

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. A MINIMUM OF 39.37 Inches [1000mm] FRONT, 7.87 Inches [200mm] TOP CLEARANCE REQUIRED. 3.94 Inches [100mm] REAR CLEARANCE IS REQUIRED ONLY FOR SEISMIC ANCHORING INSTALLATION. CLEARANCE DIMENSIONS ARE FOR AIRFLOW AND SERVICE ACCESS ONLY.
- △ 5. ALL DIMENSIONS EXCLUDES SCREW PROJECTION OUTSIDE THE ENCLOSURE.
- 6. CABLE ENTRY IS FROM TOP OF THE UNIT.
- △ 7. REFER TO TABLE FOR APPLICABLE SKUs & WEIGHT DETAILS. WEIGHT OF ONE BATTERY MODULE IS 36.38 lb [16.5 kg].
- 8. COLOR: RAL9003, GLOSS LEVEL 85%.
- 9. PROTECTION CLASS: IP20.
- 10. OPERATING TEMPERATURE: 64 - 82°F [18 - 28°C]. TO OPTIMIZE THE LIFE OF BATTERY, IT IS RECOMMENDED TO MAINTAIN 77°F [25°C].
- △ 11. THIS INFORMATION PROVIDES APPROXIMATE CENTER OF GRAVITY CALCULATION.
- 12. BATTERY RACKS CAN BE CONNECTED SIDE BY SIDE AND BACK TO BACK. REFER TO INSTALLATION MANUAL FOR DETAILS.



SKU NUMBER	WEIGHT IN lb [kg]		COG IN Inch [mm]					
	Empty Rack	Fully loaded	Empty Rack			Fully loaded Rack		
			X-diection	Y-diection	z-diection	X-diection	Y-diection	Z-diection
LIBSESMG13UL	465 [211]	915 [415]	12.66 [321.5]	40.61 [1031.5]	12.25 [311.2]	12.51 [317.8]	41.79 [1061.4]	11.12 [282.4]
LIBSESMG16UL			12.66 [321.5]	40.61 [1031.5]	12.25 [311.2]	12.76 [324]	39.00 [990.7]	11.02 [279.9]

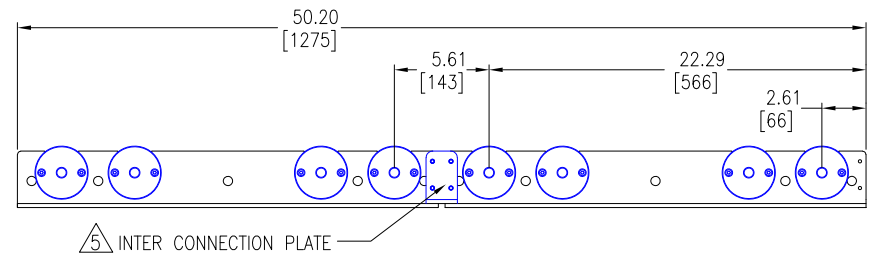
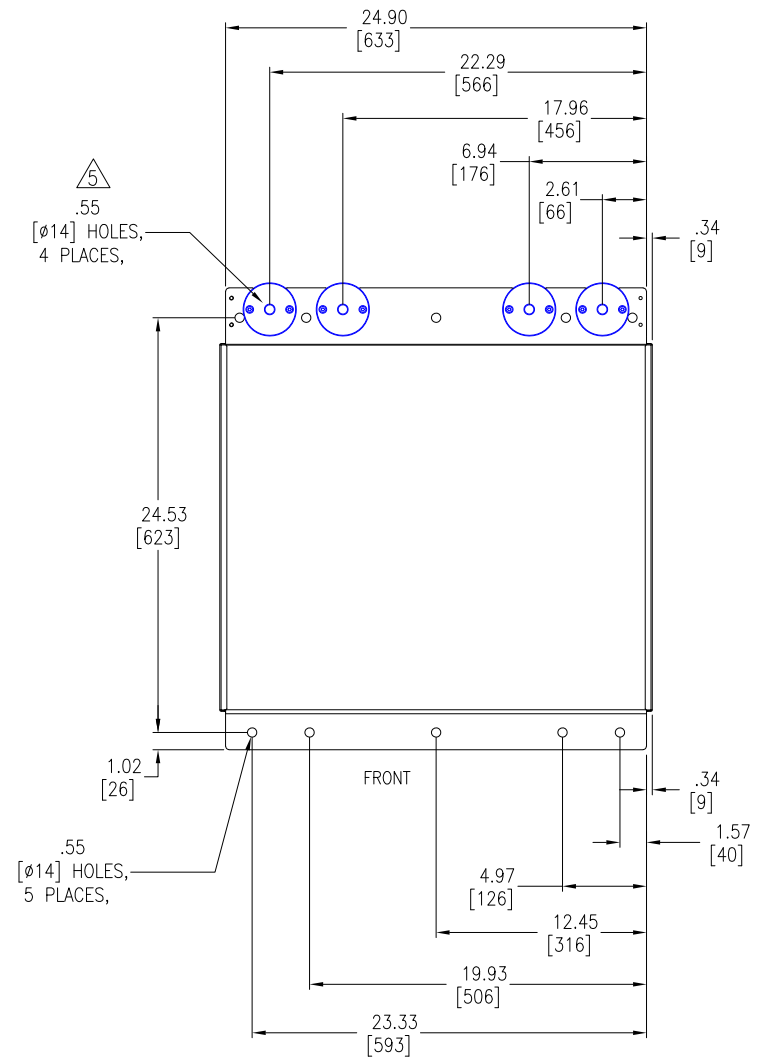
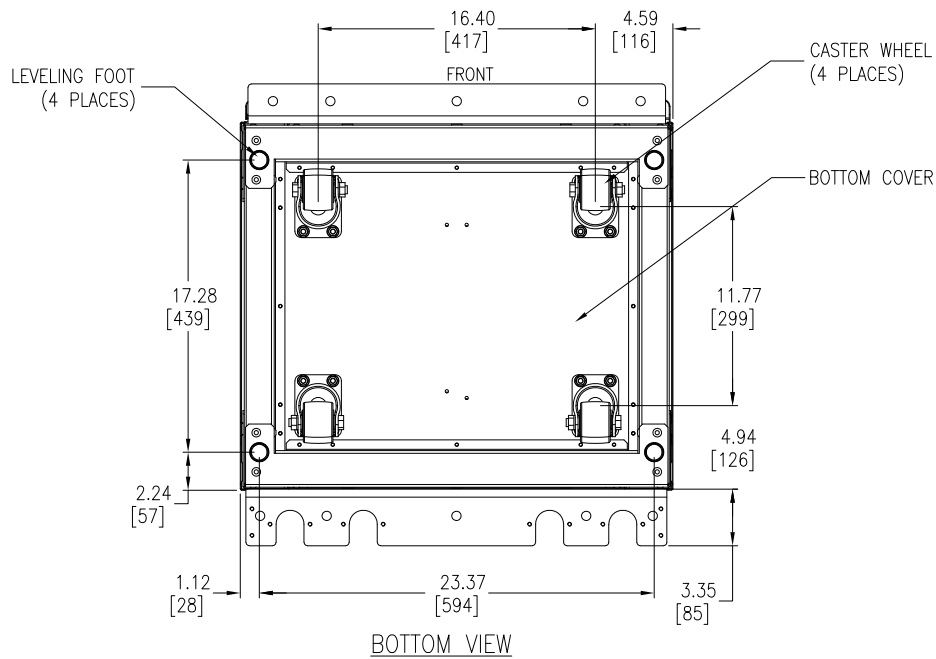
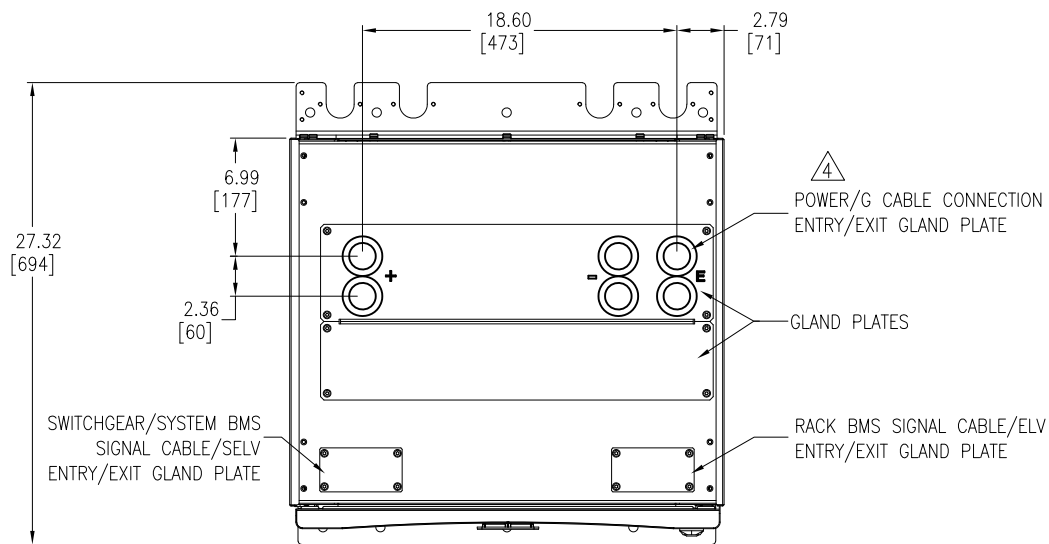
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TITLE:
Galaxy Lithium-ion Battery cabinet, GVS UL GENERAL ARRANGEMENT

