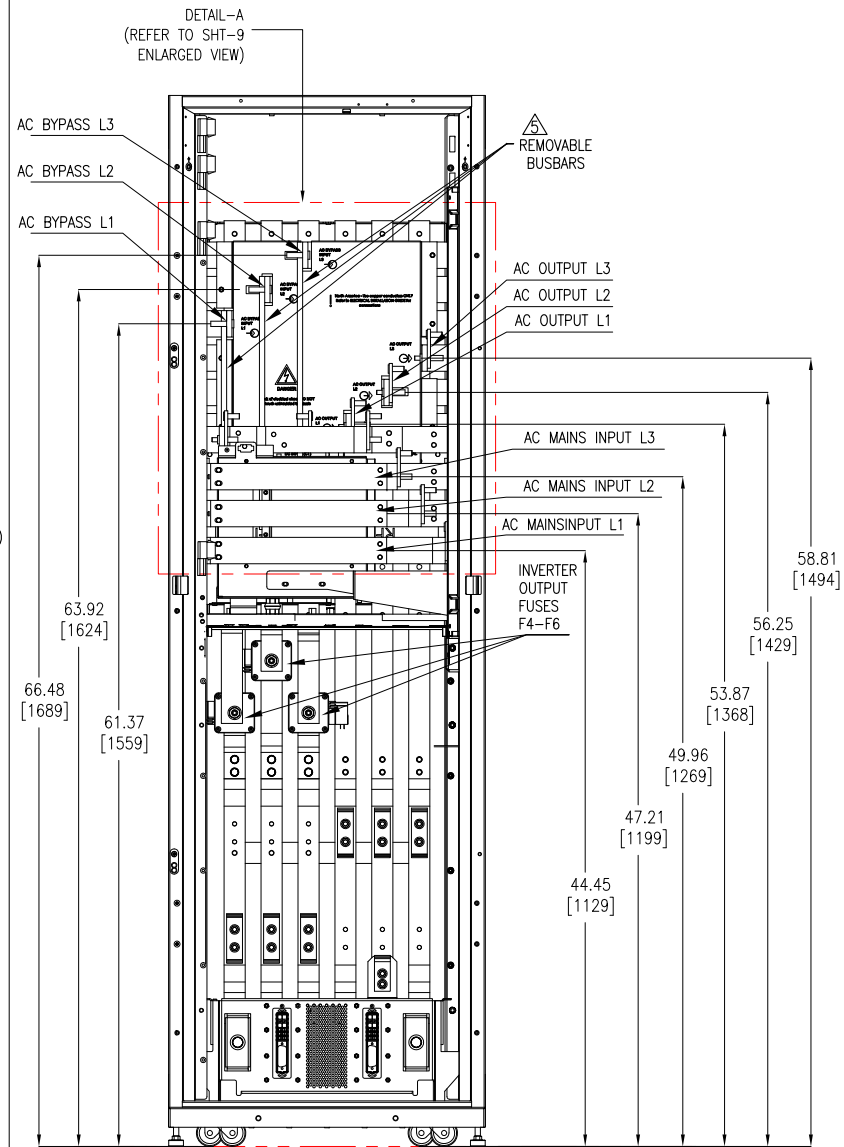
APPROVED BY: B.SHERIDAN/E.SILVA 12-APR-12

REV. 0  
THIRD ANGLE  
PROJECTION



LEFT SIDE VIEW  
(SIDE COVERS REMOVED)

FRONT VIEW  
(DOOR REMOVED)



FRONT VIEW  
(DOOR & SSW REMOVED)

#### NOTES:

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3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
4. SOME STRUCTURAL DETAILS HAVE BEEN OMITTED FOR CLARITY.
- △5. SINGLE MAINS IS FACTORY DEFAULT CONFIGURATION. THE BUS BAR LINKS MUST BE PRESENT FOR SINGLE MAINS INSTALLATION.

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**Schneider**  
Electric

TITLE: SYMMETRA PX  
Input: 480V AC 3PH SINGLE MAINS  
Output: 480V AC 3PH 500kW  
TOP ENTRY 2 MOD W/ LINE-UP MODULAR BATTERY  
UPS INPUT- OUTPUT FRAME INTERNAL VIEW

