

- NOTES:**
- INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
 - REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 - ALL DIMENSIONS ARE IN MILLIMETERS [INCHES].
 - A MINIMUM OF 1000mm [39.37 Inches] FRONT, 100mm [3.94 Inches] TOP CLEARANCE REQUIRED. 100mm [3.94 Inches] REAR CLEARANCE IS REQUIRED ONLY FOR SEISMIC ANCHORING INSTALLATION. CLEARANCE DIMENSIONS ARE FOR AIRFLOW AND SERVICE ACCESS ONLY.
 - ALL DIMENSIONS EXCLUDES SCREW PROJECTION OUTSIDE THE ENCLOSURE.
 - CABLE ENTRY IS FROM TOP OF THE UNIT.
 - REFER TO TABLE FOR APPLICABLE SKUs & WEIGHT DETAILS. WEIGHT OF ONE BATTERY MODULE IS 16.5 kg [36.38 lb].
 - COLOR: RAL9003, GLOSS LEVEL 85%.
 - PROTECTION CLASS: IP20.
 - OPERATING TEMPERATURE: 18 – 28°C [64 – 82°F]. TO OPTIMIZE THE LIFE OF BATTERY, IT IS RECOMMENDED TO MAINTAIN 25°C [77°F].
 - THIS INFORMATION PROVIDES APPROXIMATE CENTER OF GRAVITY CALCULATION.
 - BATTERY RACKS CAN BE BAYED SIDE BY SIDE AND BACK TO BACK. REFER TO INSTALLATION MANUAL FOR DETAILS.

SKU NUMBER	WEIGHT IN kg [lb]		COG IN mm [Inch]					
	Empty Rack	Fully loaded Rack	Empty Rack			Fully loaded Rack		
			X-diection	Y-direction	Z-direction	X-diection	Y-direction	Z-direction
LIBSESMG10UL	211 [465]	355 [782.6]	321.5 [12.66]	1031.5 [40.61]	311.2 [12.25]	323.4 [12.73]	1114 [43.86]	289.3 [11.39]

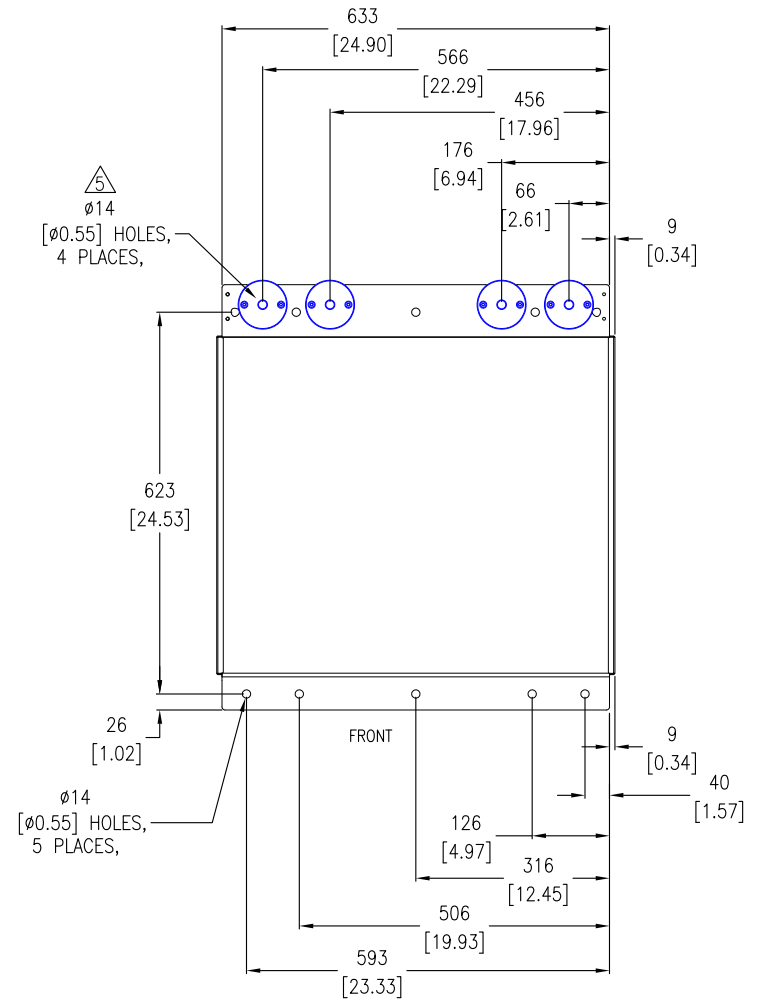
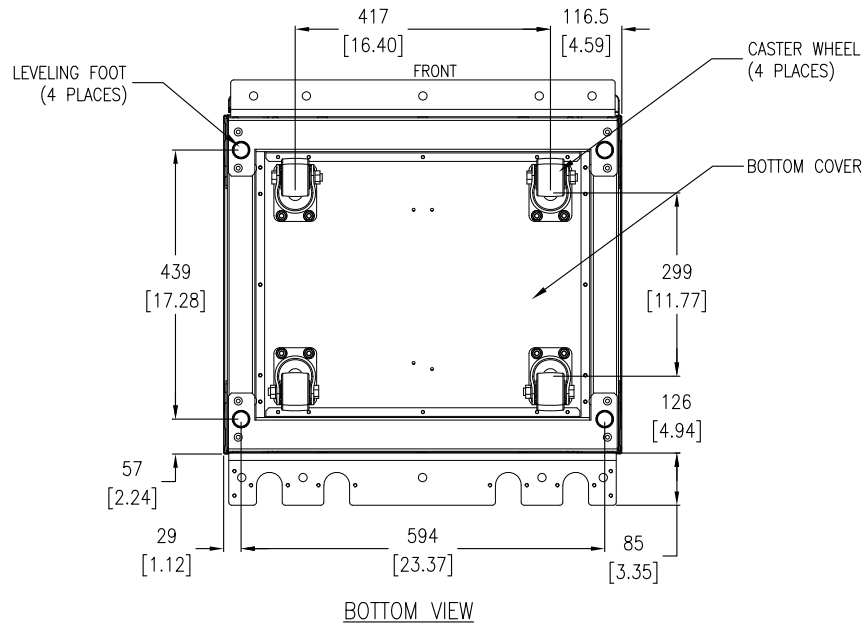
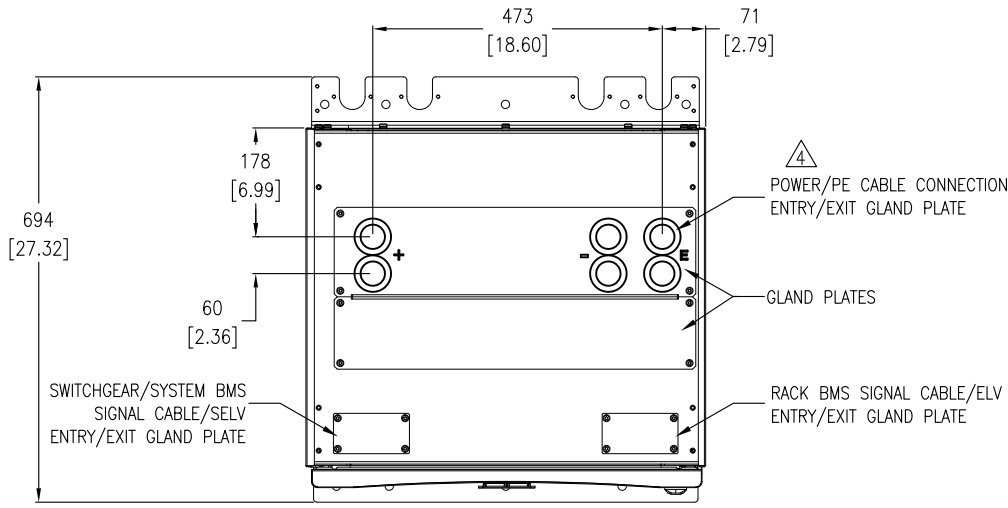
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Schneider Electric

