

- 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
LIBSESMG17UL	465 [211]	1080 [490]	12.66 [321.5]	40.61 [1031.5]	12.25 [311.2]	12.56 [319]	39.89 [962.3]	10.99 [279.2]

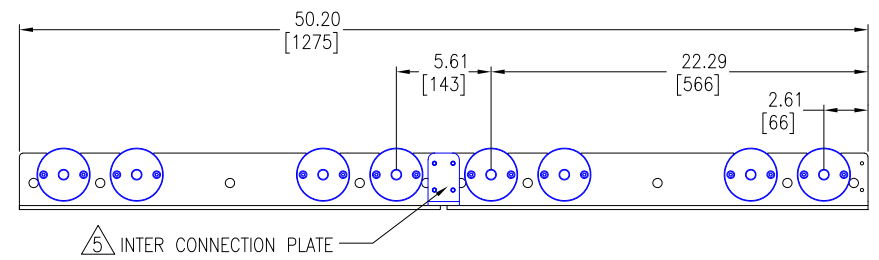
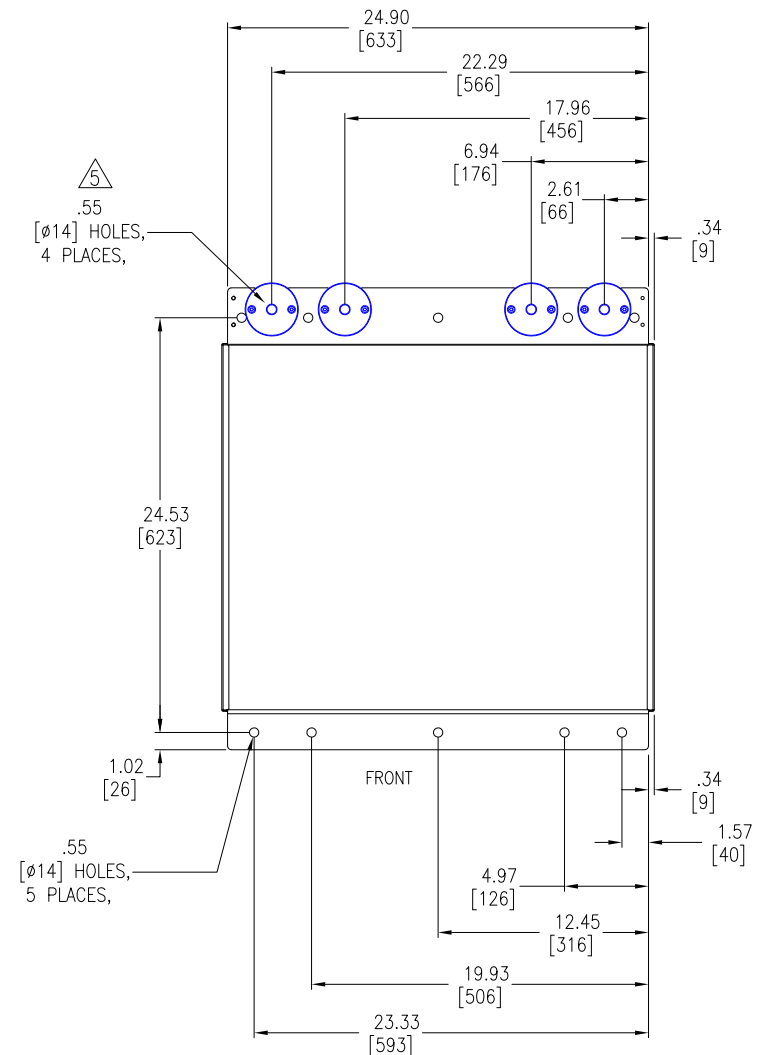
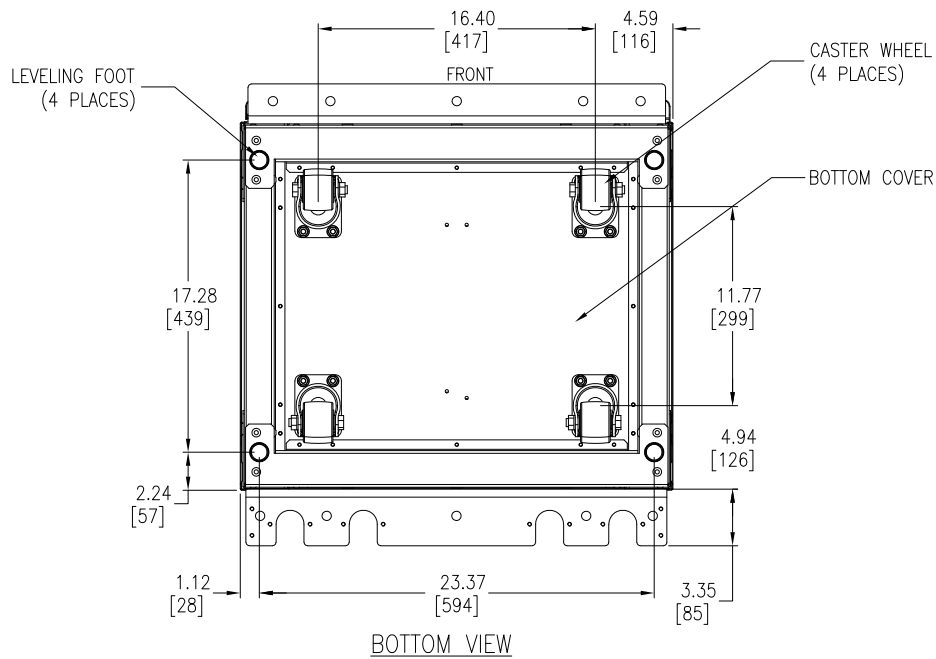
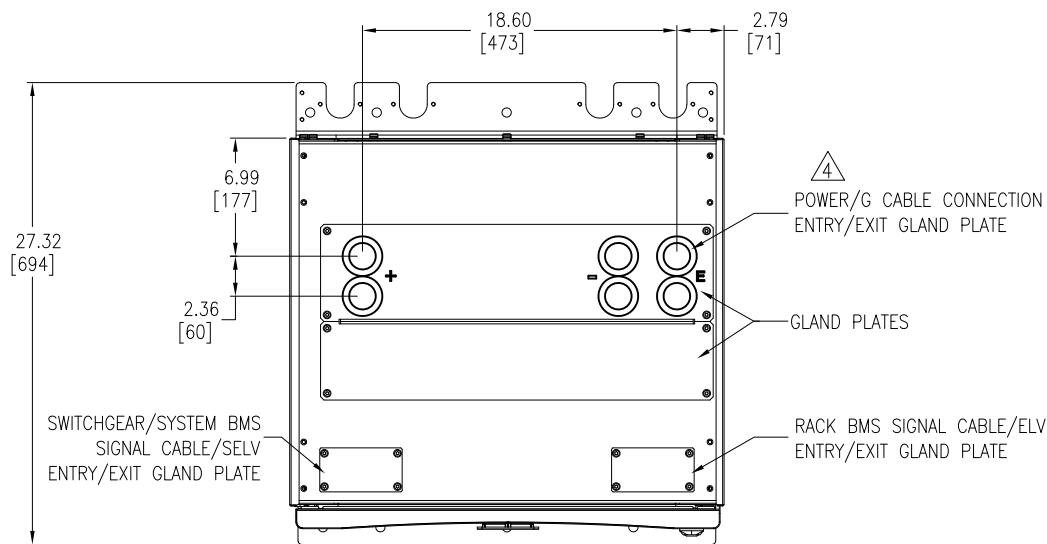
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**TITLE:**  
Galaxy Lithium-ion Battery cabinet, GVM UL GENERAL ARRANGEMENT