PROJECT: DRAWINGS SHEET 7 OF 14

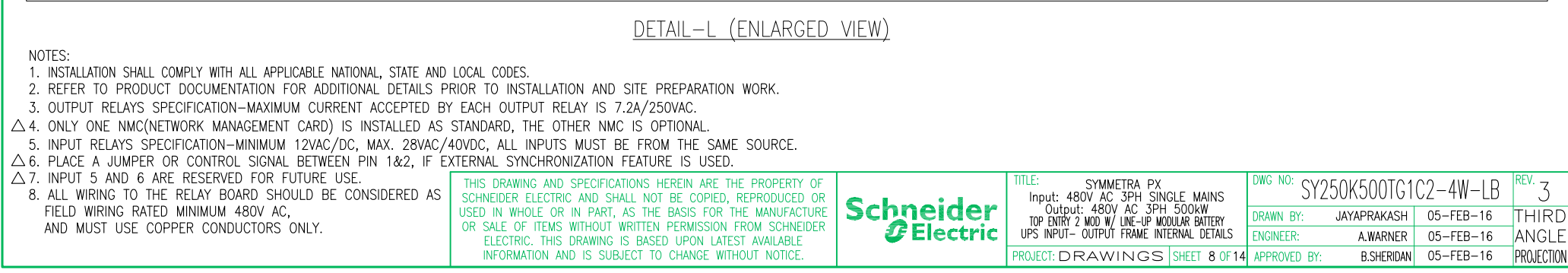
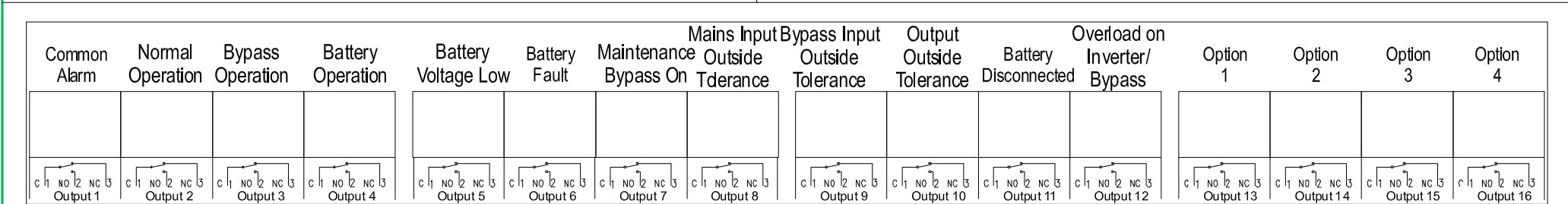
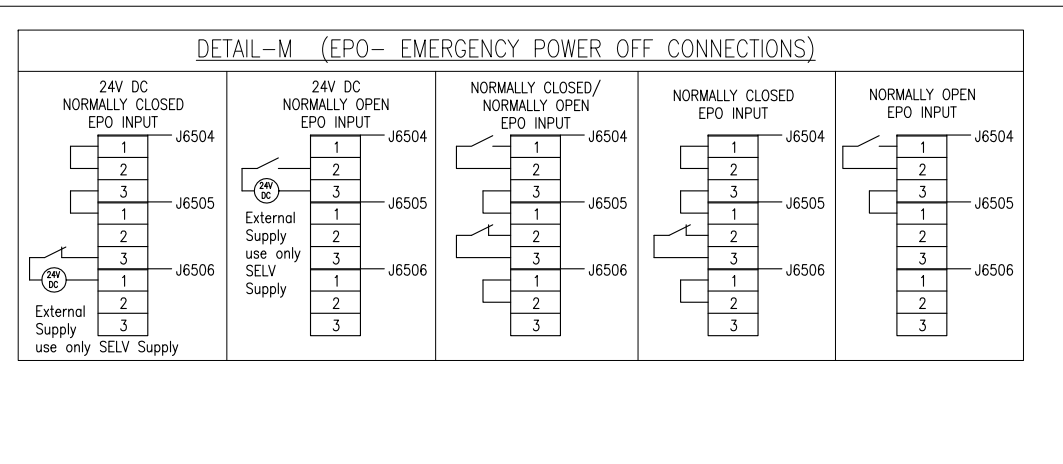
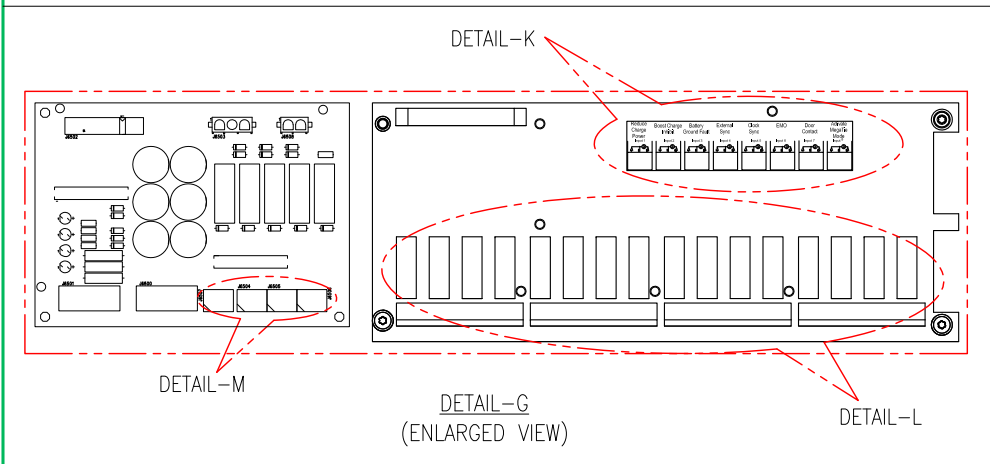
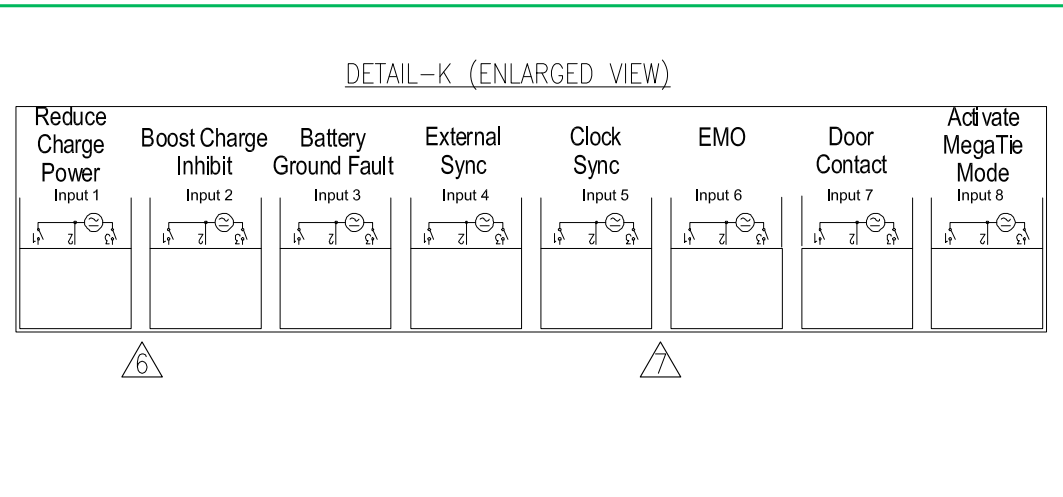
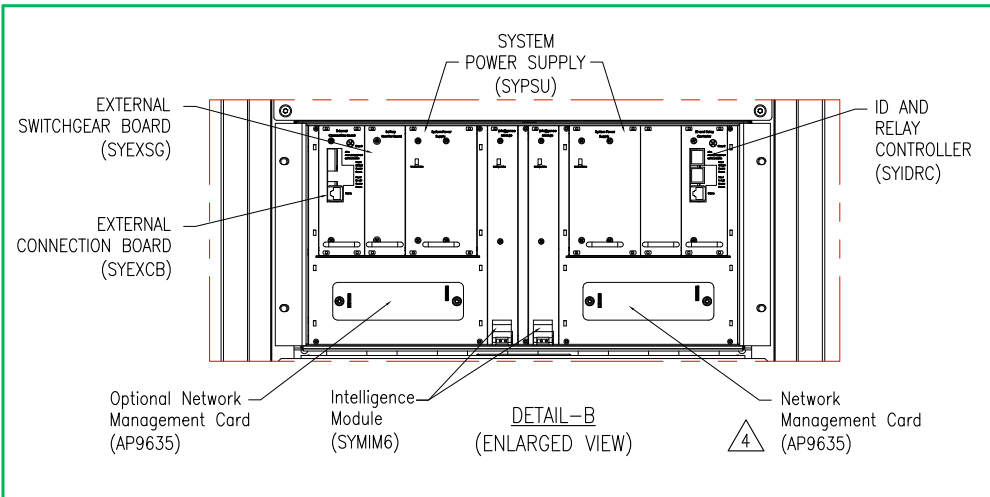
DWG NO: SY250K500TG1C2-4W-LB