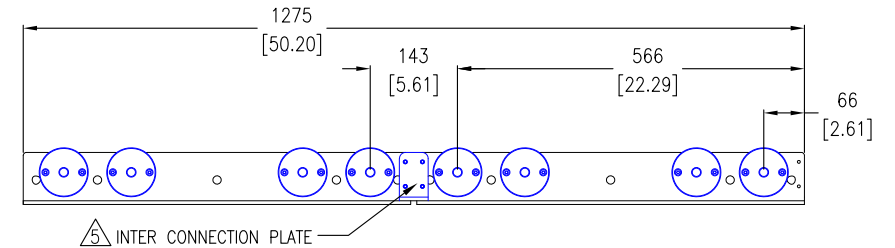
TITLE:
Galaxy Lithium-ion Battery cabinet, SYPX UL GENERAL ARRANGEMENT

PROJECT: SUBMITTAL DRAWINGS SHEET 1 OF 9

DWG NO: LIBSESMG5YPXUL REV. 0
 DRAWN: RANJITHA 08-SEP-22 FIRST ANGLE
 ENGINEER: FRED 08-SEP-22 PROJECTION
 APPROVED: Rick ZHANG 08-SEP-22



SEISMIC ANCHORING DETAILS - 1 BATTERY RACK



SEISMIC ANCHORING DETAILS FOR MORE THAN ONE BATTERY RACK

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 3. ALL DIMENSIONS ARE IN MILLIMETERS [INCHES].
- Δ DO NOT DRILL/PUNCH HOLES WITH THE GLAND PLATES INSTALLED. REMOVE THE GLAND PLATE FROM BATTERY RACK BEFORE DRILLING/PUNCHING. DRILL/PUNCH HOLES ACCORDING TO THE LABEL ON THE GLAND PLATE.
- Δ USE ACCESSORY KIT (OM-95331) TO ANCHOR THE UNIT IN SEISMIC LOCATION. FOR SEISMIC ANCHORING, M12 SCREWS OF STRENGTH GRADE 8.8 HARDWARE ARE REQUIRED TO BE USED.

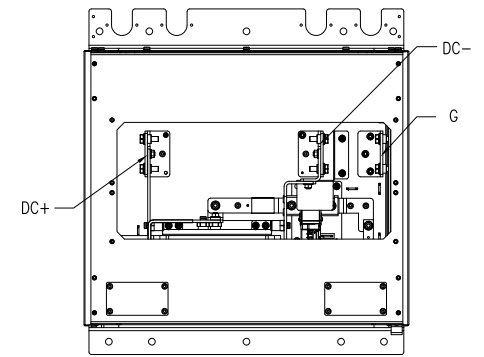
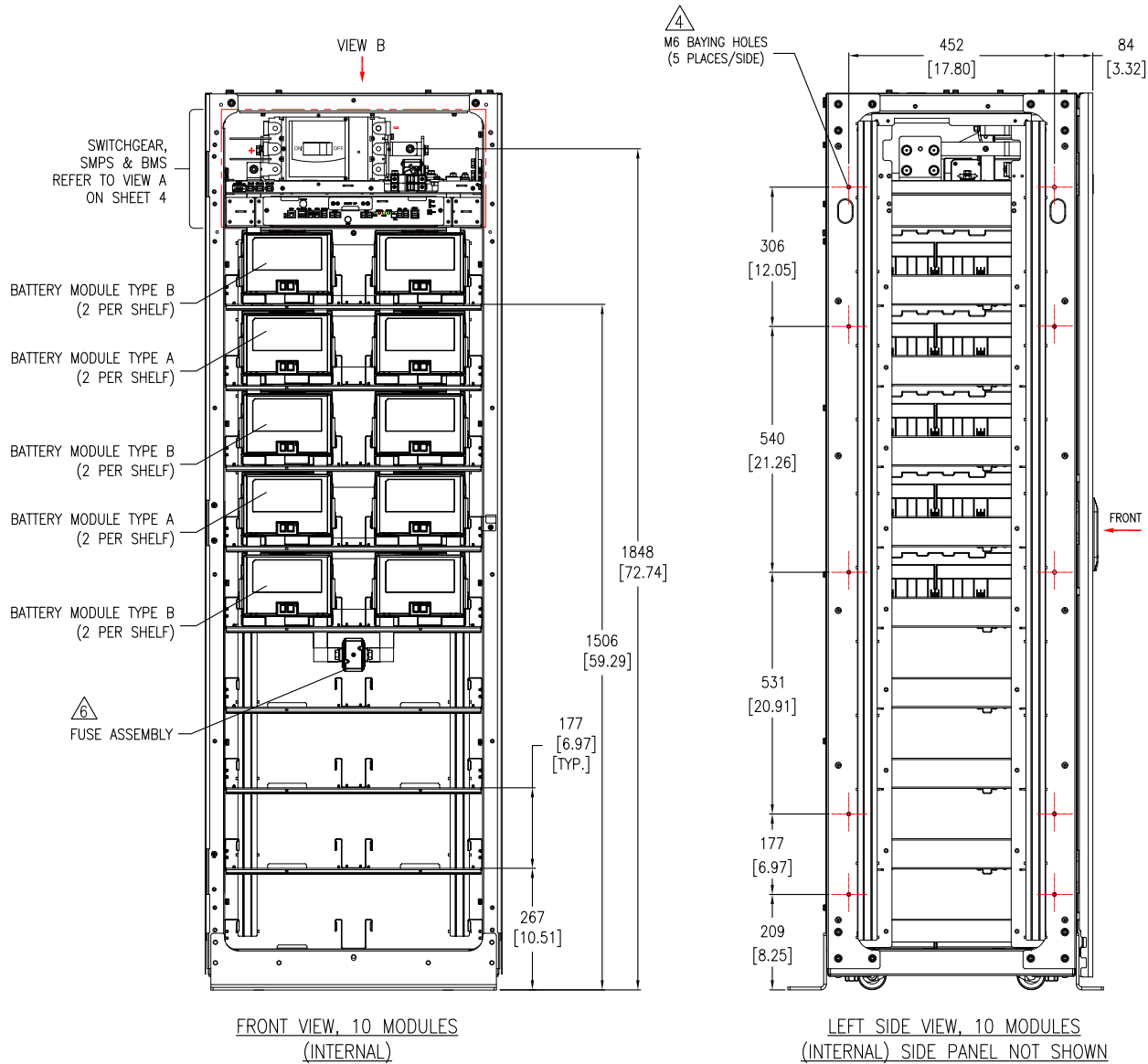
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TITLE: Galaxy Lithium-ion Battery cabinet, SYPX UL
TOP/BOTTOM VIEW & ANCHORING DETAILS
PROJECT: SUBMITTAL DRAWINGS SHEET 2 OF 9