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

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



- NOTES:
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  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, GVM UL TOP/BOTTOM VIEW & ANCHORING DETAILS

PROJECT: SUBMITTAL DRAWING SHEET 2 OF 11

DWG NO: LIBSESMGGVMUL

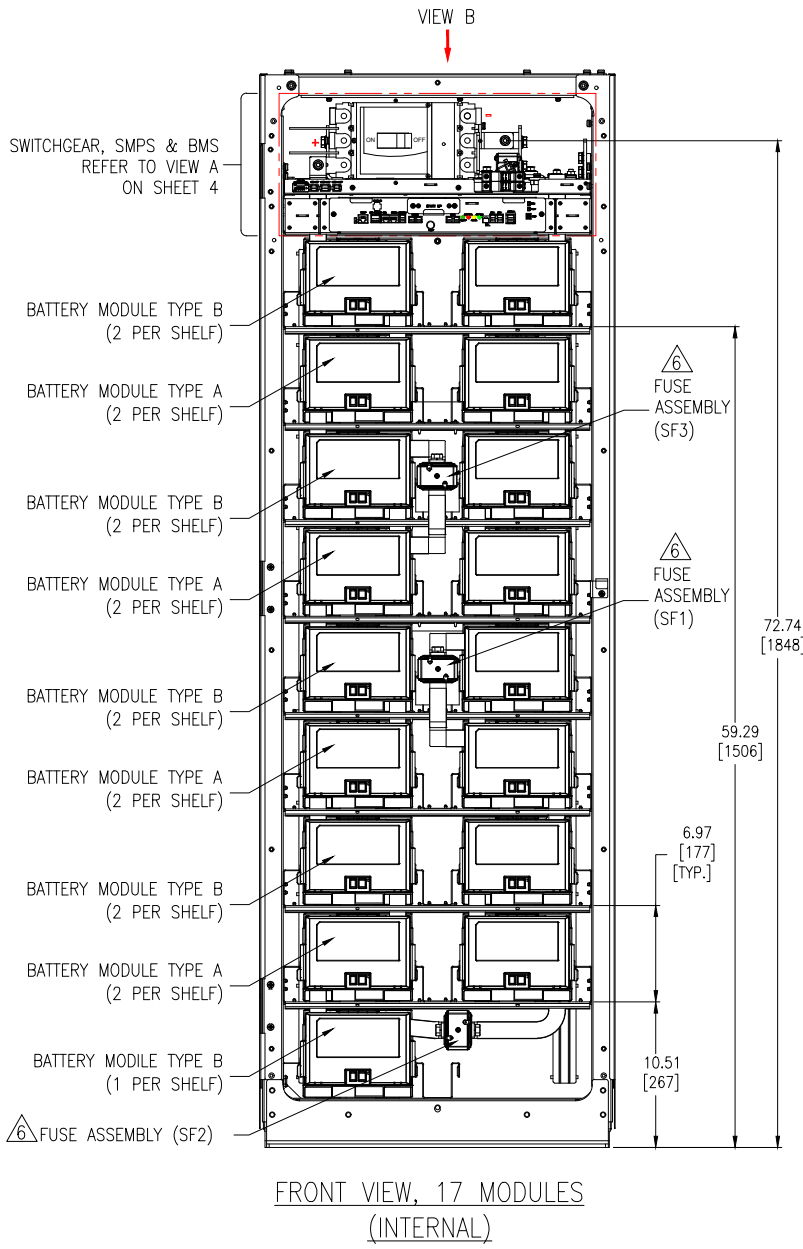
DRAWN BY: JAYAPRAKASH 27-MAY-21

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

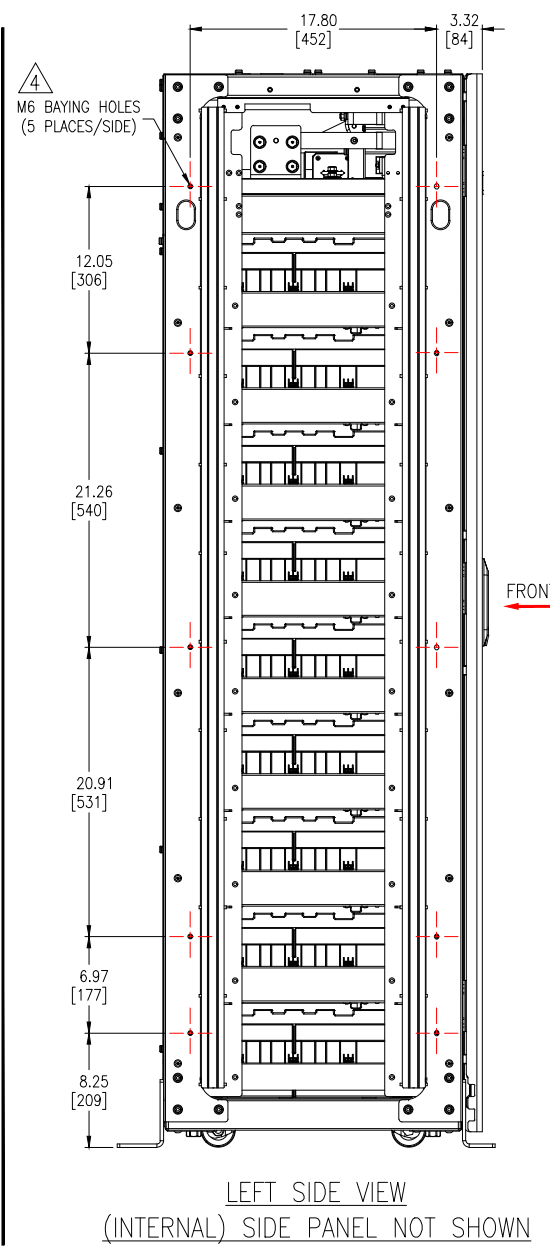
APPROVED BY: Fred XIA/JEFFREY P 31-MAY-21

REV. 0

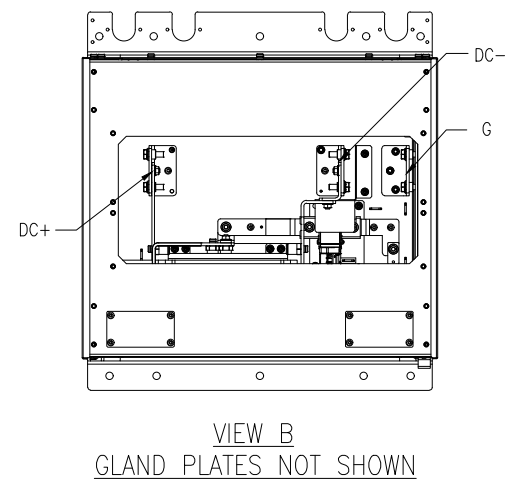
THIRD ANGLE PROJECTION



FRONT VIEW, 17 MODULES  
(INTERNAL)