DRAWN BY: JAYAPRAKASH 03-FEB-15  
ENGINEER: M.LEPARD/A.WARNER 03-FEB-15

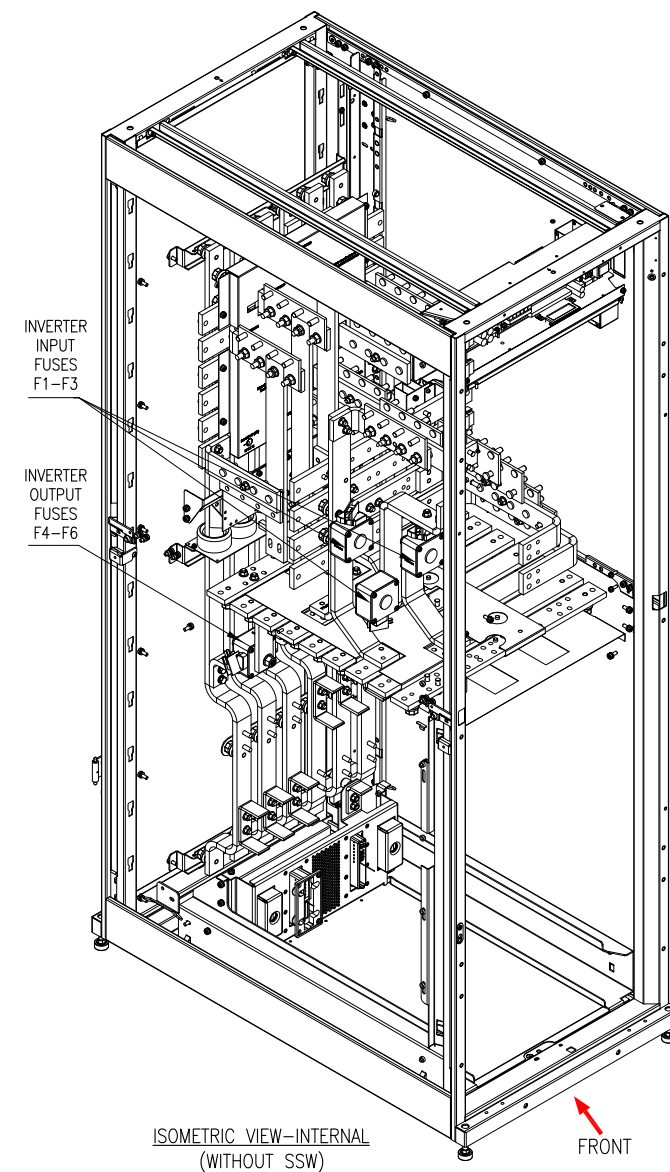
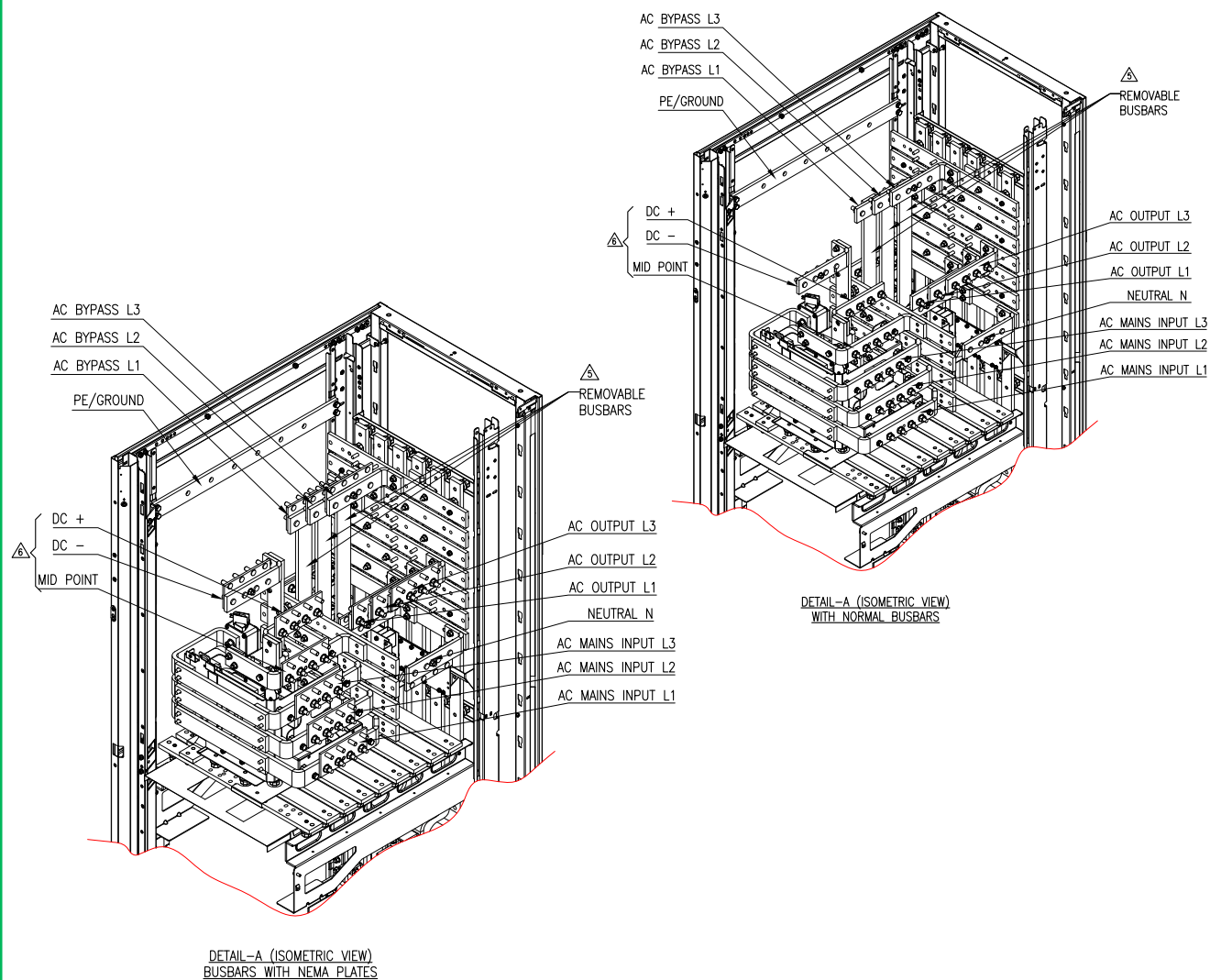
APPROVED BY: B.SHERIDAN/E.SILVA 03-FEB-15

REV. 2  
THIRD ANGLE  
PROJECTION









#### NOTES:

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3. SOME STRUCTURAL DETAILS HAVE BEEN OMITTED FOR THE PURPOSE OF CLARITY.
4. ALL DIMENSIONS ARE IN INCHES[MILLIMETERS].
- △5. SINGLE MAINS IS FACTORY DEFAULT CONFIGURATION. THE BUS BAR LINKS MUST BE PRESENT FOR SINGLE MAINS INSTALLATION.
- △6. NOT REQUIRED FOR LINE UP & MATCH BATTERY SOLUTION. ONLY USED FOR REMOTE XR BATTERY FRAMES OR FOR THIRD PARTY BATTERY SOLUTIONS.

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**Schneider**  
Electric

TITLE: SYMMETRA PX  
Input: 480V AC 3PH SINGLE MAINS  
Output: 480V AC 3PH 500kW  
TOP ENTRY 2 MOD W/ LINE-UP MODULAR BATTERY  
UPS INPUT- OUTPUT FRAME INTERNAL ISOMETRIC

PROJECT: DRAWINGS SHEET 9 OF 14

DWG NO: SY250K500TG1C2-4W-LB

DRAWN BY: JAYAPRAKASH 03-FEB-15

ENGINEER: M.LEPARD/A.WARNER 03-FEB-15

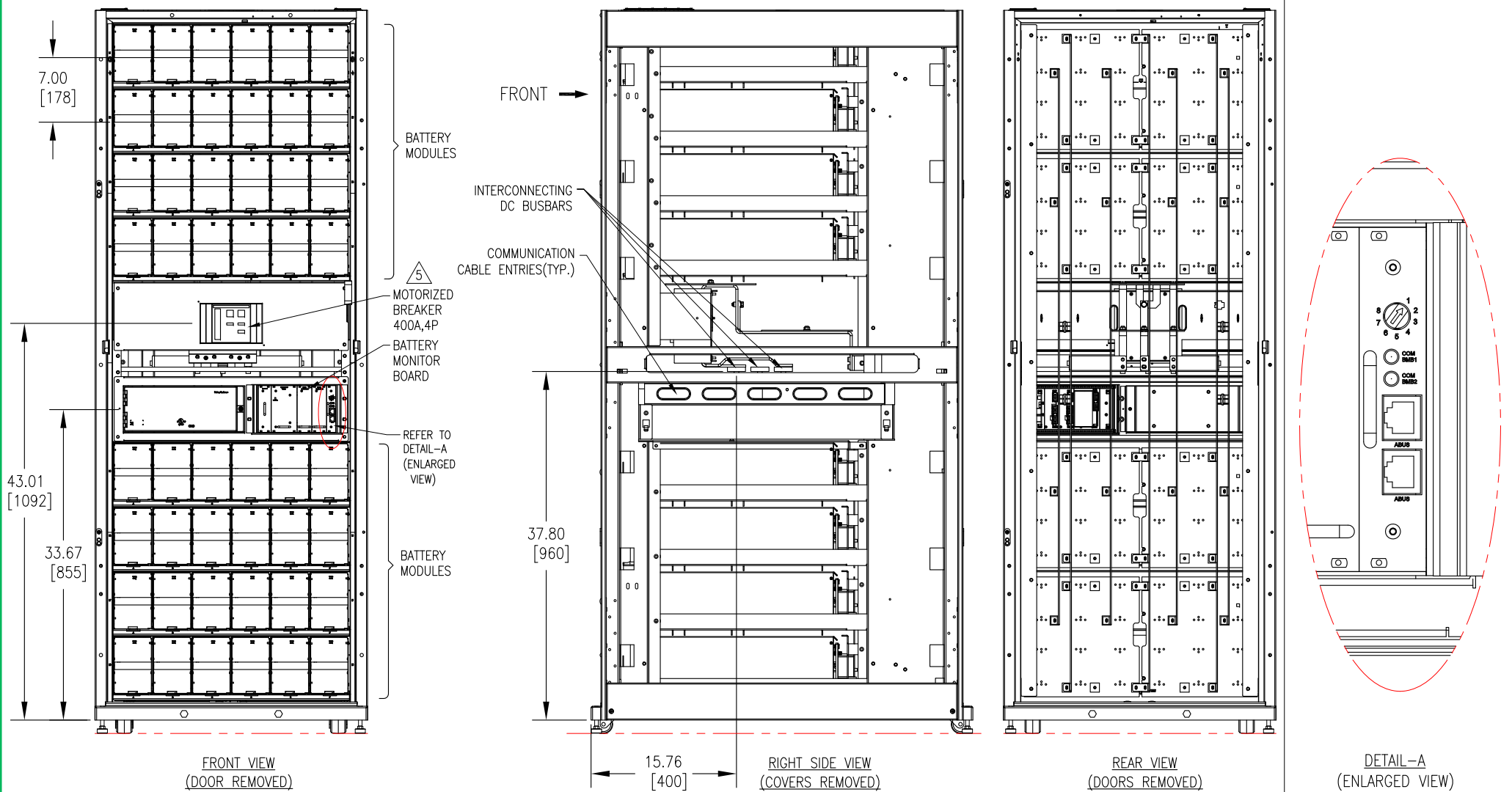
APPROVED BY: B.SHERIDAN/E.SILVA 03-FEB-15