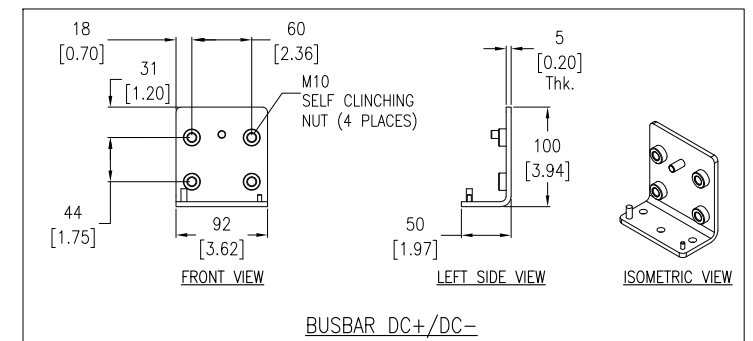
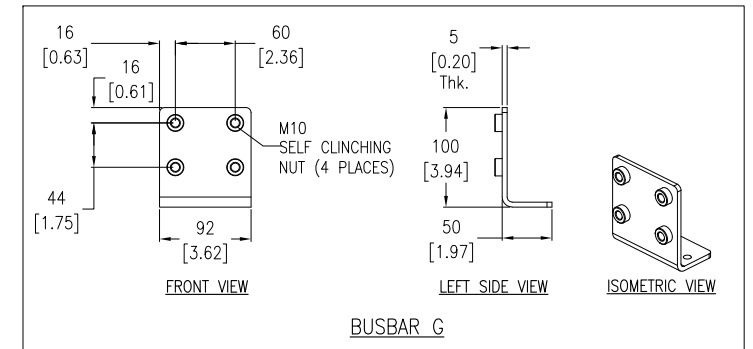
DWG NO: LIBSESMGSPXUL
DRAWN: RANJITHA 08-SEP-22
ENGINEER: FRED 08-SEP-22
APPROVED: Rick ZHANG 08-SEP-22

REV: 0
FIRST ANGLE PROJECTION



VIEW B
GLAND PLATES NOT SHOWN

BUSBAR DETAILS



NOTE: BOLT AND NUTS ARE PROVIDED WITH THE TERMINALS.
RECOMMENDED TORQUE FOR M10 BOLTS IS 30Nm [22.13 lb-ft].

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 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 3. ALL DIMENSIONS ARE IN MILLIMETERS [INCHES].
 4. USE M6x16 SCREWS FOR MOUNTING MULTIPLE RACKS SIDE BY SIDE.
REMOVE SIDE PANELS OF ADJACENT BATTERY RACKS WHILE BAYING.
 5. THE SYSTEM BMS IS LOCATED IN BATTERY STRING 1 ONLY.
 6. USE BUS BARS FROM ACCESSORY KIT LIBSEFUSEKIT AND FUSE FROM ACCESSORY KIT OM-95331.
FUSE SPEC: MERSON MPN PC33UD69V500TF OR LITTLEFUSE MPN PSR033FL0500Z WITH 500A 600Vdc 100KAIC.
 7. SOME STRUCTURAL DETAILS HAVE BEEN OMITTED FOR THE PURPOSE OF CLARITY.

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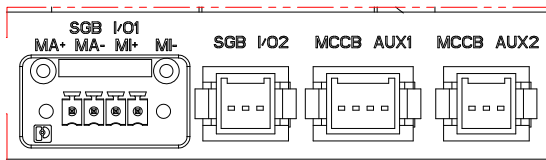
Schneider Electric

TITLE:	DWG NO:	REV:
Galaxy Lithium-ion Battery cabinet, SYPX UL INTERNAL VIEW	LIBSESMGSPXUL	0
PROJECT: SUBMITTAL DRAWINGS SHEET 3 OF 9	DRAWN: RANJITHA	08-SEP-22
	ENGINEER: FRED	08-SEP-22
	APPROVED: Rick ZHANG	08-SEP-22
		FIRST ANGLE PJECTION

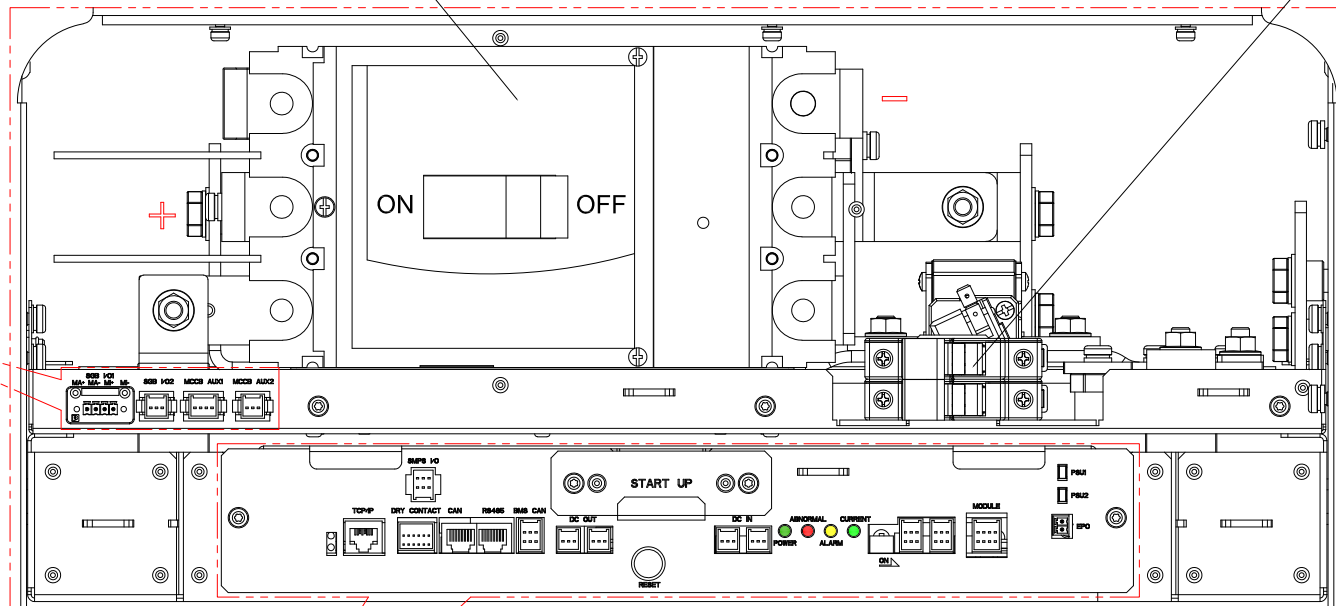
MCCB (Ui=750V; Ir=600A dc)

3 SMPS FUSES

MCCB SETTINGS:
Im = 1500A
APPLY TO ALL CONFIGURATIONS.