PROJECT: SUBMITTAL DRAWING **SHEET** 1 OF 11

DWG NO: LIBSESMGCVSUL	REV. 0
DRAWN BY: JAYAPRAKASH	27-MAY-21
ENGINEER: Fred XIA/PAUL J	31-MAY-21
APPROVED BY: Fred XIA/JEFFREY P	31-MAY-21
	THIRD ANGLE PROJECTION



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 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
 4. 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. REMOVE THESE GLAND PLATES FOR TOP HAT CABLE ENTRY INSTALLATION.
 5. USE ACCESSORY KIT (0M-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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Schneider Electric

TITLE:
Galaxy Lithium-ion Battery cabinet, GVS UL
TOP/BOTTOM VIEW & ANCHORING DETAILS

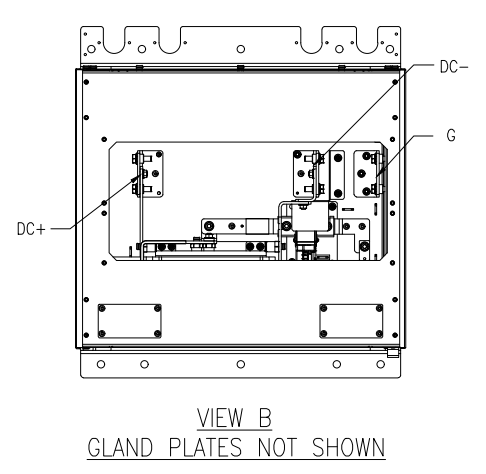
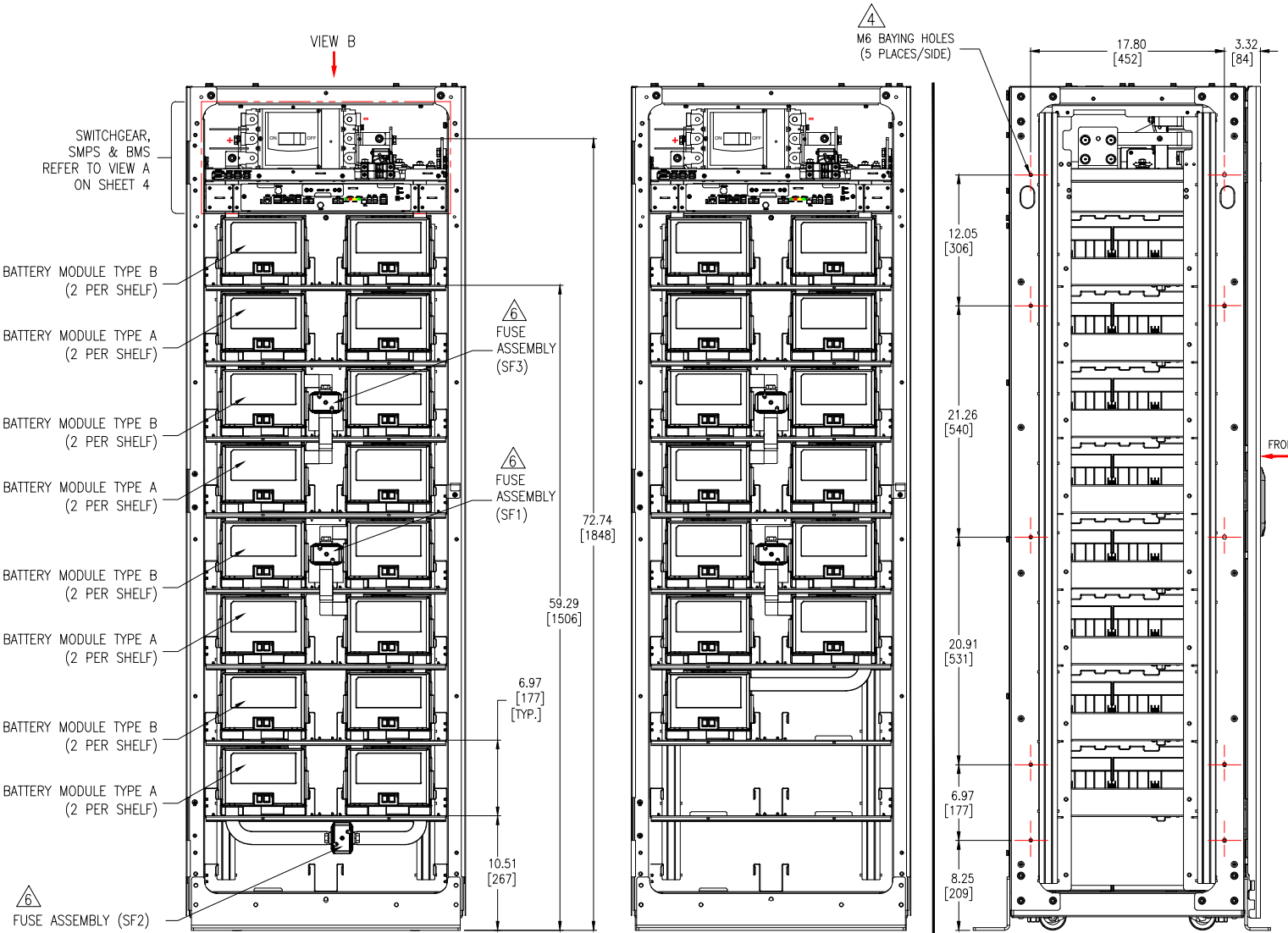
PROJECT: SUBMITTAL DRAWING SHEET 2 OF 11

DWG NO: LIBSESMGCVSUL

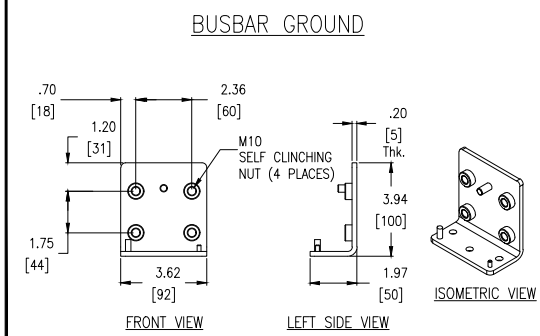
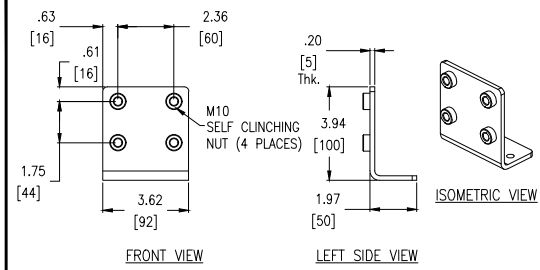
DRAWN BY: JAYAPRAKASH 27-MAY-21
ENGINEER: Fred XIA/PAUL J 31-MAY-21

