

- NOTES:
- 1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
  - 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
  - 3. ALL DIMENSIONS ARE IN MILLIMETERS [INCHES].
  - 4. 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.
  - 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 16.5 kg [36.38 lb].
  - 8. COLOR: RAL9003, GLOSS LEVEL 85%.
  - 9. PROTECTION CLASS: IP20.
  - 10. OPERATING TEMPERATURE: 18 - 28°C [64 - 82°F].
  - 11. TO OPTIMIZE THE LIFE OF BATTERY, IT IS RECOMMENDED TO MAINTAIN 25°C [77°F].
  - 12. THIS INFORMATION PROVIDES APPROXIMATE CENTER OF GRAVITY CALCULATION.
  - 13. BATTERY RACKS CAN BE BAYED SIDE BY SIDE AND BACK TO BACK. REFER TO INSTALLATION MANUAL FOR DETAILS.
  - 14. THIS IS AN OPTIONAL DATA LOG KIT. REFER TO SHEET 4 FOR THE ENLARGED VIEW.

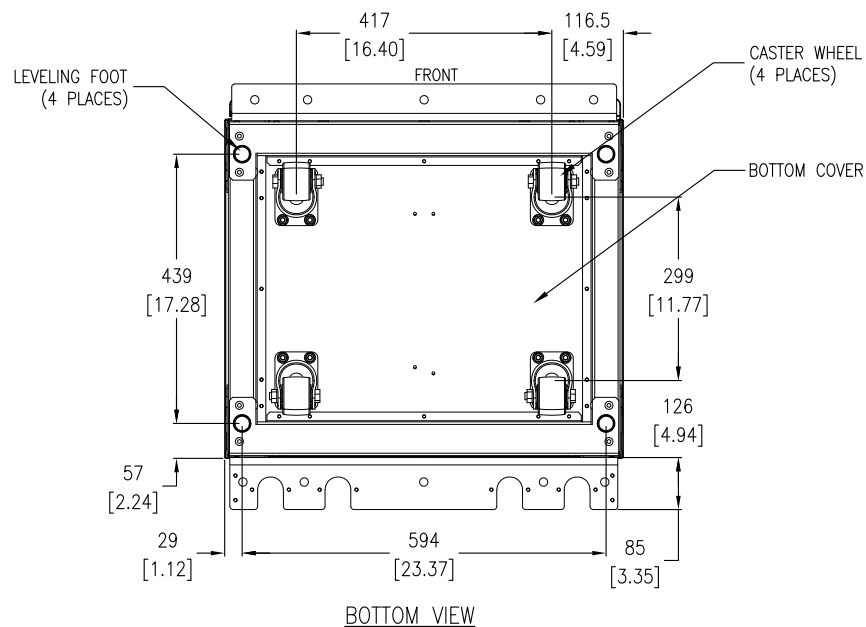
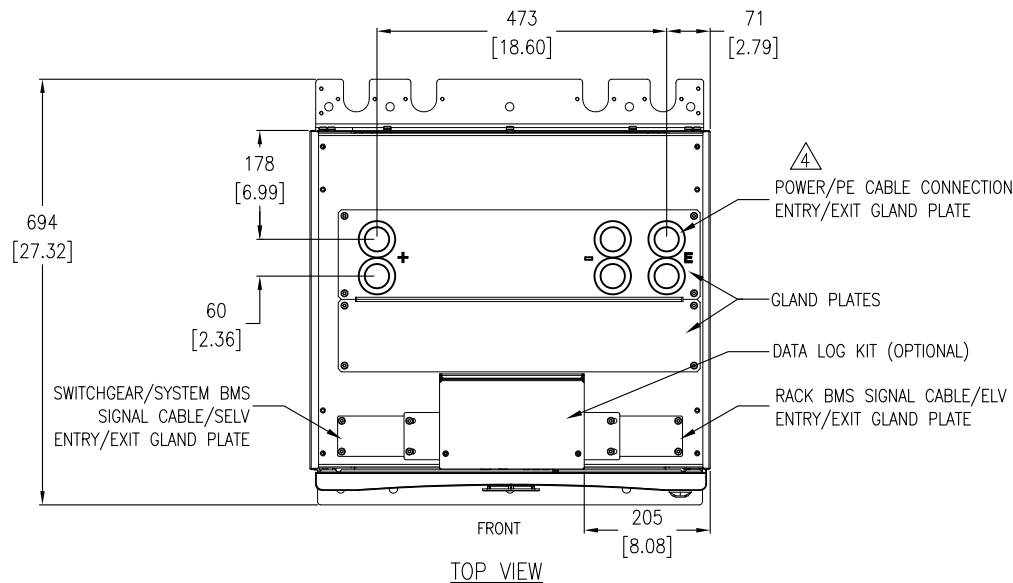
SKU NUMBER	WEIGHT IN kg [lb]		COG IN mm [Inch]						
	Empty Rack	Fully loaded Rack	Empty Rack			Fully loaded Rack			
			X-diection	Y-direction	Z-direction	X-diection	Y-direction	Z-direction	
LIBESMG16IEC	211 [465]	470 [1036]	321.5 [12.66]	1031.5 [40.61]	311.2 [12.25]	324 [12.76]	990.7 [39.00]	279.9 [11.02]	
LIBESMG17IEC		490 [1080]	321.5 [12.66]	1031.5 [40.61]	311.2 [12.25]	319 [12.56]	962.3 [39.89]	279.2 [10.99]	