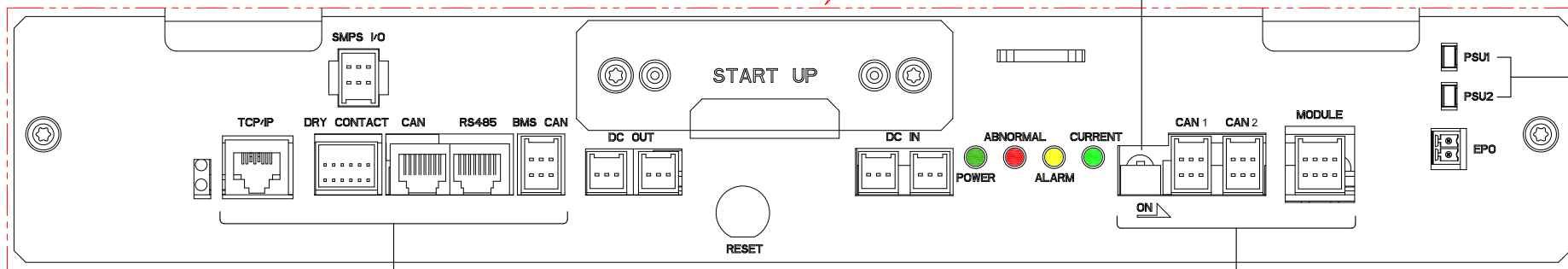


SWITCHGEAR PORTS



VIEW A (ENLARGED)
SWITCHGEAR SMPS AND BMS

CAN BUS LOOP TERMINATION RESISTOR SWITCH



SYSTEM BMS PORTS

4 SMPS AND BMS

RACK BMS PORTS

CABLING NOTES:
CANBUS COMMUNICATIONS BETWEEN RACKS IS SUPPLIED AND INSTALLED BY SCHNEIDER ELECTRIC.

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 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- ⚠ FUSE TYPE: LITTLEFUSE MPN OSPF003.T OR EQUIVALENT WITH 3A 1000Vdc 20KAIC.
- ⚠ FOR 10 MODULES CONFIGURATION, SET DIP SWITCH 1 AND 2 TO ON, AT THE SAME TIME SET SWITCH 3 TO OFF ON SMPS BOARD.

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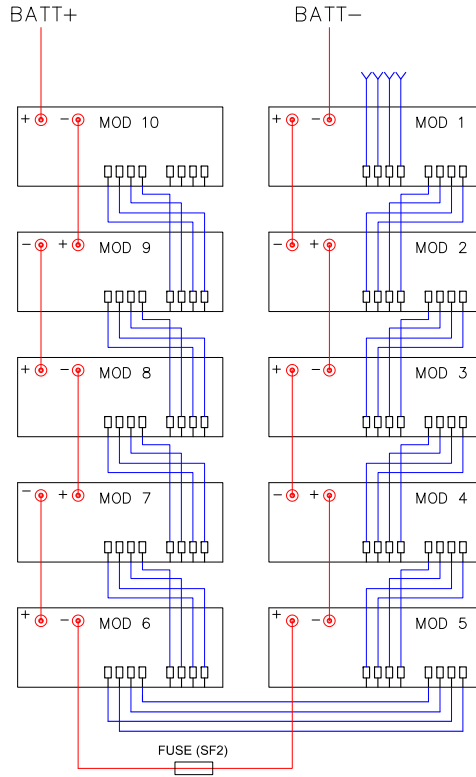
Schneider Electric

TITLE:
Galaxy Lithium-ion Battery cabinet, SYPX UL
DETAIL VIEWS

PROJECT: SUBMITTAL DRAWINGS SHEET 4 OF 9

DWG NO:	LIBSESMGSPXUL		REV:	0
DRAWN:	RANJITHA	08-SEP-22	ENGINEER:	FRED
APPROVED:	Rick ZHANG	08-SEP-22	PROJECT	ANGLE

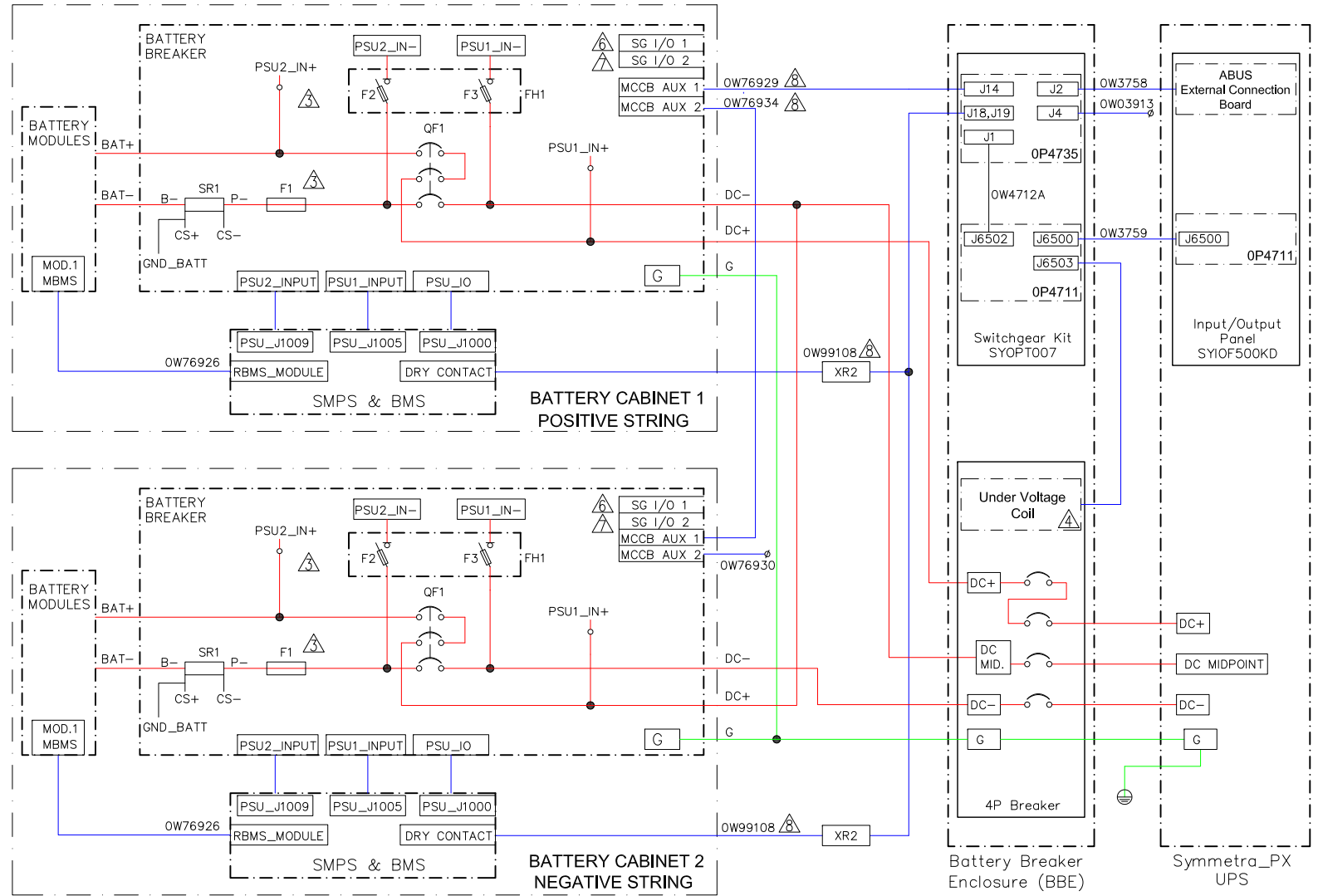
CABLING DIAGRAM - 10 MODULES



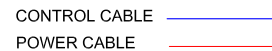
LEGEND:



SYSTEM DIAGRAM



LEGEND:



NOTE:

UPS CONNECTIONS WITH STRING-1 (BATTERY CABINET 1 POSITIVE STRING AND BATTERY CABINET 2 NEGATIVE STRING) SHOWN FOR ILLUSTRATION.