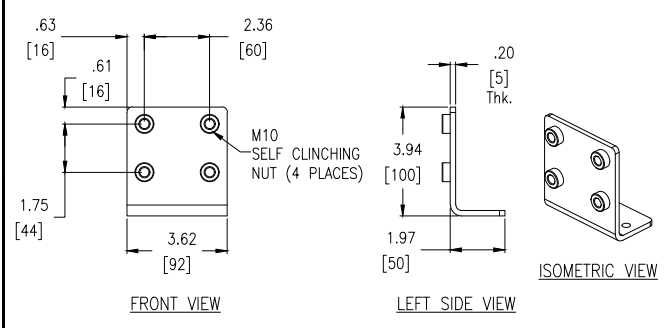


LEFT SIDE VIEW  
(INTERNAL) SIDE PANEL NOT SHOWN

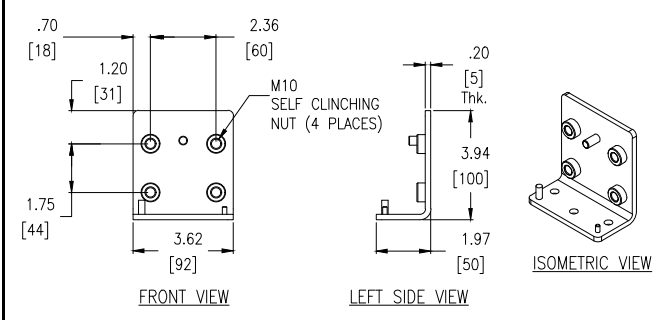


VIEW B  
GLAND PLATES NOT SHOWN

BUSBAR DETAILS



BUSBAR GROUND



BUSBAR DC+/DC-

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

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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. 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 RACK 1 ONLY.
  6. FUSE TYPE: 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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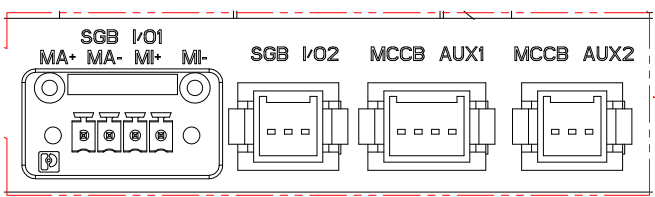
TITLE:  
Galaxy Lithium-ion Battery cabinet, GVM UL  
INTERNAL VIEWS

DWG NO:	LIBSESMGGVMUL	REV:	1
DRAWN BY:	RANJITHA	DATE:	22-MAY-23
ENGINEER:	SHERRY L E	DATE:	24-MAY-23
APPROVED BY:	RICK ZHANG	DATE:	24-MAY-23
PROJECT:	SUBMITTAL DRAWING	SHEET:	3 OF 11
		ANGLE	THIRD
		PROJECTION	ANGLE

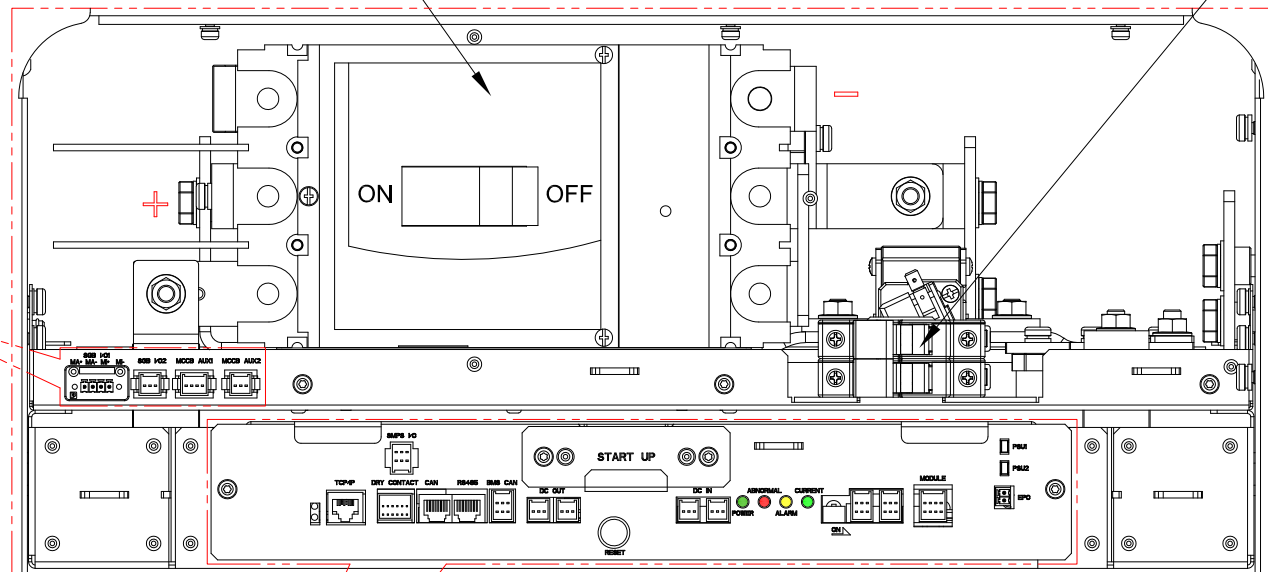
MCCB SETTINGS:  
 $I_m = 1500A$   
 APPLY TO ALL CONFIGURATIONS.

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

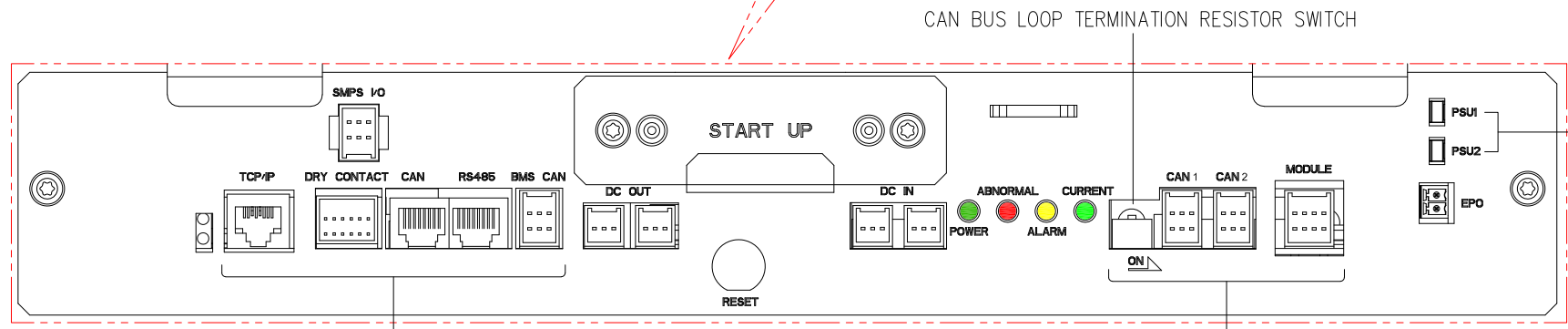
3 SMPS FUSES



SWITCHGEAR PORTS



VIEW A (ENLARGED)  
 SWITCHGEAR SMPS AND BMS



SYSTEM BMS PORTS

SMPS AND BMS

RACK BMS PORTS

- 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.