REV. 1

THIRD

ANGLE

PROJECTION



#### NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN MILLIMETERS.
4. SOME STRUCTURAL DETAILS HAVE BEEN OMITTED FOR THE PURPOSE OF CLARITY.
- △ 5. CIRCUIT BREAKER (MOTORIZED), ABB, 400A 600V 4POLE T5, WITH 24V DC SHUNT TRIP AND AUX. CONTACT. MOTORIZED BREAKER TRIP UNIT ACTIVATED THROUGH EPO/UPS 24V DC SIGNAL.

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**Schneider Electric**

TITLE: SYMMETRA PX  
Input: 480V AC 3PH SINGLE MAINS  
Output: 480V AC 3PH 500kW  
TOP ENTRY 2 MOD W/ LINE-UP MODULAR BATTERY  
BATTERY FRAME INTERNAL VIEW

PROJECT: DRAWINGS SHEET 10 OF 14

DWG NO: SY250K500TG1C2-4W-LB

DRAWN BY: RAMESH B 12-APR-12

ENGINEER: M.LEPARD/A.WARNER 12-APR-12

APPROVED BY: B.SHERIDAN/E.SILVA 12-APR-12

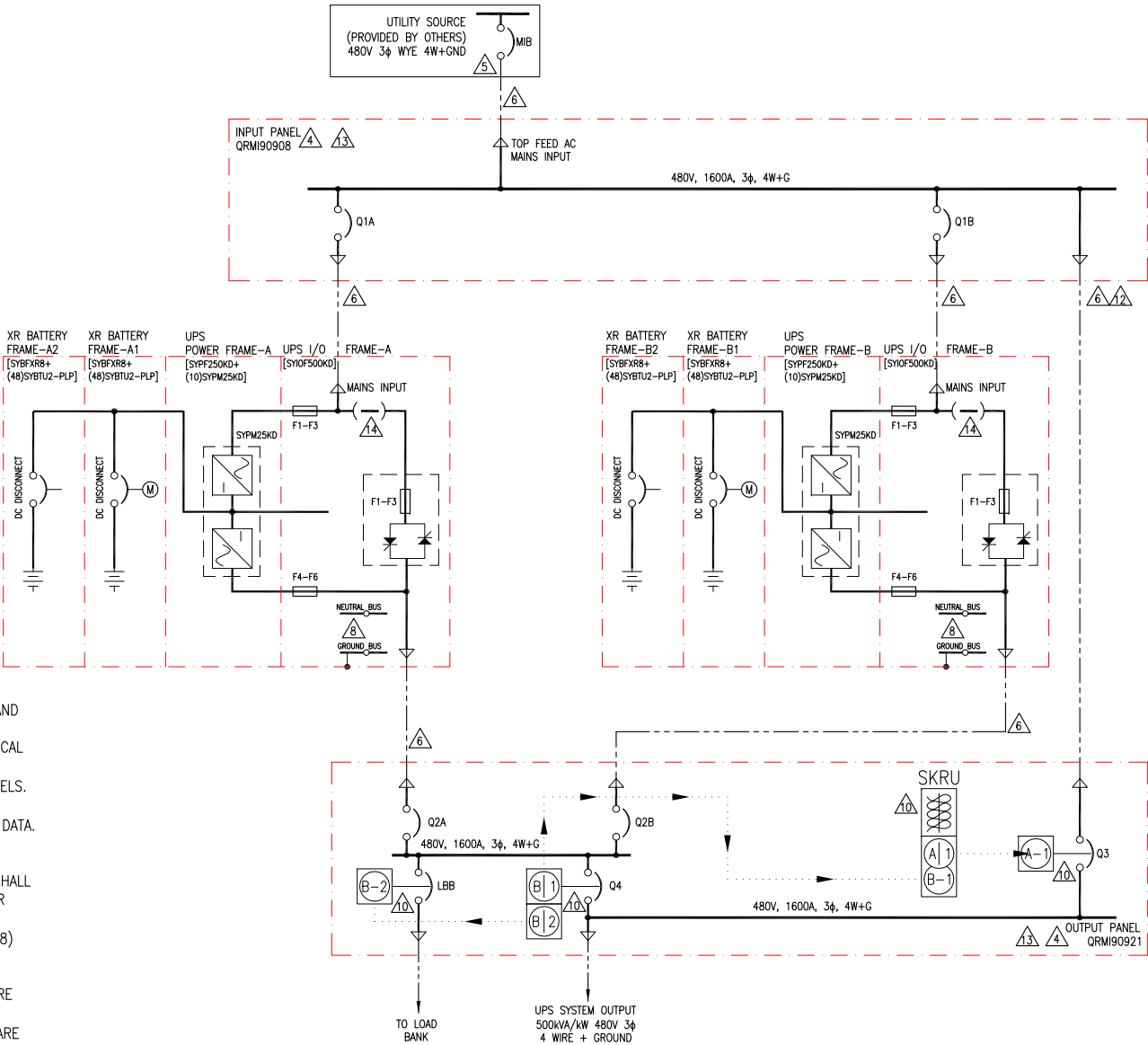
REV. 0

THIRD

ANGLE

PROJECTION

| DEVICE RATING                   |                           |                       |                    |                       |  |
|---------------------------------|---------------------------|-----------------------|--------------------|-----------------------|--|
| DEVICE                          | RATING                    | TYPE                  | MAKE               | MODEL                 | ACCESSORIES  |
| Q1A, Q1B                        | 800A, 600V<br>100% RATED  | MCCB,<br>3 POLE       | Schneider Electric | PJP36080CU33AACBCSKYP | 3A/3B AUX CONT,<br>BELL ALARM, 24VDC<br>SHUNT TRIP, ML 5.0<br>TRIP UNIT  |
| Q2A, Q2B                        | 700A, 600V<br>100% RATED  | ICCB,<br>4 POLE       | Schneider Electric | BL1AAV33B9CXBXXXXA    | 8A/8B AUX CONT,<br>BELL ALARM, 24VDC<br>SHUNT TRIP, ML 5.0<br>TRIP UNIT  |
| Q3                              | 1600A, 600V<br>100% RATED | ICCB,<br>4 POLE       | Schneider Electric | BL1EEV33A9CFFXXXXA    | 8A/8B AUX CONT,<br>BELL ALARM, 120VAC<br>SHUNT TRIP, ML 5.0<br>TRIP UNIT |
| Q4                              | 1600A, 600V<br>100% RATED | ICCB,<br>4 POLE       | Schneider Electric | BL1EEV33A9CXBXXXXA    | 8A/8B AUX CONT,<br>BELL ALARM, 24VDC<br>SHUNT TRIP, ML 5.0<br>TRIP UNIT  |
| LBB                             | 1600A, 600V<br>100% RATED | ICCB,<br>3 POLE       | Schneider Electric | WL1EEV33A9CXBXXXXA    | 8A/8B AUX CONT,<br>BELL ALARM, 24VDC<br>SHUNT TRIP, ML 5.0<br>TRIP UNIT  |
| DC DISCONNECT                   | 400A, 600V<br>DC          | MCCB,<br>4 POLE       | ABB                | T5                    | 1 AUX CONT, 24VDC,<br>SHUNT TRIP,<br>ACTUATOR                            |
| INVERTER FUSES<br>F1-F3 / F4-F6 | 1250A, 700V               | HIGH<br>SPEED<br>FUSE | BUSSMANN           | 170M6466              | --   |
| SSW FUSES<br>F1-F3              | 630A, 700V                | HIGH<br>SPEED<br>FUSE | BUSSMANN           | 170M5162              | --   |