NOTES:

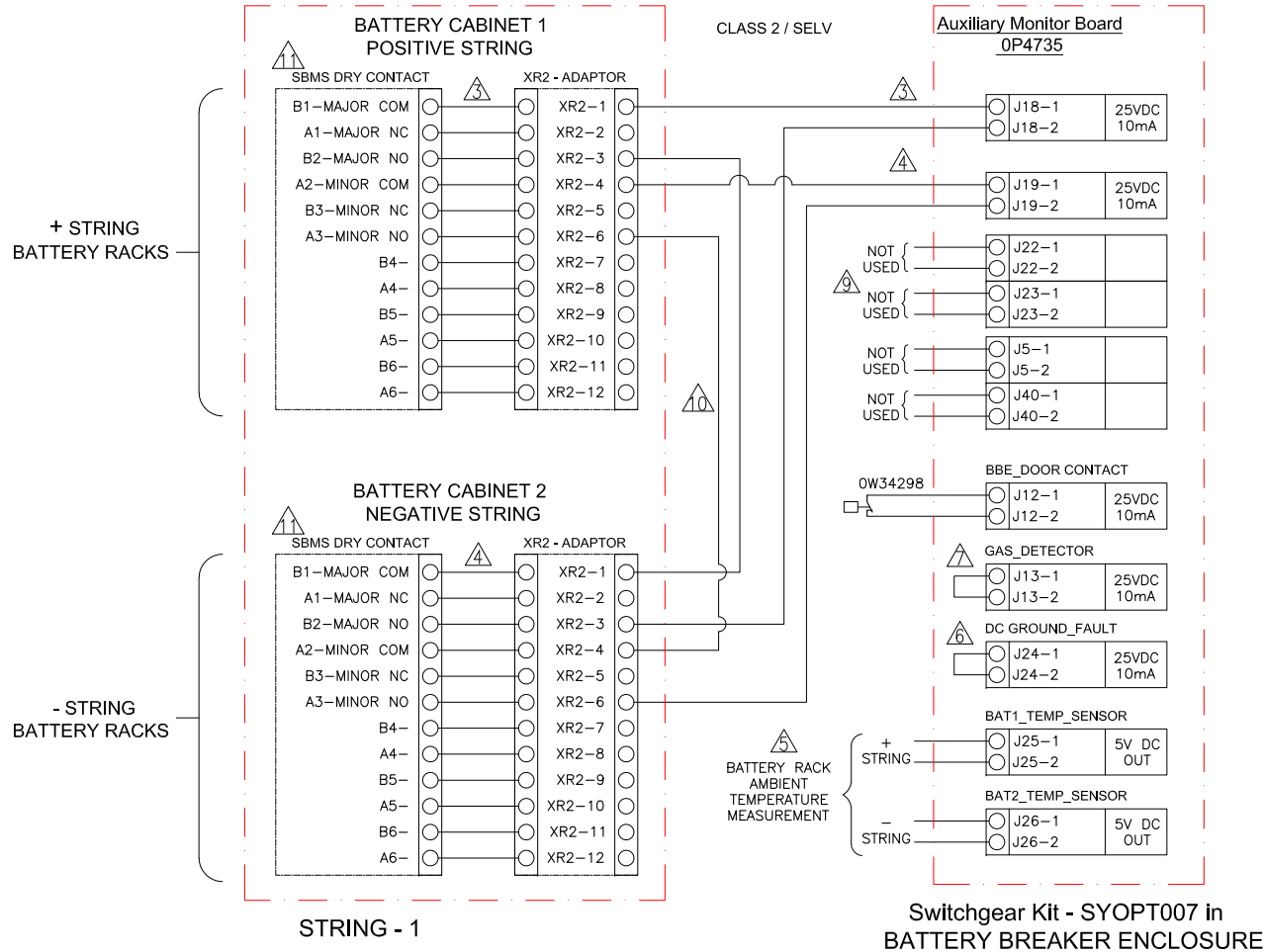
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2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- △ F1 FUSE TYPE: Merson MPN PC33UD69V500A or LITTLEFUSE MPN PSR033DS0500X WITH 500A 600Vdc 100KAIC.
- △ F2 & F3 FUSE TYPE: LITTLEFUSE MPN OSPF003.T OR EQUIVALENT WITH 3A 1000Vdc 20KAIC.
- △ UNDER VOLTAGE COIL OF BREAKER USED IN BBE IS CONTROLLED BY EPO CONNECTION AND TRIP BOARD (ECT) OP4711 OF SYOPT007.
5. 2 SYSTEM BMSs ARE USED AND LOCATED IN STRING-1 (BATTERY CABINET-1 POSITIVE STRING AND BATTERY CABINET-2 NEGATIVE STRING) ONLY. SYSTEM BMS CUSTOMER ID VALUE MUST BE SET AS 0x0.
- △ USE THE PROVIDED **OW99108** TO CONNECT BMS DRY CONTACT PORT AND PX BBE - AUXILIARY MONITOR BOARD OP4735 - J18, J19 PORTS TO MONITOR MAJOR FAULT AND MINOR ALARM SIGNALS INSTEAD OF SGIO 1 PORT. IF THERE IS NEED TO MONITOR PSU STATUS CONTACT SCHNEIDER ELECTRIC PERSONALS FOR CONNECTIONS ON SGIO 1 PORT WHICH CAN BE USED AS DEDICATED DRY CONTACT FOR PSU FAULT SIGNALS.
- △ SGIO 2 PORT WILL NOT BE USED AS UPS TRIP DRY CONTACTS PORT, INSTEAD TRIP SIGNALS ARE DIRECTLY FED TO OP4711 BOARD OF INPUT/OUTPUT PANEL - SYI04500KD OF UPS.
- △ FOR DETAILED CONNECTIONS REFER PAGE 6, 7, AND 8.