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

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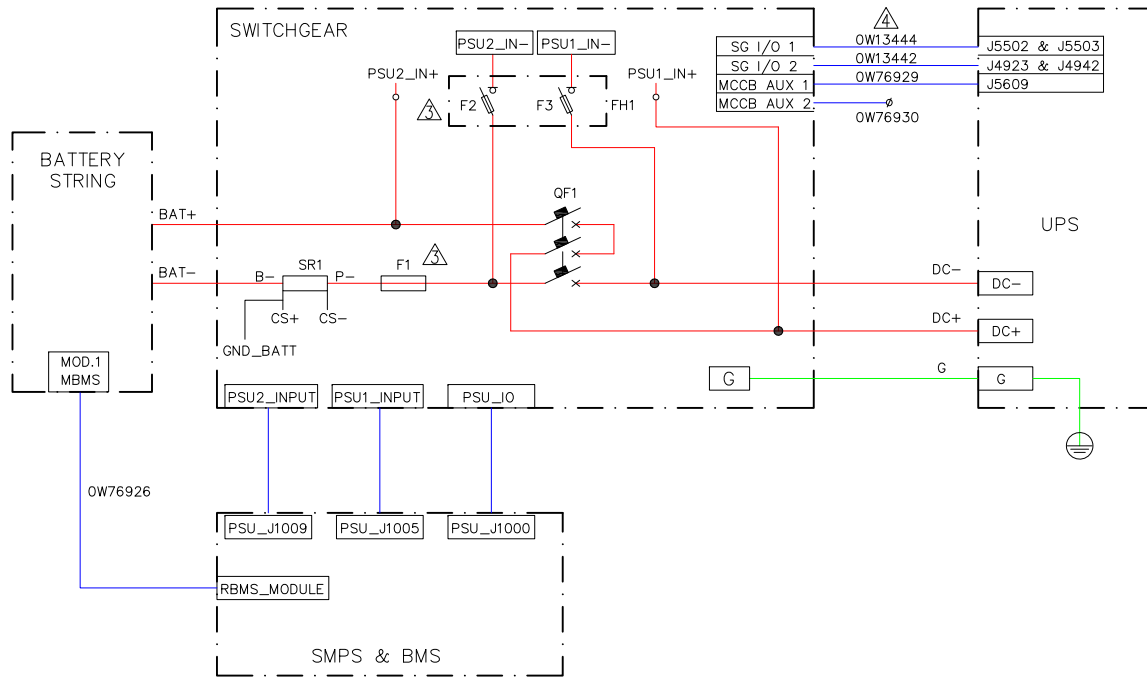


TITLE:  
 Galaxy Lithium-ion Battery cabinet, GVM UL  
 INTERNAL VIEWS

PROJECT: SUBMITTAL DRAWING SHEET 4 OF 11

DWG NO:	LIBSESMGGVMUL	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.

**SYSTEM DIAGRAM**



**LEGEND:**  
 CONTROL CABLE ————  
 POWER CABLE ————

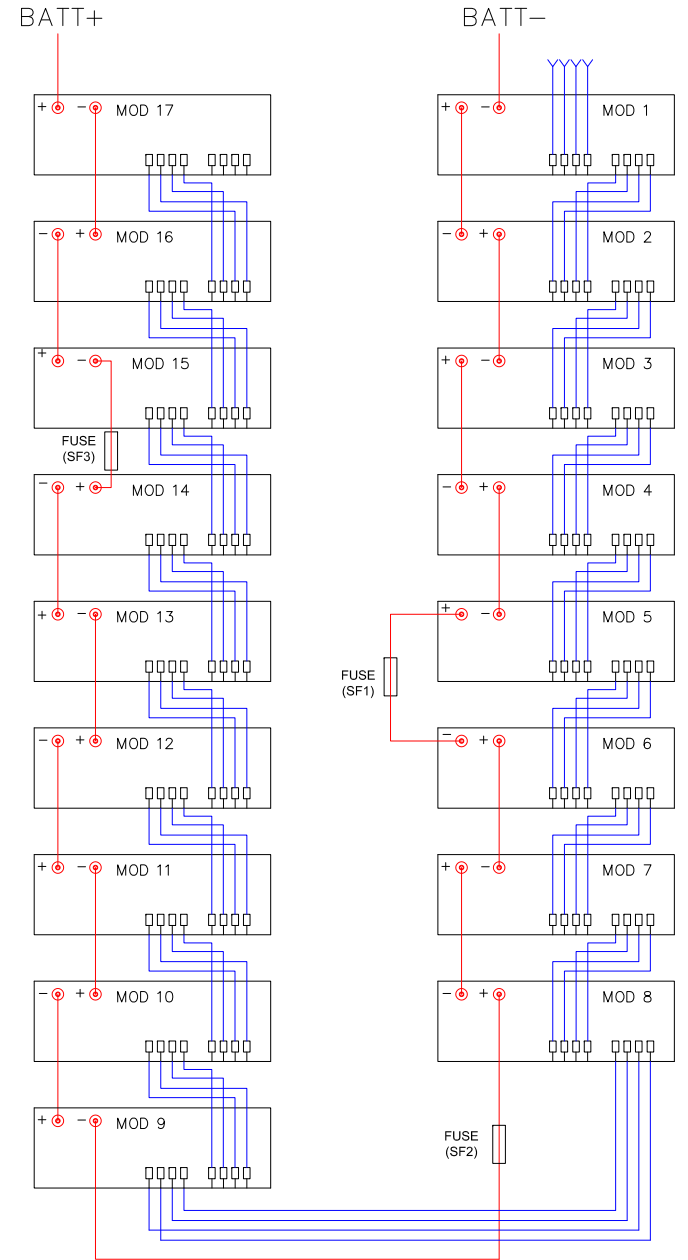
**NOTES:**

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 OSPF003.1 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.

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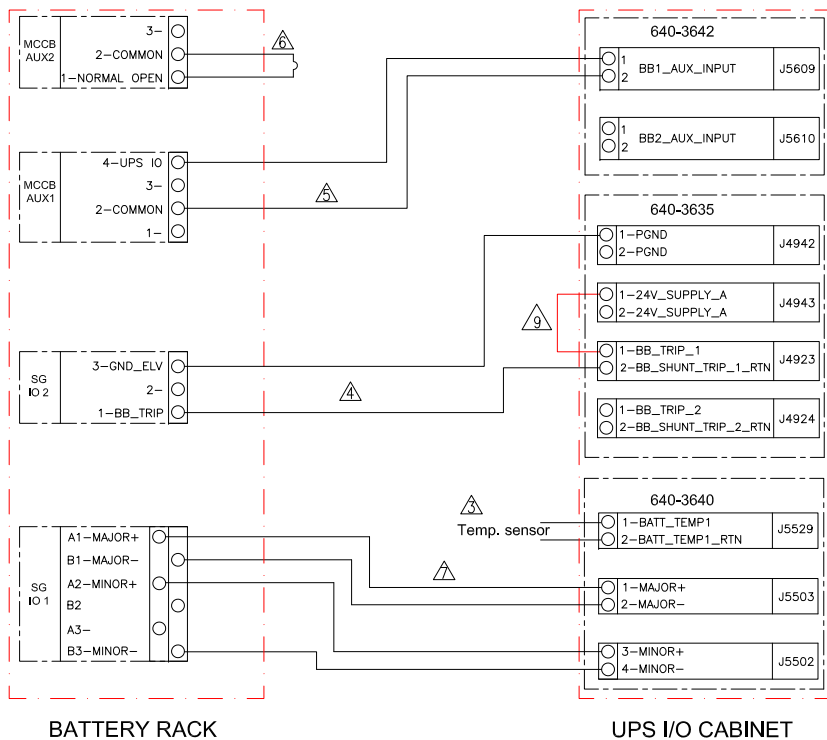
**CABLING DIAGRAM, 17 MODULES/STRING**