APPROVED BY: Fred XIA/JEFFREY P 31-MAY-21

REV. 0
THIRD ANGLE
PROJECTION



BUSBAR DETAILS



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

- NOTES:**
- INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
 - REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 - ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
 - USE M6x16 SCREWS FOR MOUNTING MULTIPLE RACKS SIDE BY SIDE. REMOVE SIDE PANELS OF ADJACENT BATTERY RACKS WHILE BAYING.
 - THE SYSTEM BMS IS LOCATED IN BATTERY RACK 1 ONLY.
 - FUSE TYPE: Merson MPN PC33UD69V500TF OR LITTLEFUSE MPN PSR033FL0500Z WITH 500A 600Vdc 100KAIC.
 - SOME STRUCTURAL DETAILS HAVE BEEN OMITTED FOR THE PURPOSE OF CLARITY.

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TITLE:
Galaxy Lithium-ion Battery cabinet, GVS UL
INTERNAL VIEWS

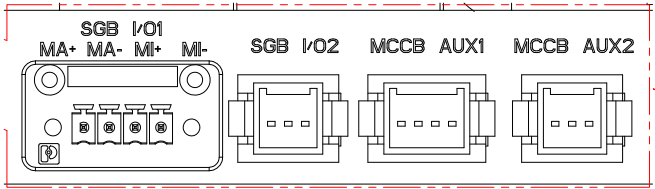
PROJECT: SUBMITTAL DRAWING | **SHEET:** 3 OF 11

DWG NO: LIBSESMGGVSUL	REV: 1
DRAWN BY: RANJITHA	22-MAY-23
ENGINEER: SHERRY L E	24-MAY-23
APPROVED BY: RICK ZHANG	24-MAY-23
THIRD ANGLE PROJECTION	

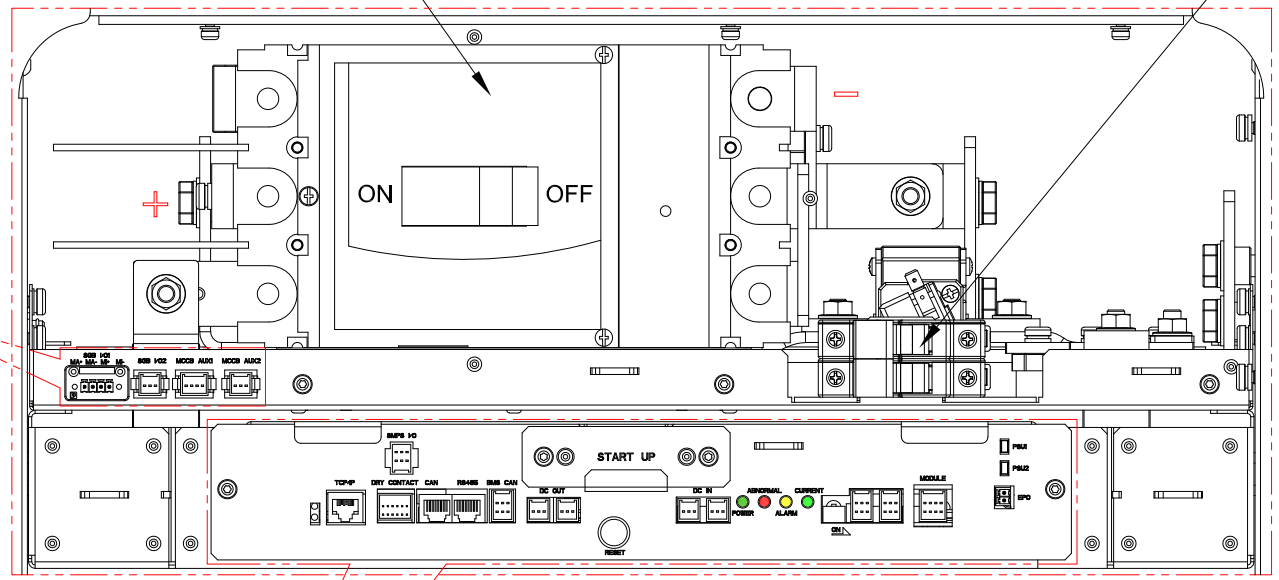
MCCB SETTINGS:
 $I_m = 1500A$
 APPLY TO ALL CONFIGURATIONS.

MCCB ($U_i=750V$; $I_n=600A$ dc)

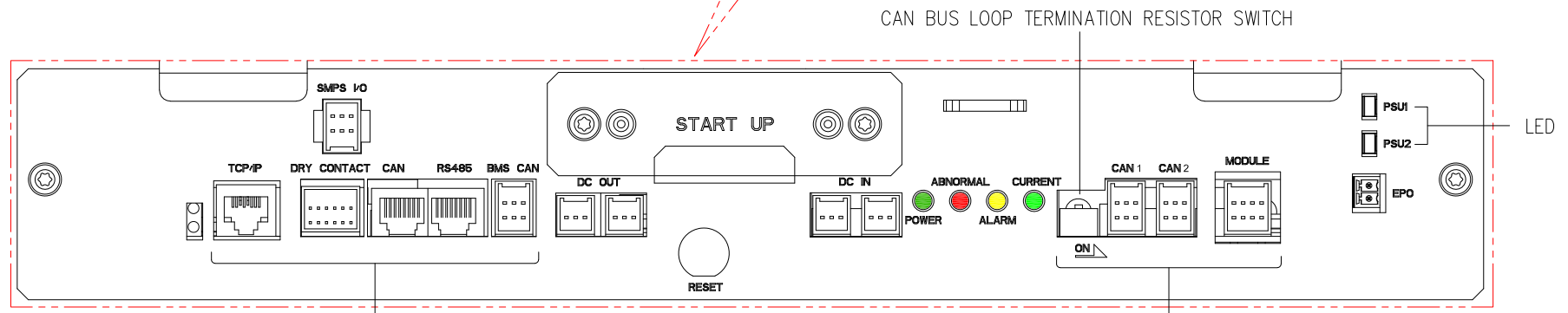
3 SMPS FUSES



SWITCHGEAR PORTS



VIEW A (ENLARGED)
 SWITCHGEAR SMPS AND BMS



SYSTEM BMS PORTS

SMPS AND BMS

RACK BMS PORTS

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

- 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. FUSE TYPE: LITTLEFUSE MPN OSPF003.T OR EQUIVALENT WITH 3A 1000Vdc 20KAIC.
 4. THE SYSTEM BMS IS LOCATED IN BATTERY RACK 1 ONLY.