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TITLE:	Galaxy Lithium-ion Battery cabinet, SYXP UL CABLING AND SYSTEM DIAGRAM		DWG NO:	LIBSESMGSPXUL	REV:	0
PROJECT: SUBMITTAL DRAWINGS	SHEET 5 OF 9	ENGINEER:	FRED	08-SEP-22	FIRST ANGLE	PROJECTION
		APPROVED:	Rick ZHANG	08-SEP-22		

**INTERFACE DETAILS WHEN 2 BATTERY CABINETS (2 BATTERY RACKS = ONE STRING) BAYED WITH BBE (Symmetra_PX UPS)
 DRY CONTACT - MAJOR AND MINOR ALARM, TEMPERATURE MANAGEMENT**



NOTE:
 1) THIS MAJOR AND MINOR ALARM CONNECTIONS ARE APPLICABLE FOR 1 TO 4 STRINGS (8 CABINETS).
 2) REFER TO PAGE 7 FOR MCCB AUX. CONNECTIONS.

NOTES:

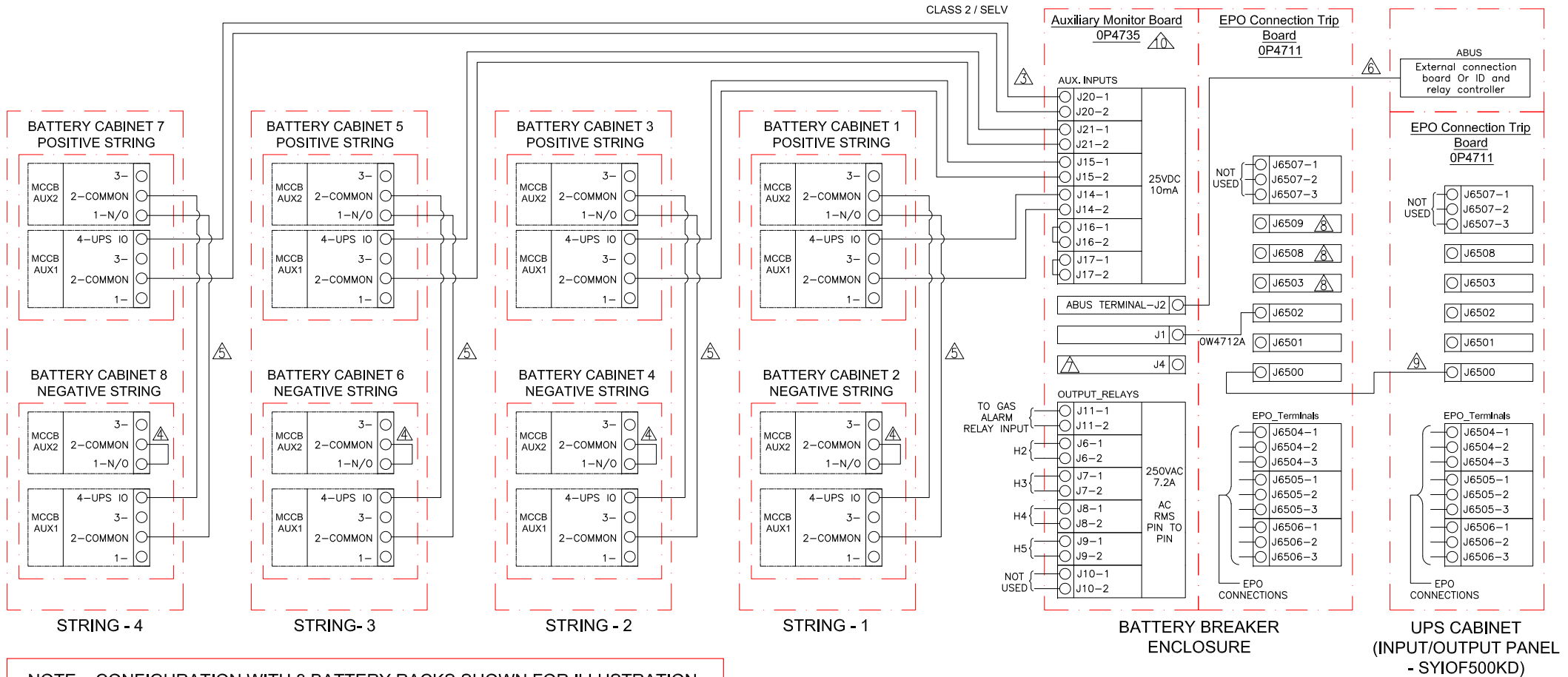
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- REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- USE THE PROVIDED **0W99108** WHICH IS PART OF 0N-87966 FUSE KIT TO CONNECT ALL **MAJOR** SBMS DRY CONTACTS OF BATTERY STRING TO UPS PORT - **J18**.
- USE THE PROVIDED **0W99108** WHICH IS PART OF 0N-87966 FUSE KIT TO CONNECT ALL **MINOR** SBMS DRY CONTACTS OF BATTERY STRING TO UPS PORT - **J19**.
- INSTALL THE BATTERY TEMPERATURE SENSORS IN THE BATTERY BANK AS DESCRIBED IN THE DOCUMENTATION SUPPLIED WITH THE BATTERY TEMPERATURE SENSORS, AND CONNECT CABLES FROM THE BATTERY TEMPERATURE SENSORS TO J25 AND J26.
- CONNECT CABLES FROM THE DC GROUND FAULT DETECTION TO J24. IF NOT USED, JUMP THE INPUTS AS THEY ARE CONFIGURED AS NORMALLY CLOSED (NC).
- CONNECT CABLES FROM THE GAS DETECTOR TO J13. IF NOT USED, JUMP THE INPUTS AS THEY ARE CONFIGURED AS NORMALLY CLOSED (NC).
- 2 SYSTEM BMSs** ARE USED AND LOCATED IN STRING-1 (CABINET-1 AND CABINET-2) ONLY. CABINET-1 POSITIVE STRING HAS SBMS WHICH COMMUNICATES WITH ALL POSITIVE STRING CABINETS OF THE SYSTEM AND CABINET-2 NEGATIVE STRING HAS SBMS WHICH COMMUNICATES WITH ALL NEGATIVE CABINETS OF THE SYSTEM. HENCE THE **MAJOR** FAULT AND **MINOR** ALARM SIGNALS WILL BE COMMUNICATED ONLY FROM CABINET-1 AND CABINET-2.
- USUALLY J22 AND J23 ARE NOT USED, BUT J22 CAN BE USED AS DC SWITCH 1 STATUS, J23 CAN BE USED AS DC SWITCH 2 STATUS MONITORING, IF ANY BREAKER'S AUXILIARY CONTACT IS AVAILABLE IN BATTERY BREAKER CABINET (BBC), WHICH CAN CONNECT TO ANY ONE OF J22, J23 FOR BBC STATUS MONITORING.
- THIS WIRING WILL BE DONE ON-SITE BY INSTALLATION TEAM.
- CABLE **0W13441** BETWEEN SBMS DRY CONTACT PORT AND SMPS IO PORT MUST BE REMOVED ON ALL CABINETS INCLUDING CABINET 1 AND CABINET 2.

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TITLE:	DWG NO:	REV:
Galaxy Lithium-ion Battery cabinet, SYPX UL INTERFACE DETAILS-1	LIBSESMGYPXUL	0
PROJECT: SUBMITTAL DRAWINGS SHEET 6 OF 9	DRAWN: RANJITHA	08-SEP-22
	ENGINEER: FRED	08-SEP-22
	APPROVED: Rick ZHANG	08-SEP-22
		ANGLE PROJECTION N.A.