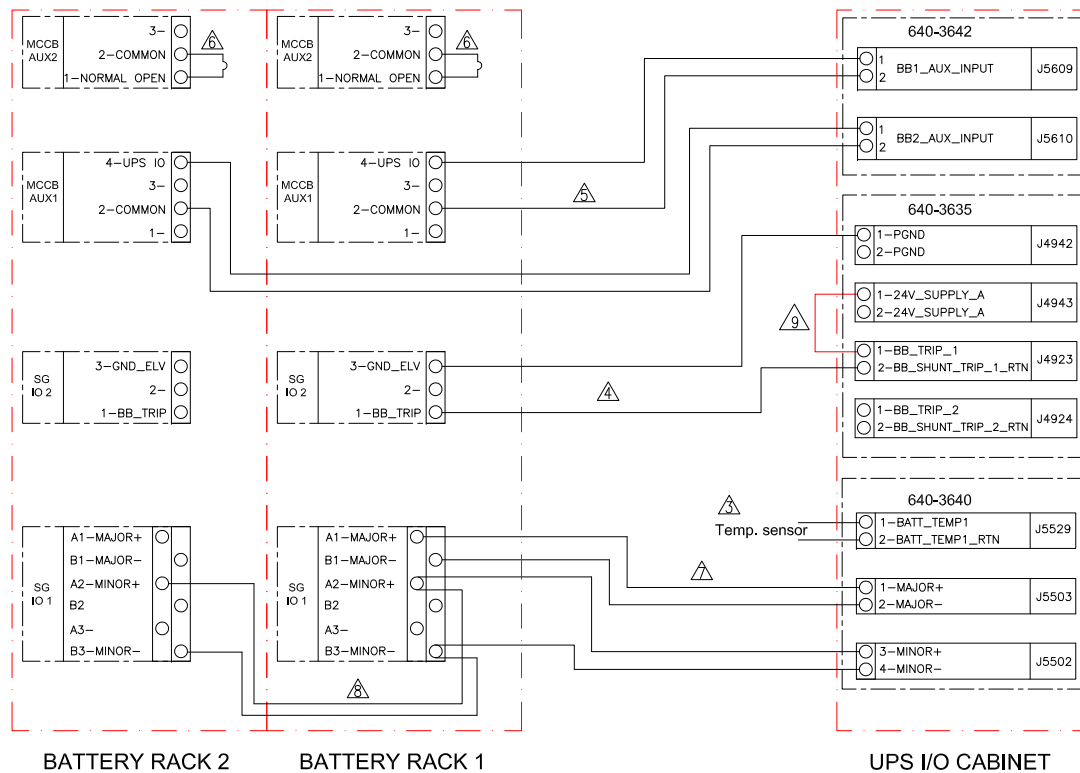
**LEGEND:**  
 CONTROL CABLE ————  
 BUS BAR ————

<b>TITLE:</b> Galaxy Lithium-ion Battery cabinet, GVM UL SYSTEM DIAGRAM & CABLING DIAGRAM		<b>DWG NO:</b> LIBSESMGGVMUL	<b>REV.</b> 0
<b>PROJECT:</b> SUBMITTAL DRAWING	<b>SHEET:</b> 5 OF 11	<b>DRAWN BY:</b> JAYAPRAKASH	27-MAY-21
		<b>ENGINEER:</b> Fred XIA/PAUL J	31-MAY-21
		<b>APPROVED BY:</b> Fred XIA/JEFFREY P	31-MAY-21
			ANGLE PROJECTION
			N.A.

INTERFACE DETAILS FOR GALAXY VM WHEN ONE BATTERY RACK CONNECTED TO UPS



INTERFACE DETAILS FOR GALAXY VM WHEN TWO BATTERY RACK CONNECTED TO UPS



- NOTES:**
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  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 0W76972 TO CONNECT MINOR FAULT ALARM CONTACTS.
  - △ 9. SHORT PIN 1 IN J4923 AND J4943.
  10. THE SYSTEM BMS IS LOCATED IN BATTERY RACK 1 ONLY.

UPS	Cable Tray Installation		Conduit Connection	
	Recommended Cable Size	Max Number of LIB Racks connected directly*	Recommended Cable Size	Max Number of LIB Racks connected directly*
GVM	350kcmil (Positive, Negative, Ground)	2 Racks**	Parallel 250kcmil at 75°C for conduit connection with ETO Top Hat Option	2 Racks**

\* For 4 to 8 Racks, contact the ETO teams for the required Pull Boxes with Fuses/ DC disconnects.

\*\* Based on 30°C ambient temperature as per NEC.

3 Racks need a Pull box if 2 holes cable lug is required.

Li-ion Battery Rack's short circuit rating RMS value is 2.9kA per rack and GVM limit is 10kA, the fuse protection shall cover the UPS short circuit limit.

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TITLE: Galaxy Lithium-ion Battery cabinet, GVM UL INTERFACE DETAILS-1 & 2 RACKS