**NOTES:**

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT, PLEASE REFER TO MECHANICAL DRAWINGS FOR PHYSICAL LAYOUT.
- △ 4. MAXIMUM RATED SHORT CIRCUIT CURRENT IS 65kAIC, FOR UPS AND INPUT/OUTPUT PANELS.
- △ 5. AC UTILITY SOURCE SHALL BE 480VAC, 3φ, SOLIDLY GROUND WYE, 4 WIRE+GROUND (CONTACT Schneider Electric IF OTHER). SEE SHEET 13 FOR SITE PLANNING SUBMITTAL DATA.
- △ 6. AC CABLING SHALL BE 600V RATED, 4 WIRE+GROUND.
7. CABLE LUGS ARE NOT PROVIDED.
- △ 8. THE NEUTRAL TO GROUND SYSTEM BONDING JUMPER PROVIDED BY Schneider Electric SHALL NOT BE INSTALLED FOR 4 WIRE OUTPUT CONFIGURATION. SEE INSTALLATION MANUAL FOR DETAILS.
9. THIS DRAWING SHOWS MINIMUM NUMBER OF XR BATTERY FRAMES PER UPS. MAXIMUM (8) XR BATTERY FRAMES CAN BE BAYED TO EACH UPS. BAYING KIT IS SUPPLIED WITH THIS SOLUTION. XR BATTERY FRAME HAS MOTORIZED BREAKER.
- △ 10. KEY INTERLOCKS WITH SKRU, SCHEME 39, BETWEEN Q3 AND Q4, ARE OPTIONAL AND ARE NOT INCLUDED AS STANDARD WITH THE SYSTEM. (SCHEME 39 ADDER IS QCC67185) KEY INTERLOCKS WITH SKRU, SCHEME 29, BETWEEN LBB AND Q4, ARE OPTIONAL AND ARE NOT INCLUDED AS STANDARD WITH THE SYSTEM. (SCHEME 29 ADDER IS QCBA39274) LBB IS OPTIONAL AND IS NOT INCLUDED AS STANDARD WITH THE SYSTEM. (LBB ADDER IS QRM190957) INSTALLATION OF LBB AND KEY INTERLOCKS WITH SKRU IS STRONGLY RECOMMENDED.
11. CABLE LENGTHS FOR STATIC BYPASS INPUT AND OUTPUT SHALL BE SAME SUM TOTAL TO ENSURE CORRECT LOAD SHARING IN STATIC BYPASS OPERATION.
- △ 12. CABLE SIZE AND INSTALLATION SHALL COMPLY WITH NEC ART. 240.21. IF NOT, USE CABLES RATED SAME AS THE MIB FEEDER.
- △ 13. THIRD PARTY PRODUCT PROVIDED BY Schneider Electric. NOT PART OF THIS SOLUTION.
- △ 14. SINGLE MAINS IS A DEFAULT CONFIGURATION. BUS BAR LINKS MUST BE PRESENT FOR SINGLE MAINS INSTALLATION.

**LEGEND:**

----- AC CABLE - PROVIDED BY OTHERS

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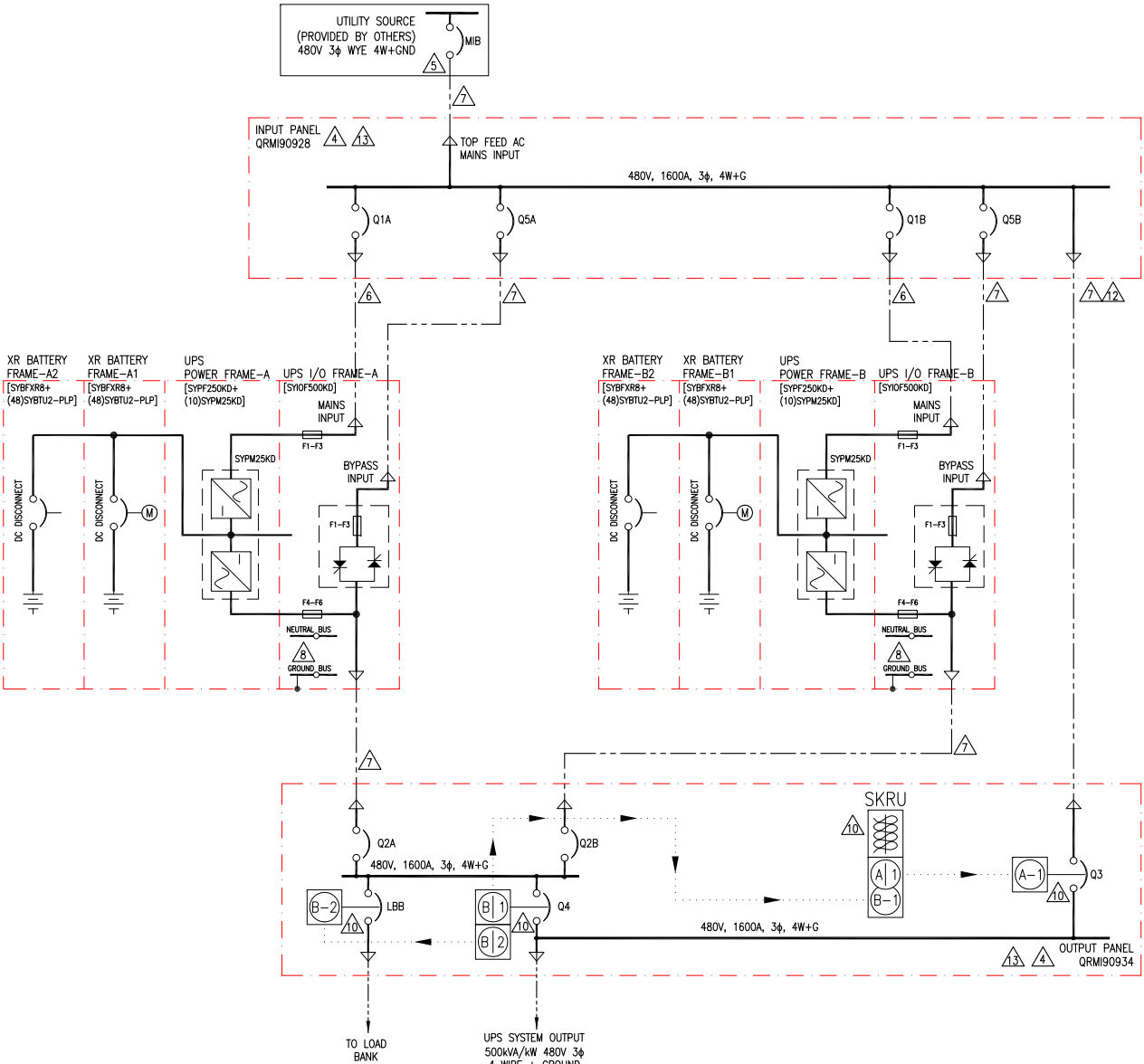


TITLE: SYMMETRA PX  
Input: 480V AC 3PH SINGLE MAINS  
Output: 480V AC 3PH 500kW  
TOP ENTRY 2 MOD W/ LINE-UP MODULAR BATTERY  
SYSTEM ONE LINE DIAGRAM-SINGLE FEED  
PROJECT: DRAWINGS SHEET 110F14

DWG NO: SY250K500TG1C2-4W-LB  
DRAWN BY: BALA/S CUNHA 03-FEB-15  
ENGINEER: D LOEWENSTEIN/P BOUCHER 03-FEB-15  
APPROVED BY: B SHERIDAN/C FLY 03-FEB-15