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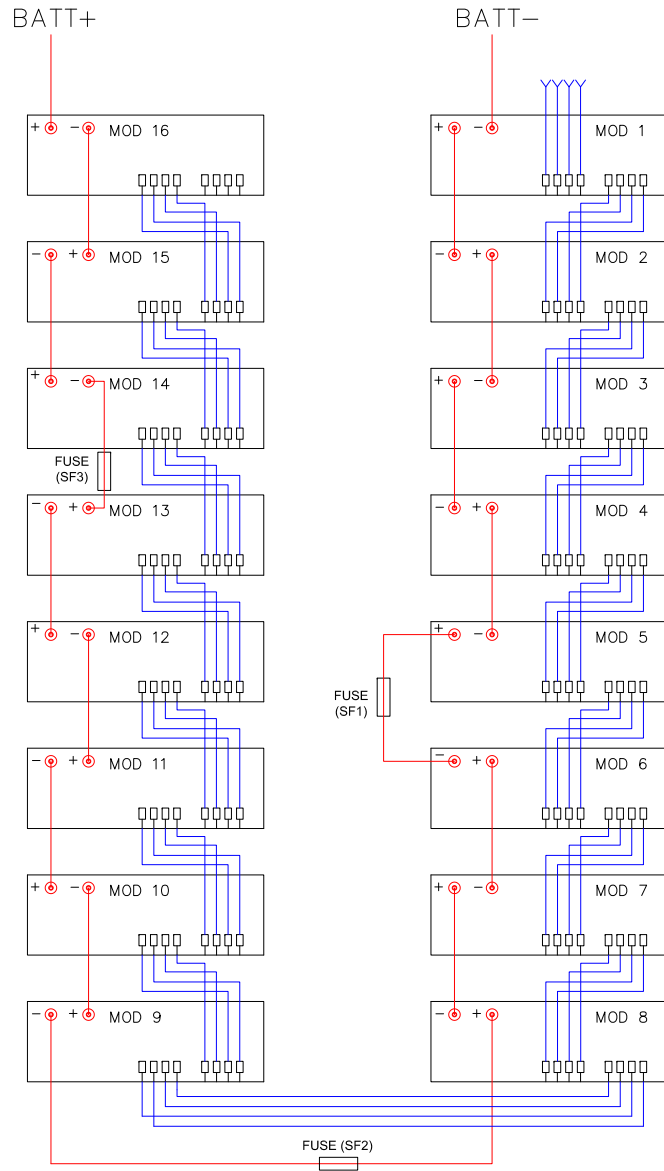


TITLE:
 Galaxy Lithium-ion Battery cabinet, GVS UL
 INTERNAL VIEWS

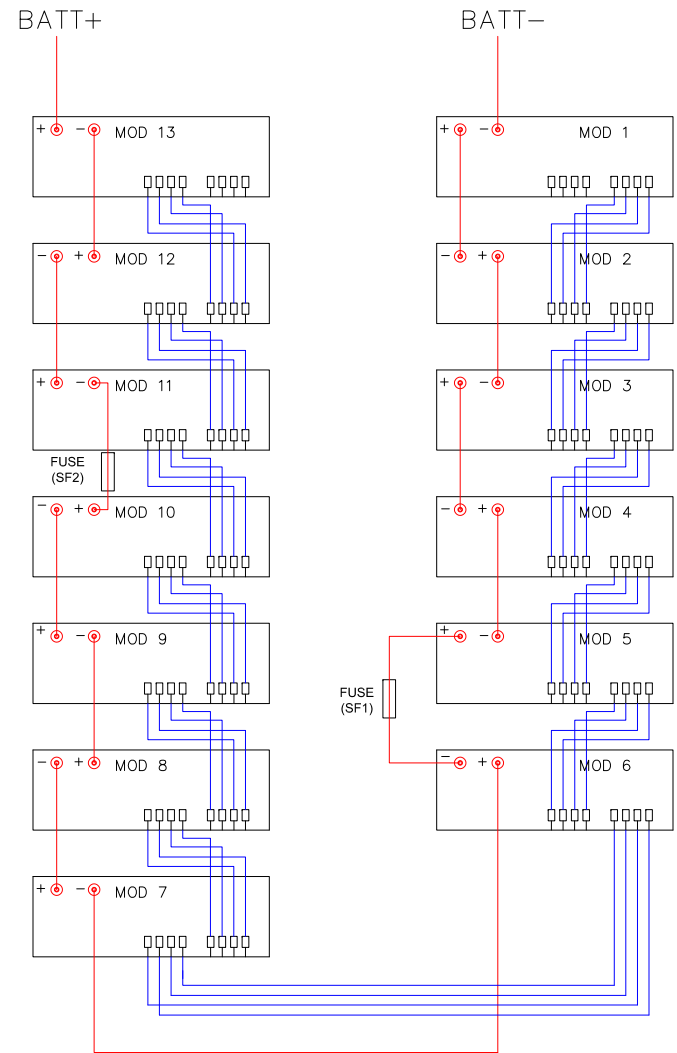
PROJECT: SUBMITTAL DRAWING SHEET 4 OF 11

DWG NO:	LIBSESMGCVSUL	REV.	0
DRAWN BY:	JAYAPRAKASH	27-MAY-21	ANGLE
ENGINEER:	Fred XIA/PAUL J	31-MAY-21	PROJECTION
APPROVED BY:	Fred XIA/JEFFREY P	31-MAY-21	N.A.

16 MODULES/STRING



13 MODULES/STRING



LEGEND:

CONTROL CABLE —
 BUS BAR —

NOTES:

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TITLE:

Galaxy Lithium-ion Battery cabinet, GVS UL CABLING DIAGRAM

PROJECT: SUBMITTAL DRAWING SHEET 5 OF 11

DWG NO: LIBSESMGCVSUL

DRAWN BY: JAYAPRAKASH 27-MAY-21

ENGINEER: Fred XIA/PAUL J 31-MAY-21

APPROVED BY: Fred XIA/JEFFREY P 31-MAY-21

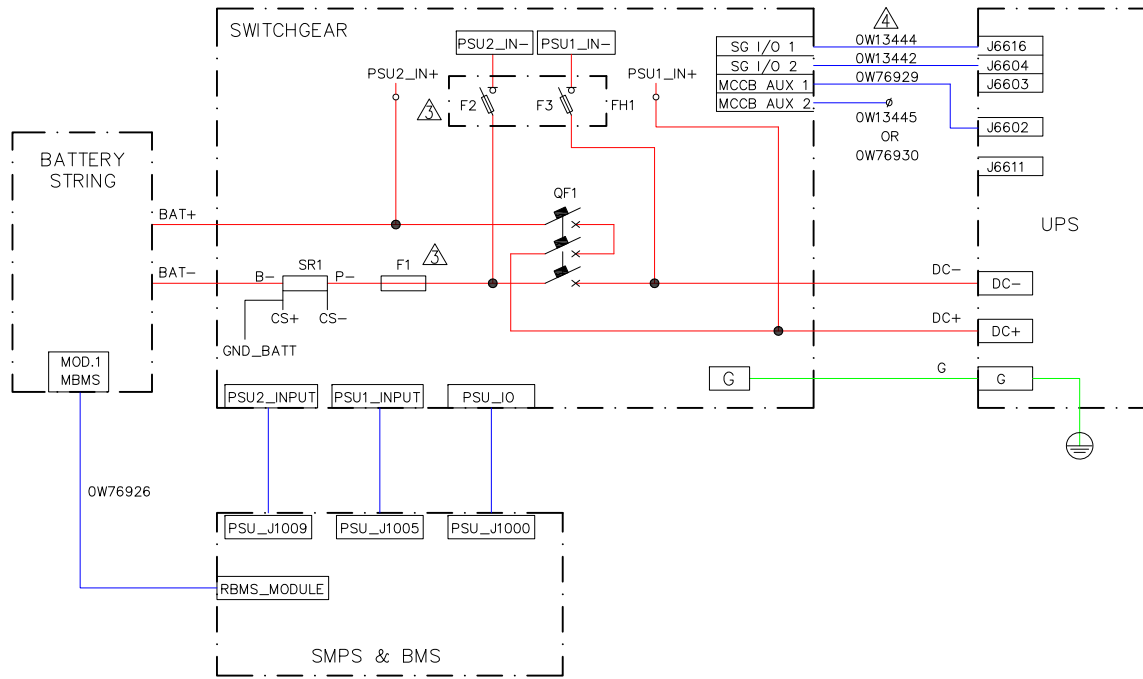
REV. 0

ANGLE

PROJECTION

N.A.