DWG NO: LIBSESMGGVMUL REV. 0

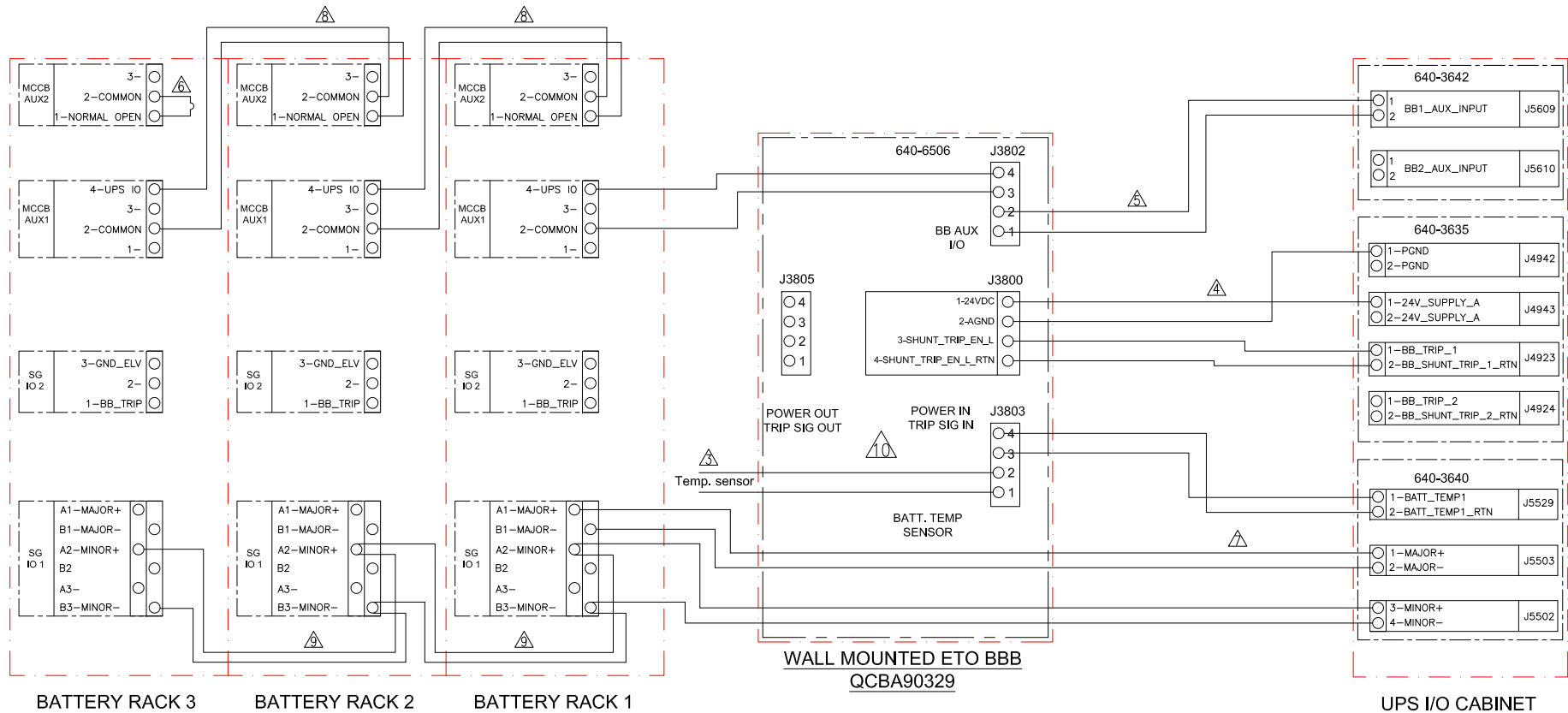
DRAWN BY: JAYAPRAKASH 27-MAY-21 ANGLE

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

PROJECT: SUBMITTAL DRAWING SHEET 6 OF 11

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

INTERFACE DETAILS FOR GALAXY VM WHEN THREE BATTERY RACK CONNECTED WITH BATTERY BREAKER BOX TO UPS



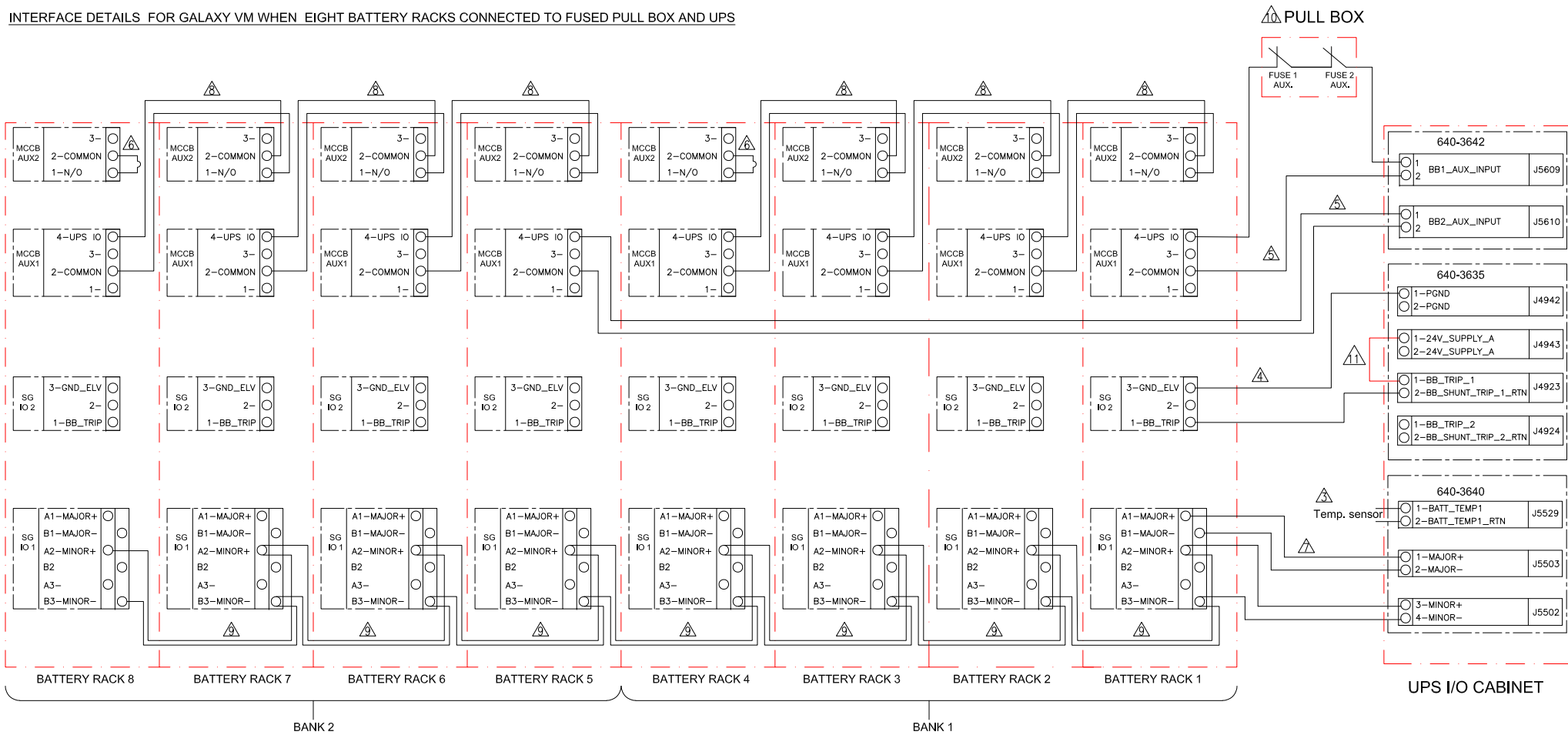
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  2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
  - △ 3. INSTALL THE TEMPERATURE SENSOR OM-1160 PROVIDED WITH THE UPS IN THE BATTERY ROOM.
  - △ 4. USE THE PROVIDED 0W13442 TO CONNECT UPS 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. FOR THE CONNECTIONS MADE THROUGH A CENTRAL BATTERY BREAKER CABINET, THE UPS SENDS THE TRIP SIGNAL TO THE BATTERY BREAKER CABINET TO TRIP OFF THE BATTERY BREAKER CABINET. (NOT TO THE LI-ION BATTERY RACKS).
  11. THE SYSTEM BMS IS LOCATED IN BATTERY RACK 1 ONLY.

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

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



CONFIGURATION WITH 8 BATTERY RACKS SHOWN FOR ILLUSTRATION

- NOTES:
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  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 IN J4923 AND J4943.
  12. THE SYSTEM BMS IS LOCATED IN BATTERY RACK 1 ONLY.

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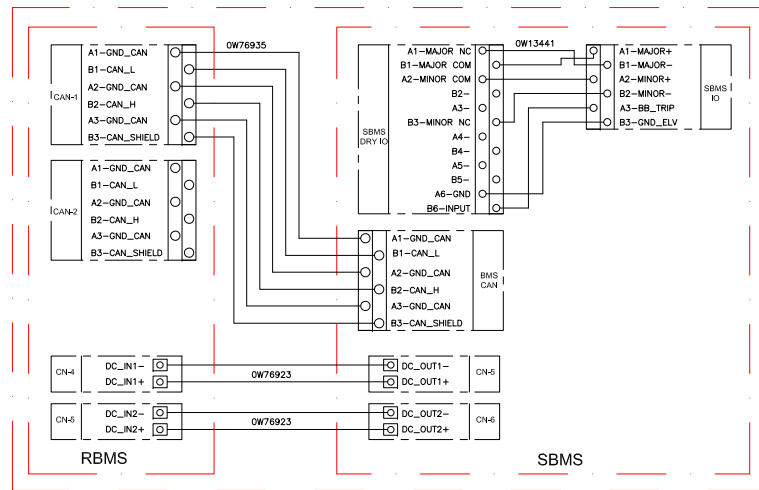
TITLE:  
Galaxy Lithium-ion Battery cabinet, GVM UL  
INTERFACE DETAILS-WITH PULL BOX

PROJECT: SUBMITTAL DRAWING SHEET 8 OF 11

DWG NO:	LIBSESMGGVMUL	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.