REV. 2  
ANGLE  
PROJECTION:  
N/A

| DEVICE RATING                   |                           |                       |                    |                       |  |
|---------------------------------|---------------------------|-----------------------|--------------------|-----------------------|--|
| DEVICE                          | RATING                    | TYPE                  | MAKE               | MODEL                 | ACCESSORIES  |
| Q1A, Q1B                        | 800A, 600V<br>100% RATED  | MCCB,<br>3 POLE       | Schneider Electric | PJP36080CU33AACBCSKYP | 3A/3B AUX CONT,<br>BELL ALARM, 24VDC<br>SHUNT TRIP, ML 5.0<br>TRIP UNIT  |
| Q2A, Q2B                        | 700A, 600V<br>100% RATED  | ICCB,<br>4 POLE       | Schneider Electric | BL1AAV33B9CXBXXXXA    | 8A/8B AUX CONT,<br>BELL ALARM, 24VDC<br>SHUNT TRIP, ML 5.0<br>TRIP UNIT  |
| Q3                              | 1600A, 600V<br>100% RATED | ICCB,<br>4 POLE       | Schneider Electric | BL1EEV33A9CXFXXXXA    | 8A/8B AUX CONT,<br>BELL ALARM, 120VAC<br>SHUNT TRIP, ML 5.0<br>TRIP UNIT |
| Q4                              | 1600A, 600V<br>100% RATED | ICCB,<br>4 POLE       | Schneider Electric | BL1EEV33A9CXBXXXXA    | 8A/8B AUX CONT,<br>BELL ALARM, 24VDC<br>SHUNT TRIP, ML 5.0<br>TRIP UNIT  |
| Q5A, Q5B                        | 700A, 600V<br>100% RATED  | MCCB,<br>3 POLE       | Schneider Electric | PJP36080CU33BCBCSKYP  | 3A/3B AUX CONT,<br>BELL ALARM, 24VDC<br>SHUNT TRIP, ML 5.0<br>TRIP UNIT  |
| LBB                             | 1600A, 600V<br>100% RATED | ICCB,<br>3 POLE       | Schneider Electric | WL1EEV33A9CXBXXXXA    | 8A/8B AUX CONT,<br>BELL ALARM, 24VDC<br>SHUNT TRIP, ML 5.0<br>TRIP UNIT  |
| DC DISCONNECT<br>F1-F3 / F4-F6  | 400A, 600V DC             | MCCB,<br>4 POLE       | ABB                | T5                    | 1 AUX CONT, 24VDC,<br>SHUNT TRIP, ACTUATOR                               |
| INVERTER FUSES<br>F1-F3 / F4-F6 | 1250A, 700V               | HIGH<br>SPEED<br>FUSE | BUSSMANN           | 170M6466              | --   |
| SSW FUSES<br>F1-F3              | 630A, 700V                | HIGH<br>SPEED<br>FUSE | BUSSMANN           | 170M5162              | --   |



NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT, PLEASE REFER TO MECHANICAL DRAWINGS FOR PHYSICAL LAYOUT.
4. MAXIMUM RATED SHORT CIRCUIT CURRENT IS 65KAIC, FOR UPS AND INPUT/OUTPUT PANELS.
5. AC UTILITY SOURCE SHALL BE 480VAC, 3 $\phi$ , SOLIDLY GROUNDED WYE, 4 WIRE+GROUND (CONTACT Schneider Electric IF OTHER). SEE SHEET 13 FOR SITE PLANNING SUBMITTAL DATA.
6. AC CABLING SHALL BE 600V RATED, 3 WIRE+GROUND.
7. AC CABLING SHALL BE 600V RATED, 4 WIRE+GROUND.
8. THE NEUTRAL TO GROUND SYSTEM BONDING JUMPER PROVIDED BY Schneider Electric. SHALL NOT BE INSTALLED FOR 4 WIRE OUTPUT CONFIGURATION. SEE INSTALLATION MANUAL FOR DETAILS.
9. THIS DRAWING SHOWS MINIMUM NUMBER OF XR BATTERY FRAMES PER UPS. MAXIMUM (8) XR BATTERY FRAMES CAN BE BAYED TO EACH UPS. BAYING KIT IS SUPPLIED WITH THIS SOLUTION. XR BATTERY FRAME HAS MOTORIZED BREAKER.
10. KEY INTERLOCKS WITH SKRU, SCHEME 39, BETWEEN Q3 AND Q4, ARE OPTIONAL AND ARE NOT INCLUDED AS STANDARD WITH THE SYSTEM. (SCHEME 39 ADDER IS QCC67185) KEY INTERLOCKS WITH SKRU, SCHEME 29, BETWEEN LBB AND Q4, ARE OPTIONAL AND ARE NOT INCLUDED AS STANDARD WITH THE SYSTEM. (SCHEME 29 ADDER IS QCB39274) LBB IS OPTIONAL AND IS NOT INCLUDED AS STANDARD WITH THE SYSTEM. (LBB ADDER IS QRM90964) INSTALLATION OF LBB AND KEY INTERLOCKS WITH SKRU IS STRONGLY RECOMMENDED.
11. CABLE LENGTHS FOR STATIC BYPASS INPUT AND OUTPUT SHALL BE SAME SUM TOTAL TO ENSURE CORRECT LOAD SHARING IN STATIC BYPASS OPERATION.
12. CABLE SIZE AND INSTALLATION SHALL COMPLY WITH NEC ART. 240.21. IF NOT, USE CABLES RATED SAME AS THE MIB FEEDER.
13. CABLE LUGS ARE NOT PROVIDED.
14. THIRD PARTY PRODUCT PROVIDED BY Schneider Electric. NOT PART OF THIS SOLUTION.

LEGEND:

AC CABLE - PROVIDED BY OTHERS

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TITLE: SYMMETRA PX  
Input: 480V AC 3PH SINGLE MAINS  
Output: 480V AC 3PH 500kW  
TOP ENTRY 2 MOD W/ LINE-UP MODULAR BATTERY  
SYSTEM ONE LINE DIAGRAM-DUAL FEED

PROJECT: DRAWINGS SHEET 12 OF 14

DWG NO: SY250K500TG1C2-4W-LB

DRAWN BY: BALAS CUNHA 03-FEB-15

ENGINEER: D LOEWENSTEIN/P BOUCHER 03-FEB-15

APPROVED BY: B SHERIDAN/C FLY 03-FEB-15

REV. 2

ANGLE

PROJECTION:

N/A

| Symmetra™ PX 250K UPS 2 Module Site Planning Data - Single Feed w/o MBwD - 4 Wire |  |     |     |                    |                     |                                     |                   |                              |            |         |           |   |            |                        |                 |            |                             |                   |                              |            |          |           |   |                         |  |   |
|---|--|-----|-----|--------------------|---------------------|-------------------------------------|-------------------|------------------------------|------------|---------|-----------|---|------------|------------------------|-----------------|------------|-----------------------------|-------------------|------------------------------|------------|----------|-----------|---|-------------------------|--|---|
| UPS Rating  |  |     |     | Voltage(VAC)       |                     | Mains AC Input - (MIB) <sup>1</sup> |                   |                              |            |         |           | External Battery System <sup>3, 6</sup> |            |                        |                 |            | AC Output (Q2) <sup>2</sup> |                   |                              |            |          |           | Mechanical Data (UPS+I/O Frame only) <sup>5, 11</sup> |                         |  |   |
|   |  |     |     |                    |                     | Current(A)                          |                   | Recommendations <sup>3</sup> |            |         |           | Nominal VDC                             | Battery kW | Current @ Nom. VDC (A) | Recommendations |            | Current(A)                  |                   | Recommendations <sup>3</sup> |            |          |           | Typical Dimensions (HxWxD) Inch [mm]                  | Average Weight Lbs [kg] | Floor Loading Lbs/Ft <sup>2</sup> [kg/m <sup>2</sup> ] | Heat Rejection Battery Fully Charged BTU/HR |
| UPS Frame Rating  | Qty of 25kW Power Modules <sup>9</sup> | kVA | kW  | Input <sup>1</sup> | Output <sup>2</sup> | Full Load                           | Max. <sup>7</sup> | 100%OCPD                     | 100% Cable | 80%OCPD | 80% Cable |   |            |                        | 100% OCPD       | 100% Cable | NOM.                        | Max. <sup>8</sup> | 100% OCPD                    | 100% Cable | 80% OCPD | 80% Cable |   |                         |  |   |
| 250kVA/250kW 1x 250K Frame  | 4                                      | 100 | 100 | 480                | 480                 | 139                                 | 149               | 150A                         | 1x 1/0     | 175A    | 1x 2/0    | 2x 288                                  | 104        | 181                    | 200A            | 1x 3/0     | 120                         | 150               | 125A                         | 1x 1       | 150A     | 1x 1/0    | 78.4x47.3x42 [1991x1201x1067]                         | 1808 [822]              | 131 [641]  | 14217                                       |
|   | 5                                      | 125 | 125 | 480                | 480                 | 173                                 | 186               | 200A                         | 1x 3/0     | 225A    | 1x 4/0    | 2x 288                                  | 130        | 226                    | 250A            | 1x 4/0     | 150                         | 188               | 150A                         | 1x 1/0     | 200A     | 1x 3/0    |   | 1901 [864]              | 138 [674]  | 17771                                       |
|   | 6                                      | 150 | 150 | 480                | 480                 | 208                                 | 223               | 225A                         | 1x 4/0     | 300A    | 1x 300    | 2x 288                                  | 156        | 271                    | 300A            | 1x 300     | 180                         | 226               | 200A                         | 1x 3/0     | 250A     | 1x 4/0    |   | 1993 [906]              | 144 [707]  | 21325                                       |
|   | 7                                      | 175 | 175 | 480                | 480                 | 242                                 | 261               | 300A                         | 1x 300     | 350A    | 1x 350    | 2x 288                                  | 182        | 316                    | 350A            | 1x 400     | 210                         | 263               | 225A                         | 1x 4/0     | 300A     | 1x 300    |   | 2086 [948]              | 151 [740]  | 24879                                       |
|   | 8                                      | 200 | 200 | 480                | 480                 | 277                                 | 298               | 300A                         | 1x 350     | 350A    | 1x 500    | 2x 288                                  | 208        | 362                    | 400A            | 1x 500     | 241                         | 301               | 250A                         | 1x 250     | 350A     | 1x 350    |   | 2178 [990]              | 158 [773]  | 28433                                       |
|   | 9                                      | 225 | 225 | 480                | 480                 | 312                                 | 335               | 350A                         | 1 x 400    | 400A    | 2x 3/0    | 2x 288                                  | 234        | 407                    | 450A            | 2x 4/0     | 271                         | 338               | 300A                         | 1x 300     | 350A     | 1x 500    |   | 2270 [1032]             | 165 [805]  | 31988                                       |
|   | 10                                     | 250 | 250 | 480                | 480                 | 346                                 | 372               | 400A                         | 1x 500     | 450A    | 2x 4/0    | 2x 288                                  | 260        | 452                    | 500A            | 2x 4/0     | 301                         | 376               | 350A                         | 1x 350     | 400A     | 1x 500    |   | 2363 [1074]             | 171 [838]  | 35542                                       |

| Symmetra® PX 250K UPS 2 Module SWBD Site Planning Data <sup>13</sup> |                 |     |     |                    |                     |   |                   |                              |            |   |                   |                              |            |                                 |                   |                              |            |   |
|--|-----------------|-----|-----|--------------------|---------------------|---|-------------------|------------------------------|------------|---|-------------------|------------------------------|------------|---------------------------------|-------------------|------------------------------|------------|---|
| UPS System Rating  |                 |     |     | Voltage(VAC)       |                     | Mains AC Input Single or Dual Feed (MIB) <sup>1</sup> |                   |                              |            | Bypass AC Input - Dual Feed (BIB - Q3) <sup>2</sup> |                   |                              |            | AC Output (Q4-LBB) <sup>2</sup> |                   |                              |            | Heat Rejection Battery Fully Charged BTU/HR |
| UPS Frame Rating   | QTY in parallel | kVA | kW  | Input <sup>1</sup> | Output <sup>2</sup> | Current(A)  |                   | Recommendations <sup>3</sup> |            | Current(A)  |                   | Recommendations <sup>3</sup> |            | Current(A)                      |                   | Recommendations <sup>3</sup> |            |   |
|  |                 |     |     |                    |                     | Full Load   | Max. <sup>7</sup> | 100% OCPD                    | 100% Cable | NOM.  | Max. <sup>8</sup> | 100% OCPD                    | 100% Cable | NOM.                            | Max. <sup>8</sup> | 100% OCPD                    | 100% Cable |   |
|  |                 |     |     |                    |                     |   |                   |                              |            |   |                   |                              |            |                                 |                   |                              |            |   |
| 250kVA<br>250kW  | 2               | 500 | 500 | 480                | 480                 | 693   | 745               | 800A                         | 2x 500     | 601   | 752               | 700A                         | 2x 350     | 601                             | 752               | 700A                         | 2x 350     | 71,083                                      |

Symmetra™ PX

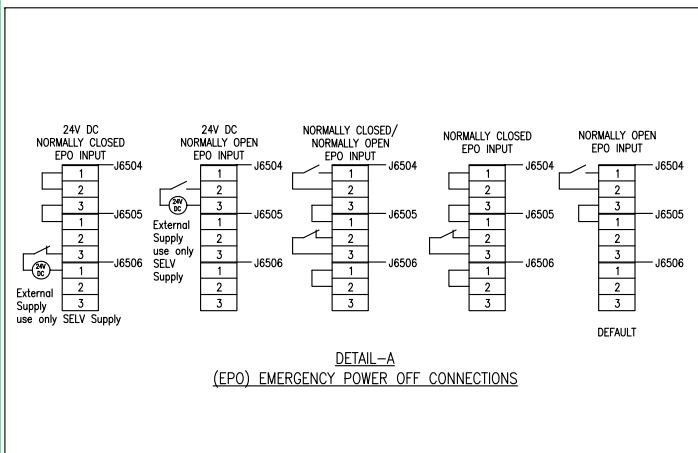
Notes.

- Mains Input source must be 480V Wye 4-wire+ Ground. Contact Schneider Electric if other.
- Output is 480V Wye 4-wire + Ground. The Mais input source must match the output configuration .
- Recommended cables are AWG/kcmil minimum requirement for three (3) current carrying conductors in raceway, sized for 30<sup>0</sup> C environment and 75<sup>0</sup> C terminations. All cabling must comply with installation site conditions and any applicable Local and or National Codes.
- Ratings of the cables and over current devices supplied for information only. User to consult with their engineering services before adopting.
- Mechanical Data is approximate and does not include the battery system or external DC Disconnects. For precise mechanical data on your planned system configuration contact Schneider Electric.
- Contact Schneider Electric for assistance with all external battery designs. Maximum allowed DC cabling voltage drop is 1 VDC. Schneider Electric Standard external DCD's are rated 500A (PX 250kVA) & 1000A (PX 500kVA).
- Electronic Input Current Limit.
- This is the UPS short time rating of 125% Overload for 10minutes. Actual short time performance may be limited by the over current protective device selected.
- For maximum scalability or future expansion it is recommended that the UPS frames be installed at their full ratings- see bold text data.
- All OCPD's and cabling are by others.
- Heat rejection calculations are based on watt to BTU/HR conversion factor of 1watt= 3.412 BTU/HR.
- OCPD = Over Current Protective Device.
- Common battery system is not allowed or supported for this product.
- All wirings to be in accordance with all applicable national and/or local electrical codes.
- Control wiring and power wiring must be run in separate conduit.
- Input: THDI < 5% at full load.
- Output: THDU < 2% Linear Load, < 3% Non Linear Load.
- For back-to-back UPS installations, the Plexiglass French Door Kit (0H-0242) must be installed at the rear of each Power frame and I/O frame to ensure proper air flow. To prevent batteries from being overheated by hot air from the power frames, battery frames must be installed back to back, and power frames must be installed back to back.