**INTERFACE DETAILS WHEN UP TO 8 BATTERY CABINETS (2 BATTERY RACKS = ONE STRING) BAYED WITH Symmetra_™ PX UPS VIA BBE
CIRCUIT BREAKER AUXILIARY CONTACT MANAGEMENT**



NOTE: CONFIGURATION WITH 8 BATTERY RACKS SHOWN FOR ILLUSTRATION. CONNECTIONS ARE TYPICAL FOR 1 TO 4 STRINGS CONFIGURATION.

NOTES:

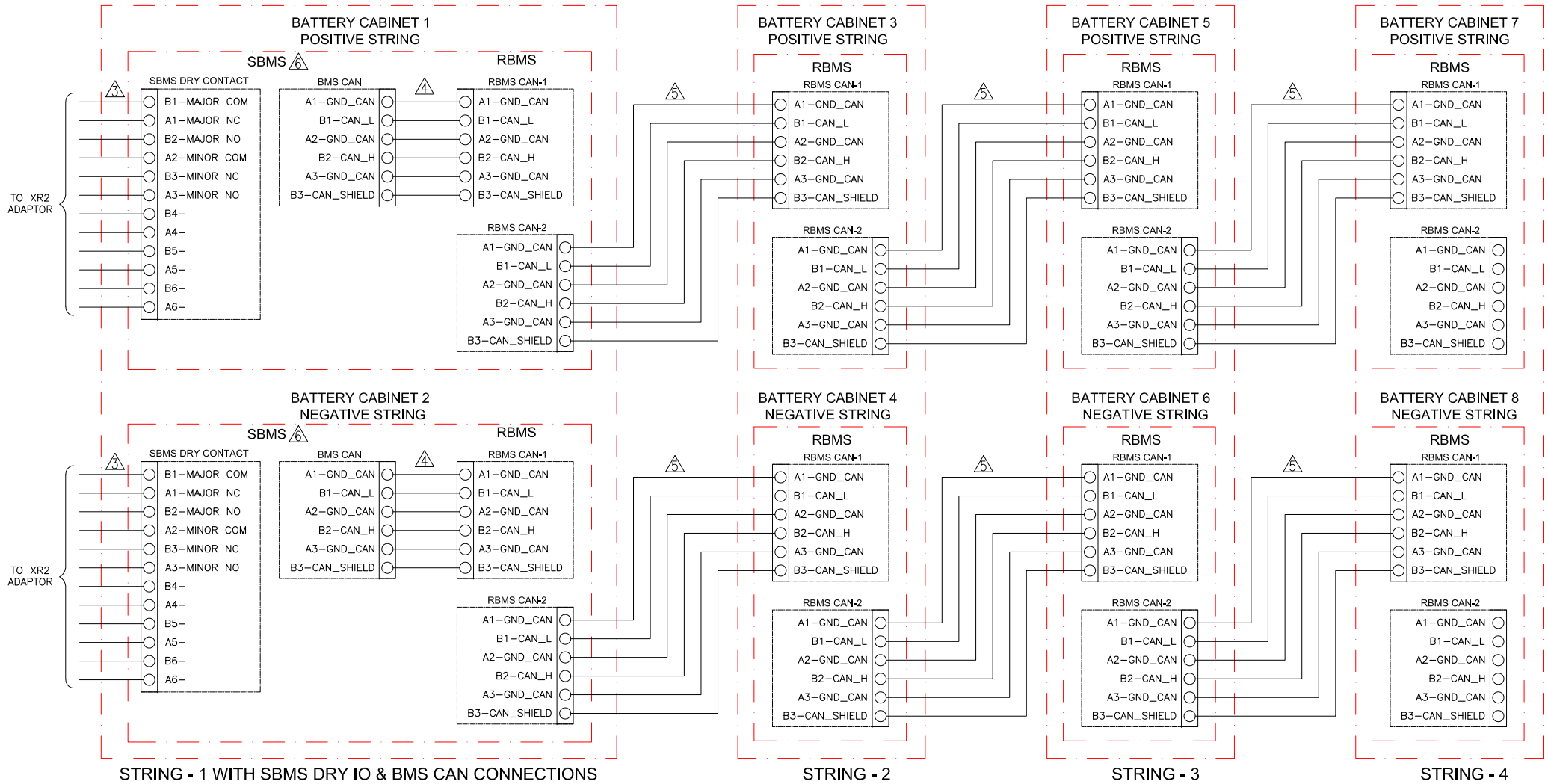
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2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. USE THE PROVIDED **0W76929** TO CONNECT EACH STRING POSITIVE CABINET **MCCB AUX1** TO UPS PORTS J14,J15,J20 AND J21. REFER TO INSTALLATION MANUAL FOR CABLE LENGTH EXTENSION IF REQUIRED.
4. USE THE PROVIDED **0W76930** TO LOOP EACH STRING NEGATIVE CABINET **MCCB AUX2**.
5. USE THE PROVIDED **0W76934** TO CONNECT **MCCB AUX** SIGNALS IN SERIES IN A STRING.
6. CONNECT THE ABUS CABLE **0W3758** FROM THE ABUS TERMINAL IN THE I/O CABINET TO THE TOP ABUS TERMINAL J2 ON THE ANCILLARY MONITOR BOARD. AND IS PART OF SKU-SYBBE250K500D/SYBBE500K500D.
7. VERIFY THAT THE TERMINATOR **0W03913** IS INSTALLED IN THE J4 TERMINAL ON THE ANCILLARY MONITOR BOARD.
8. CONNECT CABLE FOR Q2 TRIPPING TO 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 PARTS NEEDED TO CONNECT TO J6503 PIN2 AND PIN3 ARE: - TYCO 1-48700-0, M&L 3-POSITION PLUG HOUSING AND TYCO 350218-3 M&L PIN, AWG 20-14 (NOT SUPPLIED).
9. STANDARD CABLE LENGTH OF **0W3759A** IS 50 METERS AND IS PART OF SKU-SYBBE250K500D/SYBBE500K500D.
10. REST OF THE PIN DETAILS OF OP4735 ARE COVERED IN PAGE 6/7/8.

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TITLE: Galaxy Lithium-ion Battery cabinet, SYPX UL INTERFACE DETAILS-2	DWG NO: LIBSESMGSPXUL	REV: 0
PROJECT: SUBMITTAL DRAWINGS SHEET 7 OF 9	DRAWN: RANJITHA	08-SEP-22
	ENGINEER: FRED	08-SEP-22
	APPROVED: Rick ZHANG	08-SEP-22
		ANGLE PROJECTION N.A.

BMU WIRING DETAILS - UP TO 8 BATTERY CABINETS (2 BATTERY RACKS = ONE STRING)



NOTE: CONFIGURATION WITH 8 BATTERY RACKS SHOWN FOR ILLUSTRATION.