SYSTEM DIAGRAM



LEGEND:
 CONTROL CABLE ———— (Blue line)
 POWER CABLE ———— (Red line)

NOTES:

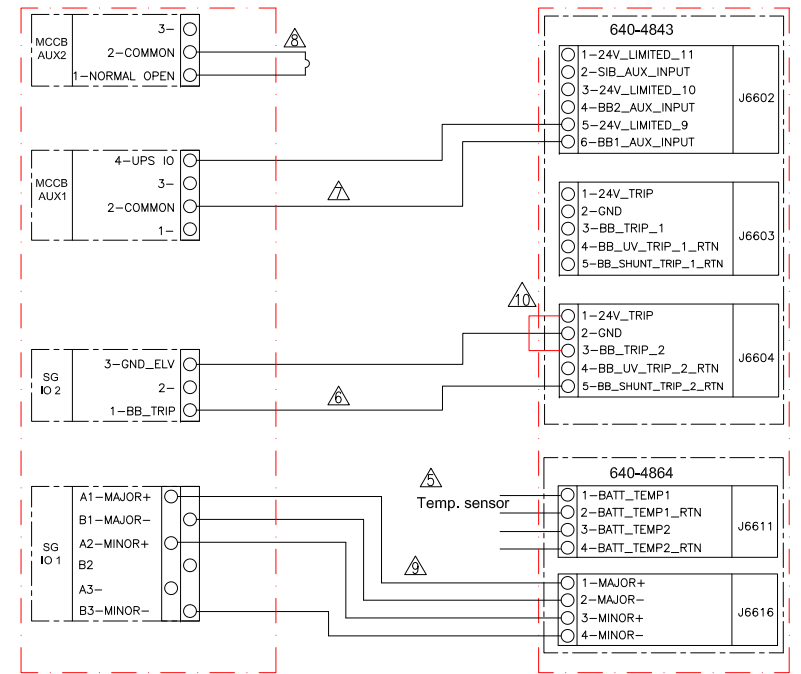
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- △ 3. F1 FUSE TYPE: Merson MPN PC33UD69V500A or LITTLEFUSE MPN PSR033DS0500X WITH 500A 600Vdc 100KAIC.
 F2 & F3 FUSE TYPE: LITTLEFUSE MPN OSPF003.T OR EQUIVALENT WITH 3A 1000Vdc 20KAIC.
- △ 4. COMMUNICATION CABLES OF 5 Meter LENGTH ARE PROVIDED WITH THE BATTERY RACK.
 FOR REQUIREMENT OF ANY ADDITIONAL LENGTH OF CABLES,
 OPTIONAL COMMUNICATION CABLE KIT LIBSEOPT001 WITH 25 Meter
 CABLE LENGTH IS AVAILABLE FOR PROCUREMENT.
- △ 5. INSTALL THE TEMPERATURE SENSOR 0M-1160 PROVIDED WITH THE UPS IN THE BATTERY ROOM.
- △ 6. USE THE PROVIDED OW13442 TO CONNECT UPS BB_TRIP CONTACT.
- △ 7. USE THE PROVIDED OW76929 TO CONNECT MCCB AUX 1 TO UPS.
- △ 8. USE THE PROVIDED OW76930 TO CONNECT MCCB AUX 2 CONTACT FOR
 LAST RACK IN A BANK.
- △ 9. USE THE PROVIDED OW13444 TO CONNECT MAJOR AND
 MINOR FAULT CONTACTS.
- △ 10. SHORT PIN 1 AND 3 IN J6604.
11. THE SYSTEM BMS IS LOCATED IN BATTERY RACK 1 ONLY.

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TITLE: Galaxy Lithium-ion Battery cabinet, GVS UL SYSTEM DIAGRAM & INTERFACE DETAILS-1 RACK		DWG NO: LIBSESMGCVSUL	REV. 0
PROJECT: SUBMITTAL DRAWING	SHEET: 6 OF 11	DRAWN BY: JAYAPRAKASH	27-MAY-21
		ENGINEER: Fred XIA/PAUL J	31-MAY-21
		APPROVED BY: Fred XIA/JEFFREY P	31-MAY-21
			ANGLE PROJECTION
			N.A.

INTERFACE DETAILS FOR GALAXY VS WHEN ONE BATTERY RACK BAYED WITH UPS



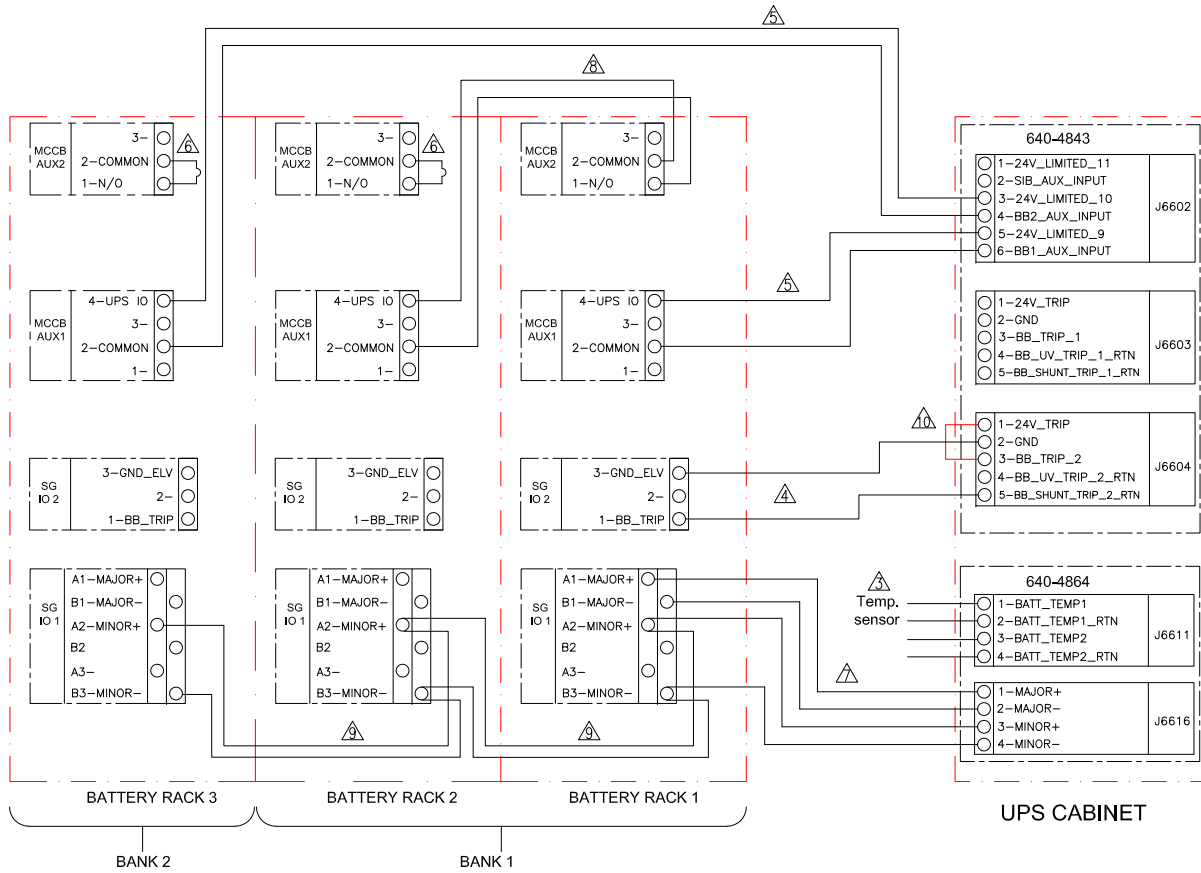
BATTERY RACK

UPS CABINET

Type of installation	Maximum number of Racks	Recommended Cable Size
Conduit dual mains	2	300kcmil/1
Conduit single mains	3	
Ladder tray	3	
Combination of conduit in UPS for DC and conduit in MBC for AC	3	

For 4 Racks and above, a fuse is required. Li-ion Battery Rack's short circuit RMS value is 2.9kA per Rack and GVS limit is 10kA. The fuse protection shall cover the UPS short circuit limit.