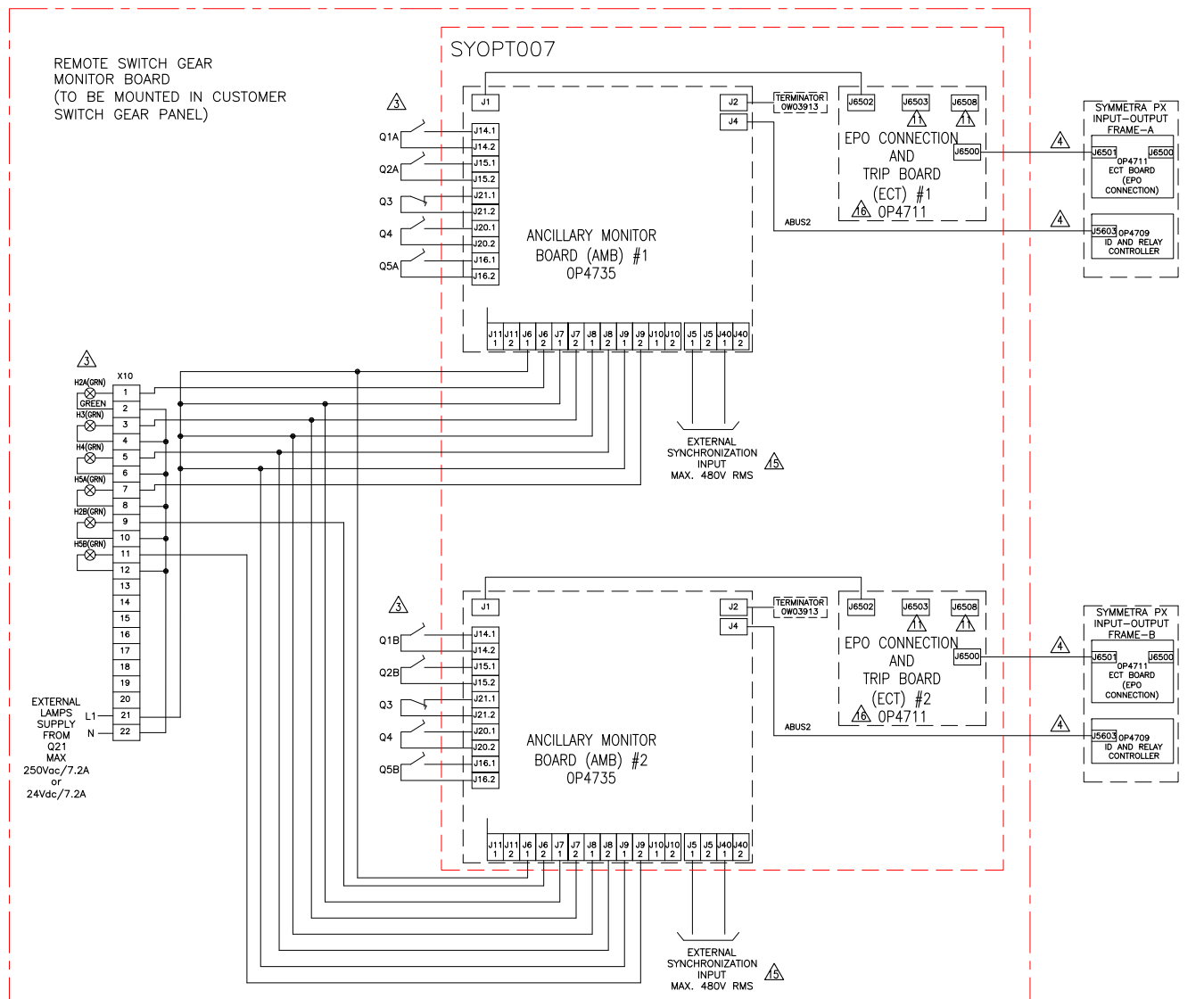
| Efficiency Details |          |          |          |           |
|--------------------|----------|----------|----------|-----------|
| UPS Rating         | 25% load | 50% load | 75% load | 100% load |
| 250kVA/250kW       | 95.2%    | 96.2%    | 96.3%    | 96.3%     |

|   |   |  |  |                                 |  |                  |
|---|---|--|--|---------------------------------|--|------------------|
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|   |   | PROJECT: DRAWINGS  |  | DRAWN BY: RAMESH B              |  | 12-APR-12        |
|   |   | SHEET 13 OF 14   |  | ENGINEER: M.LEPARD/A.WARNER     |  | 12-APR-12        |
|   |   |  |  | APPROVED BY: B.SHERIDAN/E.SILVA |  | 12-APR-12        |
|   |   |  |  |                                 |  | ANGLE PROJECTION |
|   |   |  |  |                                 |  | NA               |





1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. LIGHTS AND CONTACTS ARE FIELD WIRED.
4. STANDARD CABLE LENGTH IS 50 METERS AND IS PART OF SKU SYOPT007.
5. ON EACH SYOPT007, INSTALL TERMINATOR 0W03913 IN THE J2 TERMINAL ON THE AMB.
6. ON EACH SYOPT007, CONNECT THE "ABUS" CABLE(0W3785C) FROM J4 ON THE AMB(OP4735) TO THE "ABUS" TERMINAL CONNECTION BOARD OF ID AND RELAY CONTROLLER ON THE FRONT OF THE INPUT/OUTPUT ENCLOSURE.
7. IN EACH UPS, CONNECT THE ECT CABLE(0W3759A) FROM J6500 ON THE ECT BOARD(OP4711) IN MBP TO J6501 ON THE ECT BOARD(OP4711) IN THE TOP OF THE INPUT/OUTPUT ENCLOSURE.
8. IN EACH UPS, CONNECT NORMALLY OPEN(NO) AUXILIARY SWITCH FOR Q1, Q2 AND Q5 STATUS.
9. IN EACH UPS, CONNECT H2 AND H5 LAMPS FOR PERMISSION TO OPERATE Q2 AND Q5.
10. INSTALL 1A FUSE ON EACH PHASE ON THE EXTERNAL SYNC CABLE AT THE SYNC. SOURCE.
11. IN EACH UPS, CONNECT CABLE FOR Q2 TRIPPING TO EITHER:
  - A. J6503(UVR). WHEN USING SQUARE D UVR OR ABB S8 UVR, AN EXTERNAL 24V DC SELV SUPPLY SHOULD BE CONNECTED TO J6507. FOR THE UVR, THE FOLLOWING PARTS ARE NEEDED TO CONNECT J6503 PIN 2 AND 3: 1 TYCO 1-480700-0, M&L 3-POSITINO PLUG HOUSING AND 2 TYCO 3650218-3 M&L PIN, AWG 20-14 (NOT SUPPLIED).
  - B. J6508 (SOR). FOR THE SOR SHUNT TRIP, THE FOLLOWING PARTS ARE NEEDED TO CONNECT TO J6508: 1 TYCO 1-480698-0, M&L 2-POSITINO PLUG HOUSING AND 2 TYCO 350218-3 M&L PIN, AWG 20-147 (NOT SUPPLIED).
12. CONNECT NC CONTACT FOR Q3. EACH UPS MUST BE CONNECTED TO A SEPARATE DRY CONTACT.
13. CONNECT NO CONTACT FOR Q4. EACH UPS MUST BE CONNECTED TO A SEPARATE DRY CONTACT.
14. CONNECT H3 AND H4 LAMPS IN PARALLEL.
15. OPTION: CONNECT EXTERNAL SYNCHRONIZATION CABLES FROM L1 AND L2 OF THE PREFERRED AC SOURCE TO J5(L1) AND J40(L2) ON THE OP4735 BOARD FOR EACH UPS IN PARALLEL SYSTEM.
16. FOR EPO CONNECTION DEFAULT SETTING AND OPTIONS REFER TO DETAIL-A.



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**Schneider Electric**

TITLE: SYMMETRA PX  
Input: 480V AC 3PH SINGLE MAINS  
Output: 480V AC 3PH 500kW  
TOP ENTRY 2 MOD W/ LINE-UP MODULAR BATTERY  
SYSTEM WIRING DIAGRAM

PROJECT: DRAWINGS SHEET 14 OF 14

DWG NO: SY250K500TG1C2-4W-LB

DRAWN BY: BALAMURUGAN

ENGINEER: M LEPARD

APPROVED BY: N BOBBIT

REV. 2

26-FEB-16

26-FEB-16

26-FEB-16

ANGLE  
PROJECTION  
N/A