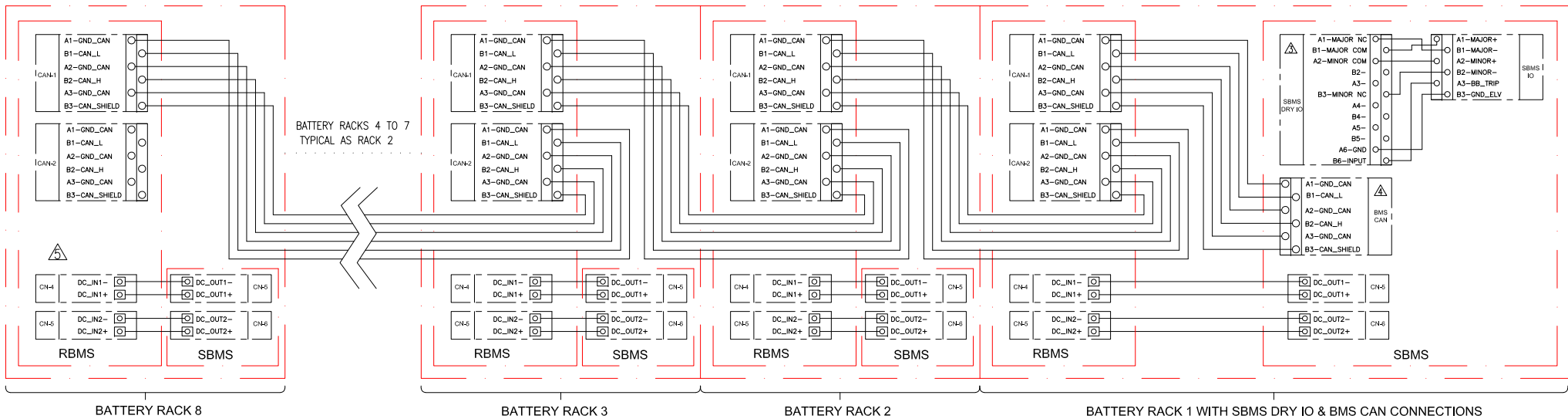


BMS WIRING DETAILS FOR ONE BATTERY RACK



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, GVM UL INTERFACE DETAILS-SBMS TO RBMS

PROJECT: SUBMITTAL DRAWING SHEET 9 OF 11

DWG NO:

LIBSESMGGVMUL

DRAWN BY: JAYAPRAKASH

ENGINEER: Fred XIA/PAUL J

APPROVED BY: Fred XIA/JEFFREY P

27-MAY-21

31-MAY-21

31-MAY-21

REV.

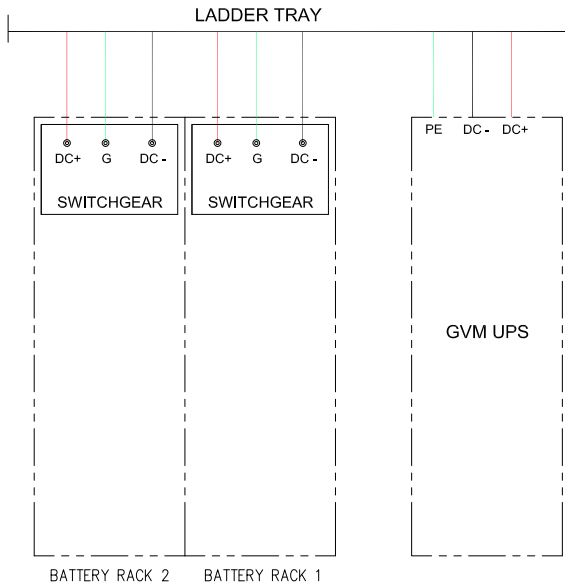
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ANGLE

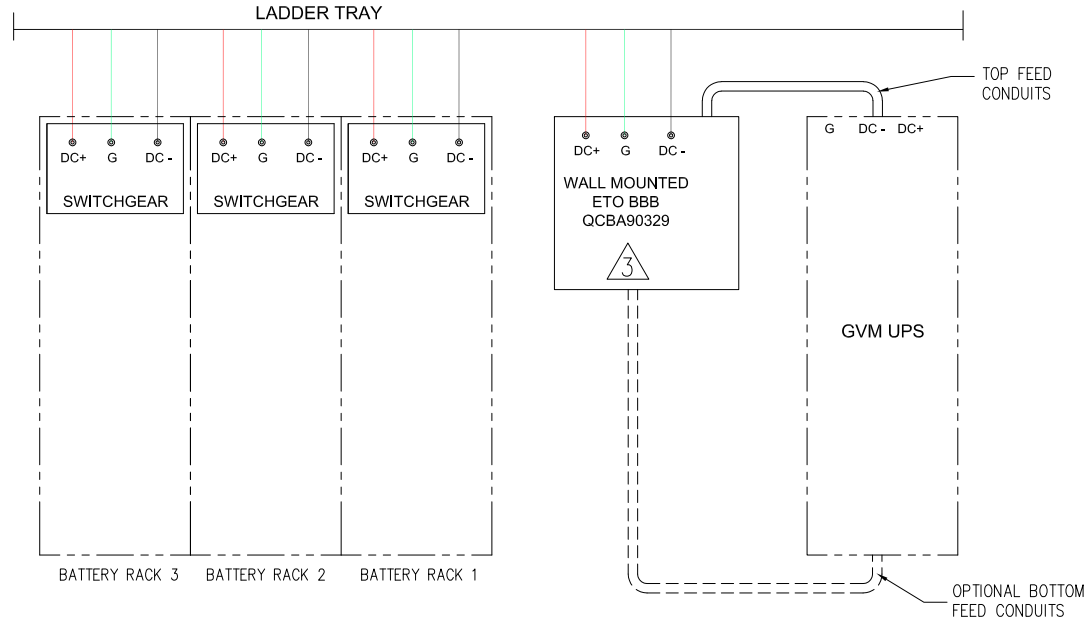
PROJECTION

N.A.

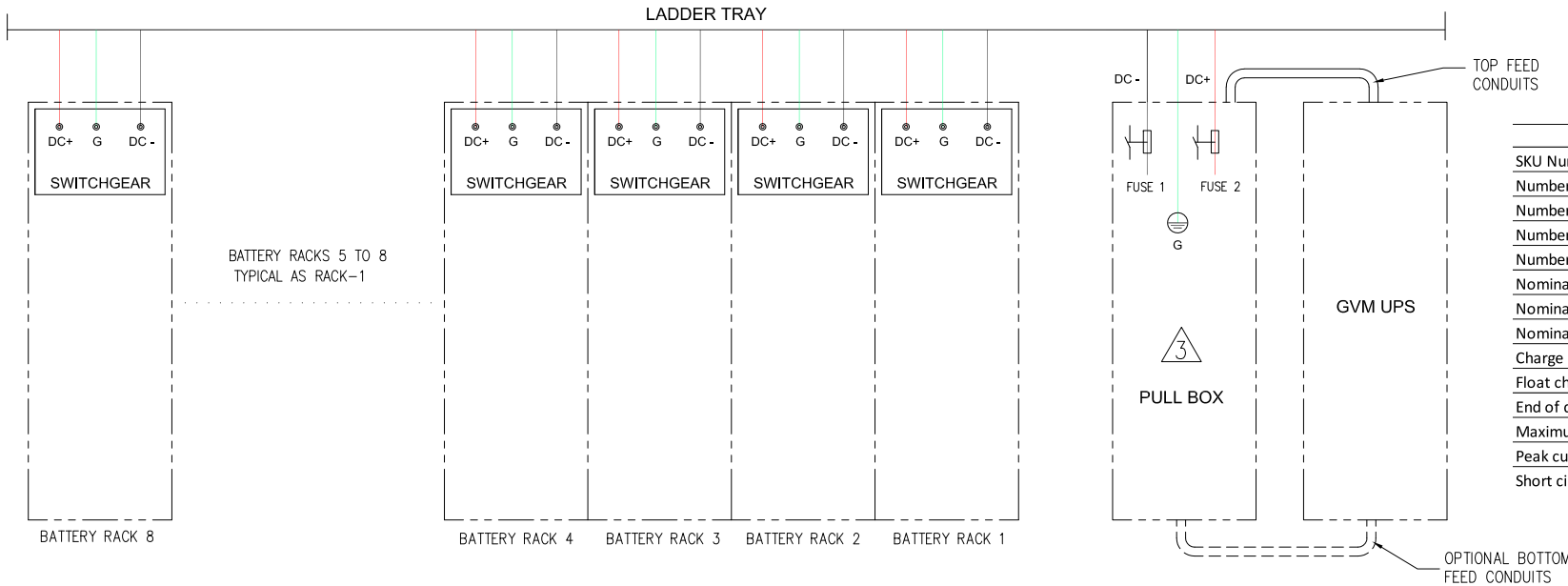
**SCHEMATIC FOR GALAXY VM WHEN 2 BATTERY RACKS CONNECTED WITH LADDER TRAY TO UPS**