INTERFACE DETAILS FOR GALAXY VS WHEN THREE BATTERY RACKS CONNECTED TO UPS



CONFIGURATION WITH 3 BATTERY RACKS SHOWN FOR ILLUSTRATION

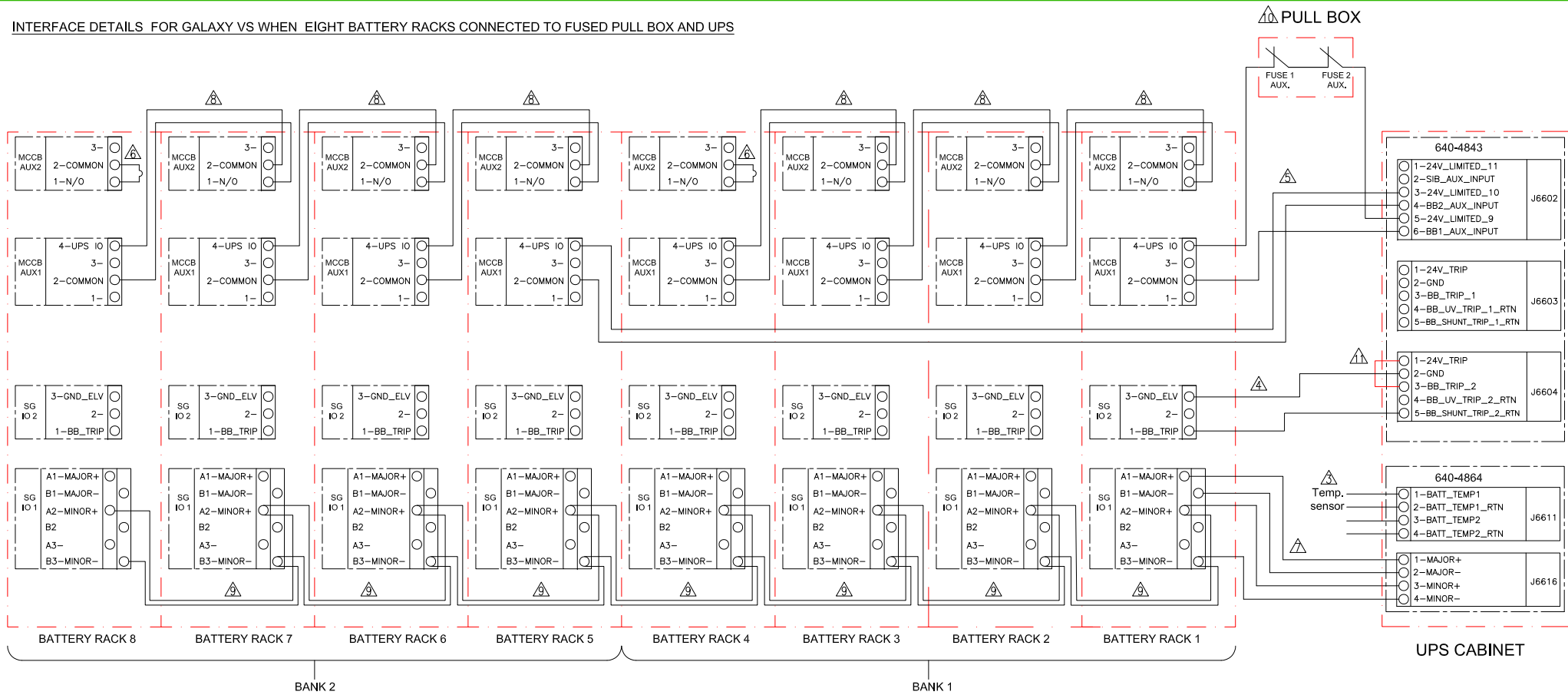
- NOTES:**
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 - △ 3. INSTALL THE TEMPERATURE SENSOR OM-1160 PROVIDED WITH THE UPS IN THE BATTERY ROOM.
 - △ 4. USE THE PROVIDED 0W13442 TO CONNECT UPS BB_TRIP CONTACT.
 - △ 5. USE THE PROVIDED 0W76929 TO CONNECT MCCB AUX 1 (THE FIRST ONE RACK OF A BANK) TO UPS.
 - △ 6. USE THE PROVIDED 0W76930 TO CONNECT MCCB AUX 2 CONTACT FOR LAST RACK IN A BANK.
 - △ 7. USE THE PROVIDED 0W13444 TO CONNECT MAJOR AND MINOR FAULT CONTACTS.
 - △ 8. USE THE PROVIDED 0W76934 TO CONNECT MCCB AUX SIGNALS IN SERIES.
 - △ 9. USE THE PROVIDED 0W76972 TO CONNECT MINOR FAULT ALARM CONTACTS.
 - △ 10. SHORT PIN 1 AND 3 IN J6604.
 11. THE SYSTEM BMS IS LOCATED IN BATTERY RACK 1 ONLY.

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TITLE:		DWG NO:	REV.
Galaxy Lithium-ion Battery cabinet, GVS UL INTERFACE DETAILS-3 RACKS		LIBSESMGCVSUL	0
PROJECT: SUBMITTAL DRAWING	SHEET 7 OF 11	DRAWN BY: JAYAPRAKASH	27-MAY-21
		ENGINEER: Fred XIA/PAUL J	31-MAY-21
		APPROVED BY: Fred XIA/JEFFREY P	31-MAY-21
			ANGLE PROJECTION
			N.A.

INTERFACE DETAILS FOR GALAXY VS WHEN EIGHT BATTERY RACKS CONNECTED TO FUSED PULL BOX AND UPS



CONFIGURATION WITH 8 BATTERY RACKS SHOWN FOR ILLUSTRATION

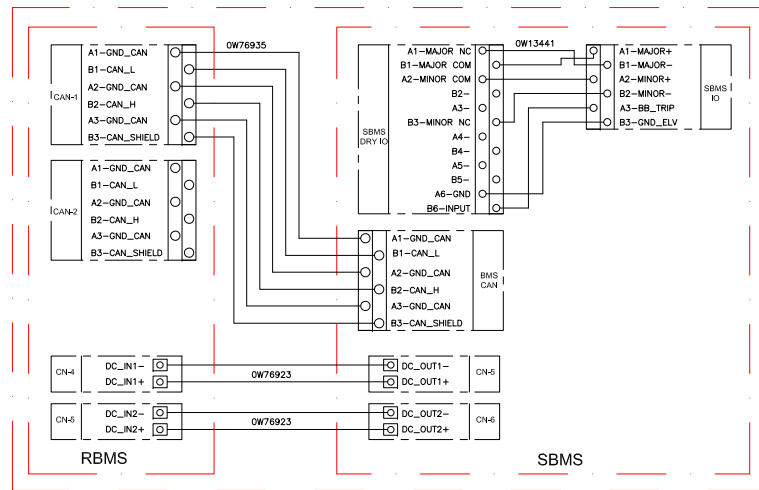
- NOTES:**
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 - △ 3. INSTALL THE TEMPERATURE SENSOR OM-1160 PROVIDED WITH THE UPS IN THE BATTERY ROOM.
 - △ 4. USE THE PROVIDED OW13442 TO CONNECT UPS BB_TRIP CONTACT.
 - △ 5. USE THE PROVIDED OW76929 TO CONNECT MCCB AUX 1 (THE FIRST ONE RACK OF A BANK) TO UPS.
 - △ 6. USE THE PROVIDED OW76930 TO CONNECT MCCB AUX 2 CONTACT FOR LAST RACK IN A BANK.
 - △ 7. USE THE PROVIDED OW13444 TO CONNECT MAJOR AND MINOR FAULT CONTACTS.
 - △ 8. USE THE PROVIDED OW76934 TO CONNECT MCCB AUX SIGNALS IN SERIES.
 - △ 9. USE THE PROVIDED OW76972 TO CONNECT MINOR FAULT ALARM CONTACTS.
 - △ 10. PLEASE CONTACT APPLICATION ENGINEERING TEAM FOR THE REQUIRED CONNECTION METHODS WITH PULL BOX, FUSED PULL BOX AND etc.
 - △ 11. SHORT PIN 1 AND 3 IN J6604.
 12. THE SYSTEM BMS IS LOCATED IN BATTERY RACK 1 ONLY.