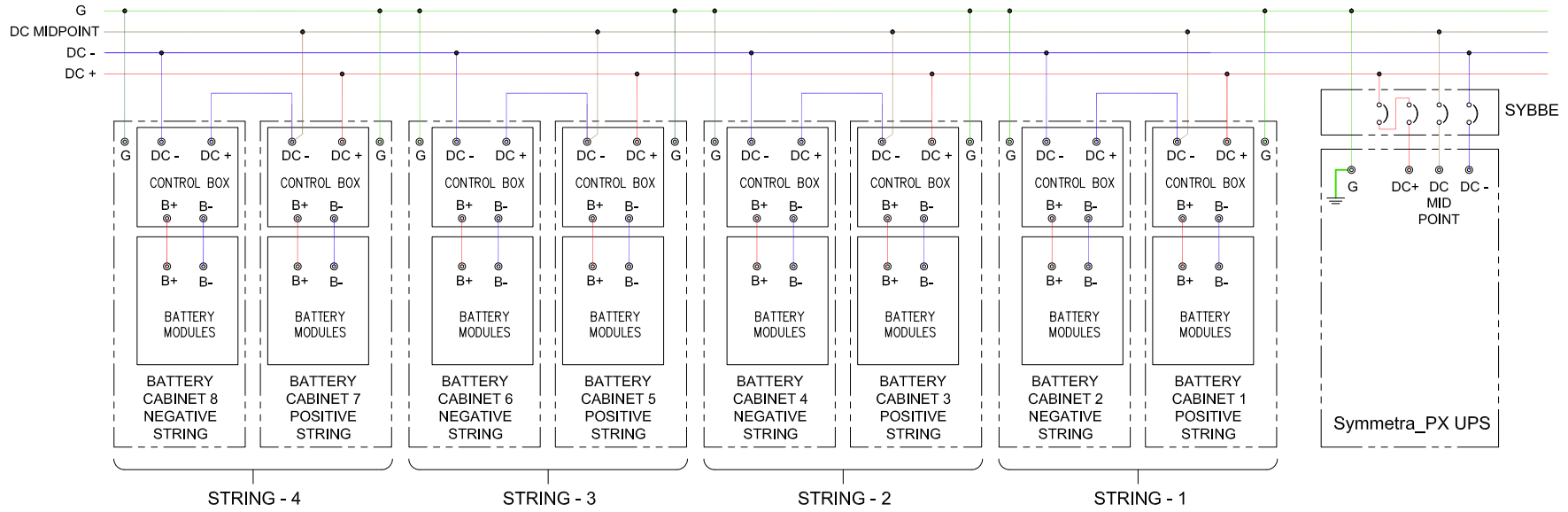
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 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 3. FOR SBMS DRY CONTACT CONNECTION DETAILS REFER TO PAGE 6.
 4. **BMS CAN** IS CONNECTED IN STRING-1 (BATTERY CABINET-1 POSITIVE STRING AND BATTERY CABINET-2 NEGATIVE STRING) ONLY. USE THE PROVIDED **0W76935** TO CONNECT BMS CAN AND RBMS CAN-1.
 5. USE THE PROVIDED **0W76928** TO CONNECT **RBMS CAN-2** TO NEXT CABINET **RBMS CAN-1** OF THE POSITIVE STRING AS WELL AS NEGATIVE STRING SEPARATELY. SLIDE THE **CAN** BUS LOOP TERMINAL RESISTOR SWITCH TO **ON** POSITION IN THE LAST ONE STRING ONLY.
 6. **2 SYSTEM BMSs** ARE USED AND LOCATED IN STRING-1 (CABINET-1 POSITIVE STRING AND CABINET-2 NEGATIVE STRING) ONLY. CABINET-1 POSITIVE STRING HAS SBMS WHICH COMMUNICATES WITH ALL POSITIVE STRING CABINETS OF THE SYSTEM AND CABINET-2 NEGATIVE STRING HAS SBMS WHICH COMMUNICATES WITH ALL NEGATIVE CABINETS OF THE SYSTEM.
 7. CABLE **0W13441** BETWEEN SBMS DRY CONTACT PORT AND SBMS IO PORT MUST BE REMOVED ON ALL CABINETS INCLUDING CABINET 1 AND CABINET 2.

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TITLE: Galaxy Lithium-ion Battery cabinet, SYPX UL INTERFACE DETAILS-SBMS TO RBMS	DWG NO: LIBSESMGSPXUL	REV: 0
PROJECT: SUBMITTAL DRAWINGS SHEET 8 OF 9	DRAWN: RANJITHA	08-SEP-22
	ENGINEER: FRED	08-SEP-22
	APPROVED: Rick ZHANG	08-SEP-22
		ANGLE PROJECTION N.A.

SCHEMATIC DIAGRAM - DC POWER 500kW FOR ILLUSTRATION WHEN 8 BATTERY RACKS CONNECTED TO SYMMETRA_PX UPS VIA BATTERY BREAKER BOX



1. SYBBE FRAME IS MANDATORY REGARDLESS OF THE UPS POWER RATING
2. SYBBE (BATTERY BREAKER ENCLOSURE) SKU Ref: SYBBE250K500D - FOR PX RATED 250kW AND SYBBE500K500D - FOR PX RATED 500kW

Symmetra_PX UPS	Rating (kVA)	Minimum Number of LIB String required to connect and allowable Load on them*			Max. LIB Strings can be connected	
		Battery Strings	DC Load (kW)	DC Load per Cabinet (kW)	Directly	Via BBE
480V, 60Hz	125	1	130	65	-	4**
	250	1	259	129.5	-	
	300	2	311	77.75	-	
	400	2	415	103.75	-	
	500	2	518	129.5	-	

* Minimum two LIB Cabinets (10 modules each) in series are required to build up one standard Battery string.

** Battery rack's short circuit rating (RMS) is 2.9kA per rack, peak value is 9.0 kA per rack and Symmetra_PX UPS short circuit withstand rating is 40kA. Hence, the Maximum number of Battery Strings that can be connected with Symmetra_PX UPS is 4. Contact Schneider Electric application Engineering team for configuration of more than 4 strings.

Electrical DATA for ONE STRING	
Battery Cabinet SKU Number	LIBSESMG10UL
Number of Battery Cabinets per String	2
Number of Battery Modules per Cabinet	10
Nominal Energy (KWh)	40.8
Nominal Voltage (VDC)	± 304
Nominal Capacity (Ah)	67
Charge Power	10% of UPS nominal power at 100% load
Floating Charge Voltage (VDC)	± 336 (4.2V/Cell)
Max Continuous Discharge Power (kW)	216
Maximum partial depth of discharge power (kW)	270
Shutdown level (VDC)	± 248V (3.1V/Cell)
Short Circuit Rating RMS value (KA) - I _{sc} , RMS (I _{sc} MAX)	2.9

	Recommended Cable Size	Terminal Bolt Size	Cable Lug Type	Gland Size
DC-, DC+, Ground Cables	350 kcmil / 185 mmsq	M10	LCC350-12-X	M40

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 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.

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TITLE:	Galaxy Lithium-ion Battery cabinet, SYPX UL SCHEMATIC DIAGRAM		DWG NO:	LIBSESMGSYPXUL	REV:	0
DRAWN:	RANJITHA	08-SEP-22	ENGINEER:	FRED	08-SEP-22	ANGLE PROJECTION
PROJECT:	SUBMITTAL DRAWINGS	SHEET 9 OF 9	APPROVED:	Rick ZHANG	08-SEP-22	N.A