**SCHEMATIC FOR GALAXY VM WHEN 3 BATTERY RACKS CONNECTED WITH LADDER TRAY & BBB TO UPS**



**SCHEMATIC FOR GALAXY VM WHEN 4 TO 8 BATTERY RACKS CONNECTED WITH LADDER TRAY & PULL BOX TO UPS**



ELECTRICAL DATA	
SKU Number/Model	LIBSESMG17UL
Number of Battery Modules	17
Number of Type-A Battery Modules	8
Number of Type-B Battery Modules	9
Number of Battery cells in a string	136
Nominal Energy (kWh)	34.6
Nominal Battery Voltage (VDC)	517
Nominal capacity (Ah)	67
Charge current rate (CA rate)	0.7
Float charge Voltage (VDC)	571
End of discharge Voltage (VDC)	408
Maximum continuous discharge power (kW)	184
Peak current at end of discharge (A)	450
Short circuit rating RMS value (kA)	2.9

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2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. FOR 2 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, GVM UL  
SCHEMATIC DIAGRAM WITH LADDER

**PROJECT:** SUBMITTAL DRAWING **SHEET 10 OF 11**

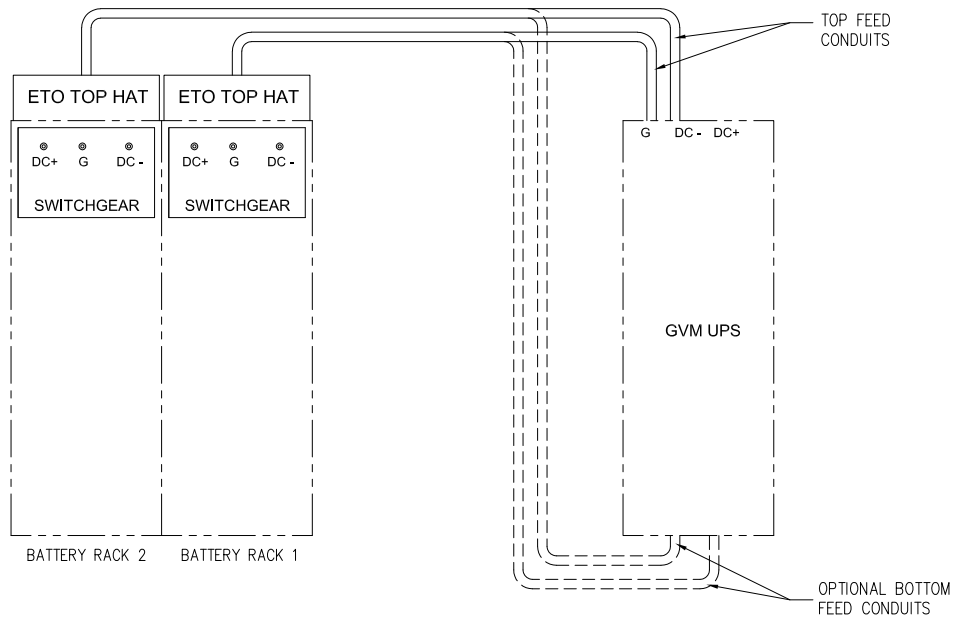
**DWG NO:** LIBSESMGGVMUL **REV.** 0

**DRAWN BY:** JAYAPRAKASH 27-MAY-21 **ANGLE**

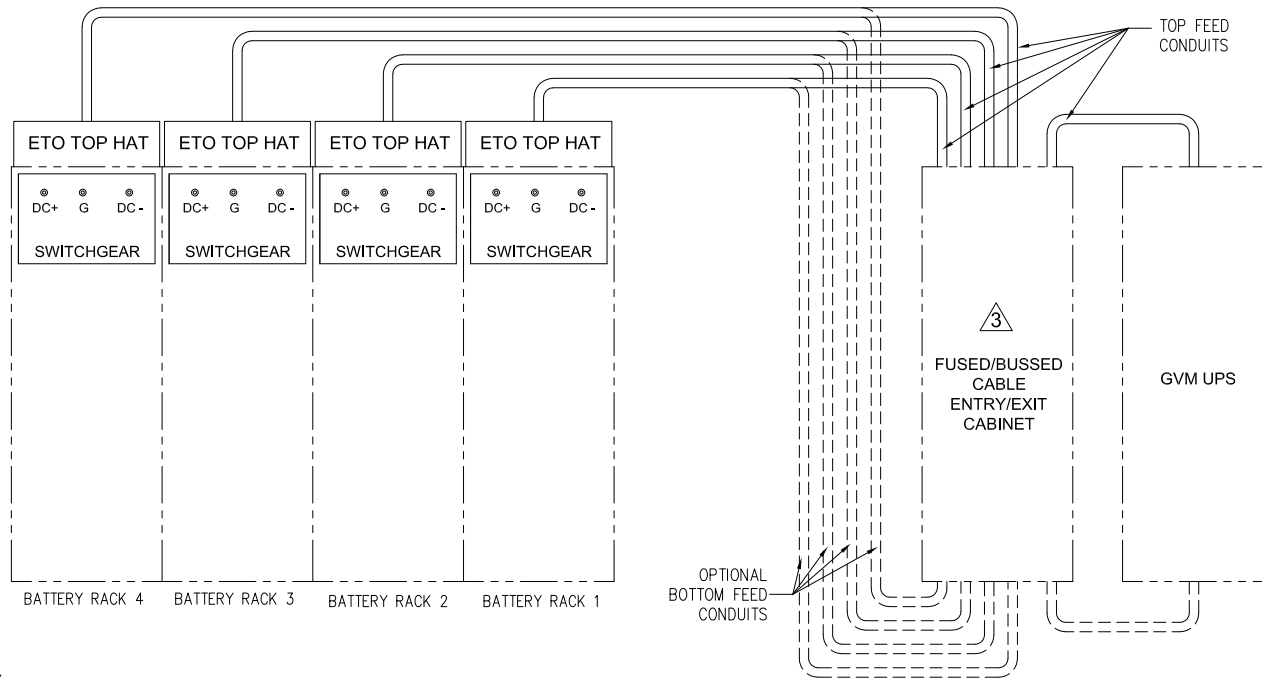
**ENGINEER:** Fred XIA/PAUL J 31-MAY-21 **PROJECTION**

**APPROVED BY:** Fred XIA/JEFFREY P 31-MAY-21 **N.A.**

**SCHEMATIC FOR GALAXY VM WHEN 2 BATTERY RACKS CONNECTED WITH TOP HAT & CONDUITS TO UPS**



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



**NOTES:**

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<b>TITLE:</b> Galaxy Lithium-ion Battery cabinet, GVM UL SCHEMATIC DIAGRAM WITH CONDUITS		<b>DWG NO:</b> LIBSESMGGVMUL	<b>REV.</b> 0
<b>DRAWN BY:</b> JAYAPRAKASH	27-MAY-21	<b>ANGLE</b>	
<b>ENGINEER:</b> Fred XIA/PAUL J	31-MAY-21	<b>PROJECTION</b>	
<b>APPROVED BY:</b> Fred XIA/JEFFREY P	31-MAY-21		N . Δ
<b>PROJECT:</b> SUBMITTAL DRAWING	<b>SHEET:</b> 11 OF 11	<b>APPROVED BY:</b> Fred XIA/JEFFREY P	31-MAY-21