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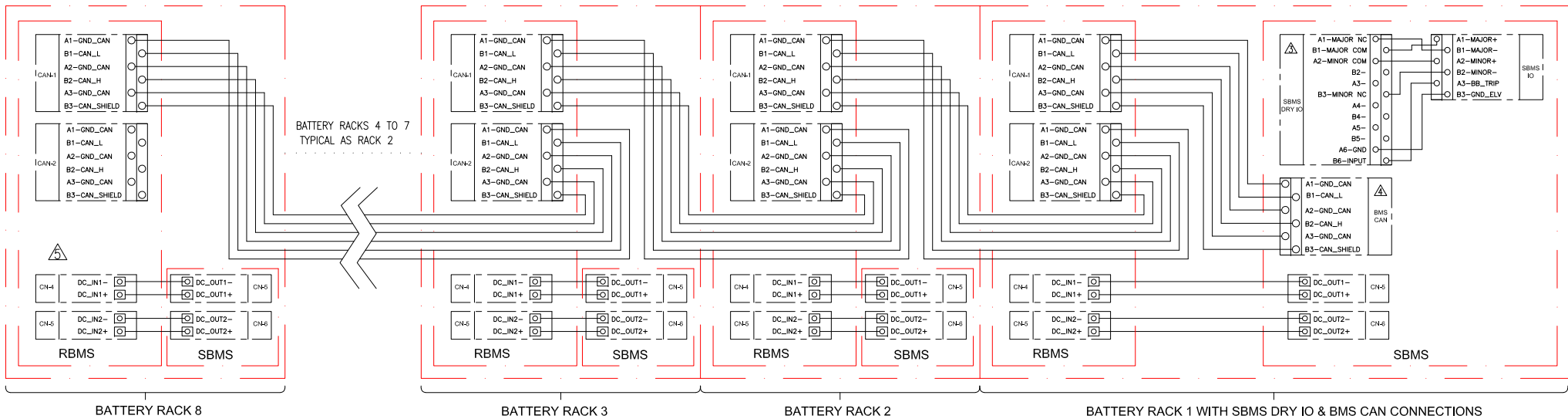
TITLE: Galaxy Lithium-ion Battery cabinet, GVS UL INTERFACE DETAILS-WITH PULL BOX		DWG NO: LIBSESMGCVSUL	REV. 0
PROJECT: SUBMITTAL DRAWING	SHEET 8 OF 11	DRAWN BY: JAYAPRAKASH	27-MAY-21
		ENGINEER: Fred XIA/PAUL J	31-MAY-21
		APPROVED BY: Fred XIA/JEFFREY P	31-MAY-21
			ANGLE PROJECTION
			N. Δ

BMS WIRING DETAILS FOR ONE BATTERY RACK



BATTERY RACK 1 WITH SBMS DRY IO & BMS CAN CONNECTIONS

BMS WIRING DETAILS UP TO EIGHT BATTERY RACKS



- NOTES:**
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 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 - △ 3. **SBMS DRY IO** IS CONNECTED IN BATTERY RACK 1 ONLY.
 - △ 4. **BMS CAN** IS CONNECTED IN BATTERY RACK 1 ONLY.
 - △ 5. SLIDE THE CAN BUS LOOP TERMINATION RESISTOR SWITCH TO ON POSITION IN THE LAST ONE BATTERY RACK.

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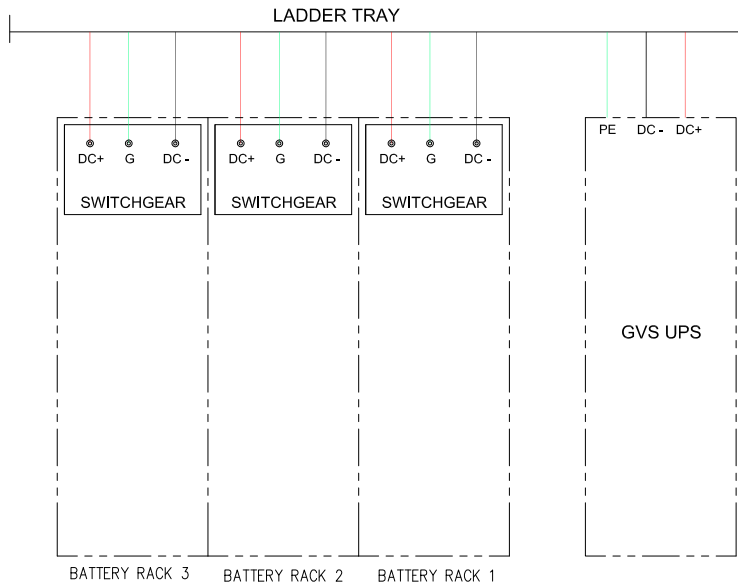


TITLE:
Galaxy Lithium-ion Battery cabinet, CVS UL
INTERFACE DETAILS-SBMS TO RBMS

PROJECT: SUBMITTAL DRAWING **SHEET** 9 OF 11

DWG NO: LIBSESMGCVSUL	REV. 0
DRAWN BY: JAYAPRAKASH	27-MAY-21
ENGINEER: Fred XIA/PAUL J	31-MAY-21
APPROVED BY: Fred XIA/JEFFREY P	31-MAY-21
ANGLE	PROJECTION
N	△

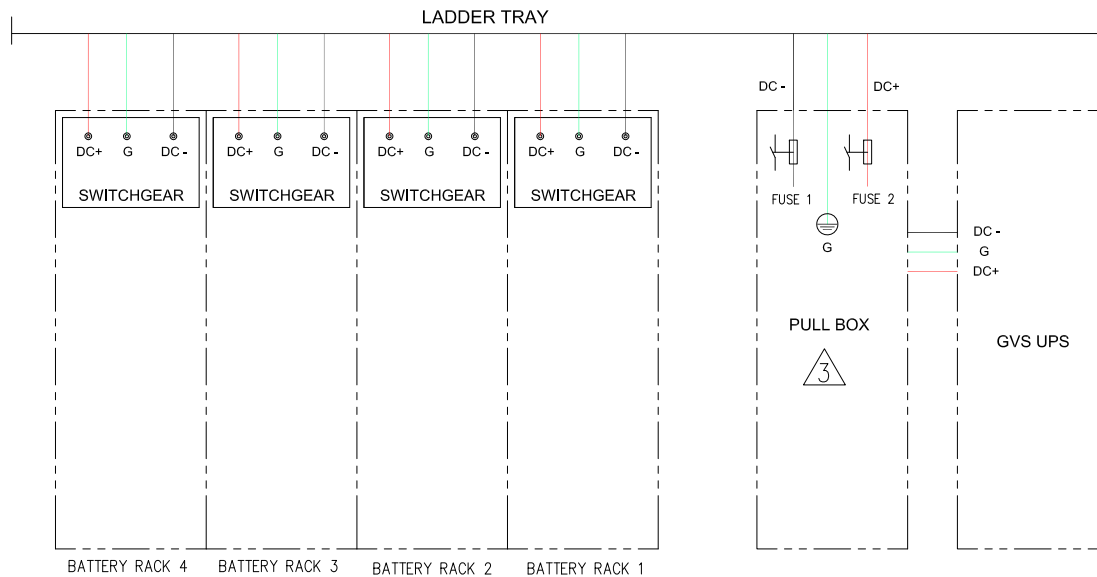
SCHEMATIC FOR GALAXY VS WHEN 3 BATTERY RACKS CONNECTED WITH LADDER TRAY TO UPS



ELECTRICAL DATA		
SKU Number/Model	LIBSESMG13UL	LIBSESMG16UL
Number of Battery Modules	13	16
Number of Type-A Battery Modules	6	8
Number of Type-B Battery Modules	7	8
Number of Battery cells in a string	104	128
Nominal Energy (kWh)	26.5	32.6
Nominal Battery Voltage (VDC)	395	486
Nominal capacity (Ah)	67	67
Charge current rate (CA rate)	0.7	0.7
Float charge Voltage (VDC)	436	537
End of discharge Voltage (VDC)	312	384
Maximum continuous discharge power (kW)	140	173
Peak current at end of discharge (A)	450	450
Short circuit rating RMS value (kA)	2.9	2.9

The maximum allowable cable size is 300kcmil
Refer to applicable UPS installation manual for recommended cable sizes

SCHEMATIC FOR GALAXY VS WHEN 4 BATTERY RACKS CONNECTED WITH LADDER TRAY & PULL BOX TO UPS



Galaxy VS LIB configuration		
Input/Output Voltage (VAC)	UPS Rating (kW)	Modules per string
208	10	13/16
	15	13/16
	20	13/16
	30	13/16
	40	13/16
	50	13/16
	60	13/16
480	75	13/16
	20	13/16
	30	13/16
	40	13/16
	50	16
	60	16
	80	13/16
	100	16
120	16	
150	16	

NOTES:

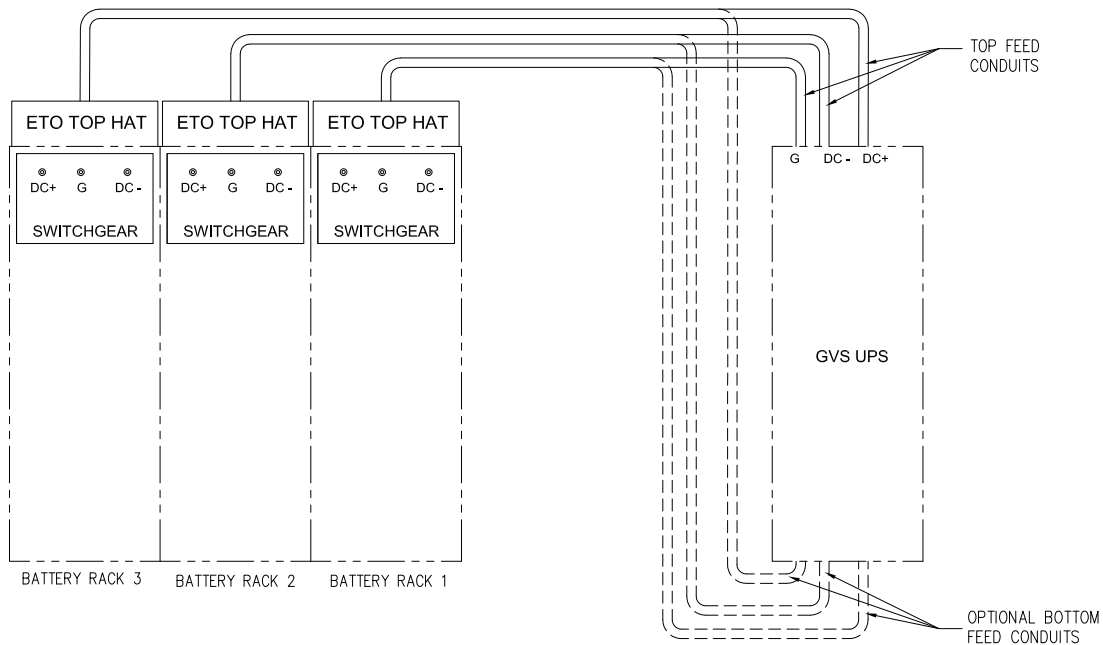
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. FOR 4 RACKS AND ABOVE, PLEASE CONTACT APPLICATION ENGINEERING TEAM FOR THE REQUIRED CONNECTION METHODS. REFER TO PAGE-6 FOR MORE DETAILS REGARDING CONNECTIONS, CONFIGURATIONS AND RACK'S SHORT CIRCUIT RATING RMS VALUE.

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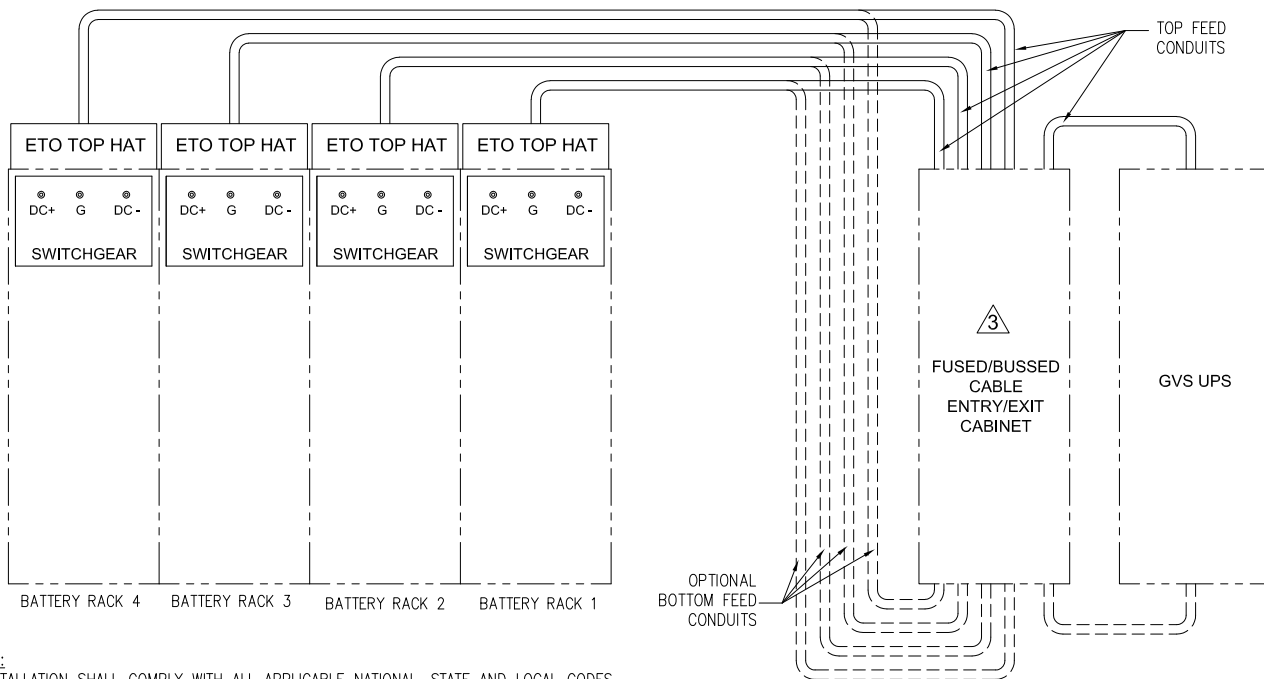


TITLE: Galaxy Lithium-ion Battery cabinet, GVS UL SCHEMATIC DIAGRAM		DWG NO: LIBSESMGCVSUL	REV. 0
PROJECT: SUBMITTAL DRAWING	SHEET 10 OF 11	DRAWN BY: JAYAPRAKASH	27-MAY-21
		ENGINEER: Fred XIA/PAUL J	31-MAY-21
		APPROVED BY: Fred XIA/JEFFREY P	31-MAY-21
			ANGLE PROJECTION
			N.A.

SCHEMATIC FOR GALAXY VS WHEN 3 BATTERY RACKS CONNECTED WITH TOP HAT & CONDUITS TO UPS



SCHEMATIC FOR GALAXY VS WHEN 4 BATTERY RACKS CONNECTED WITH TOP HAT, CONDUITS, BUSSED CABINET TO UPS



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.
- Δ 3. FOR 4 RACKS AND ABOVE, PLEASE CONTACT APPLICATION ENGINEERING TEAM FOR THE REQUIRED CONNECTION METHODS. REFER TO PAGE-6 FOR MORE DETAILS REGARDING CONNECTIONS, CONFIGURATIONS AND RACK'S SHORT CIRCUIT RATING RMS VALUE.

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DRAWN BY: JAYAPRAKASH	27-MAY-21	ANGLE	
ENGINEER: Fred XIA/PAUL J	31-MAY-21	PROJECTION	
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PROJECT: SUBMITTAL DRAWING	SHEET: 11 OF 11		