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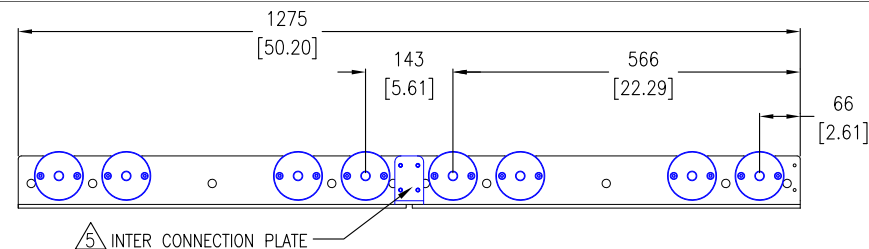
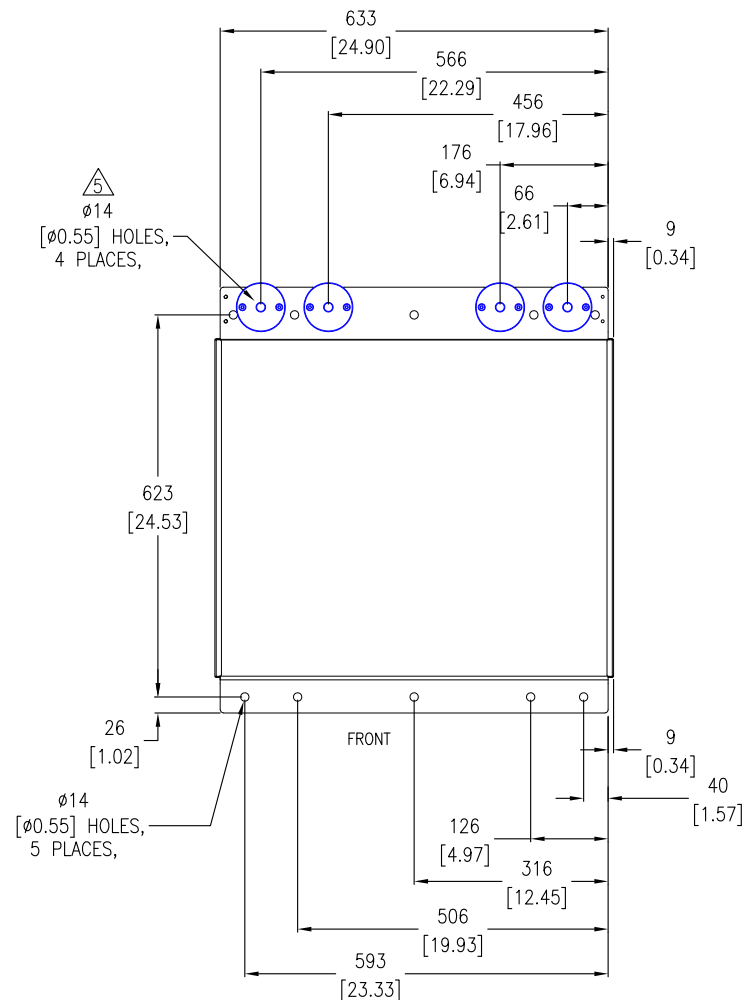


TITLE:  
Galaxy Lithium-ion Battery cabinet, GVL IEC  
GENERAL ARRANGEMENT  
PROJECT: SUBMITTAL DRAWINGS SHEET 1 OF 10

DWG NO: LIBESMG16V1EC  
DRAWN: TRASSIA  
ENGINEER: SHERRY LE  
APPROVED: PETER LIN  
REV. 1  
24-APR-25  
29-APR-25  
29-APR-25  
FIRST ANGLE PROJECTION



- NOTES:**
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  3. ALL DIMENSIONS ARE IN MILLIMETERS [INCHES].
  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.
  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, GVL IEC  
TOP/BOTTOM VIEW & ANCHORING DETAILS

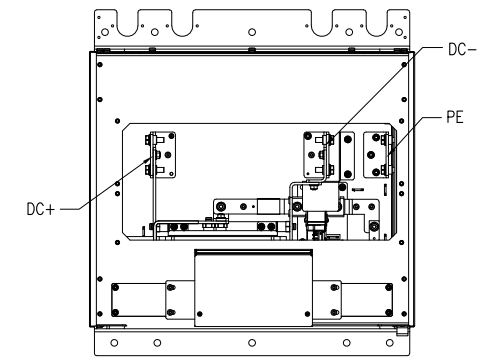
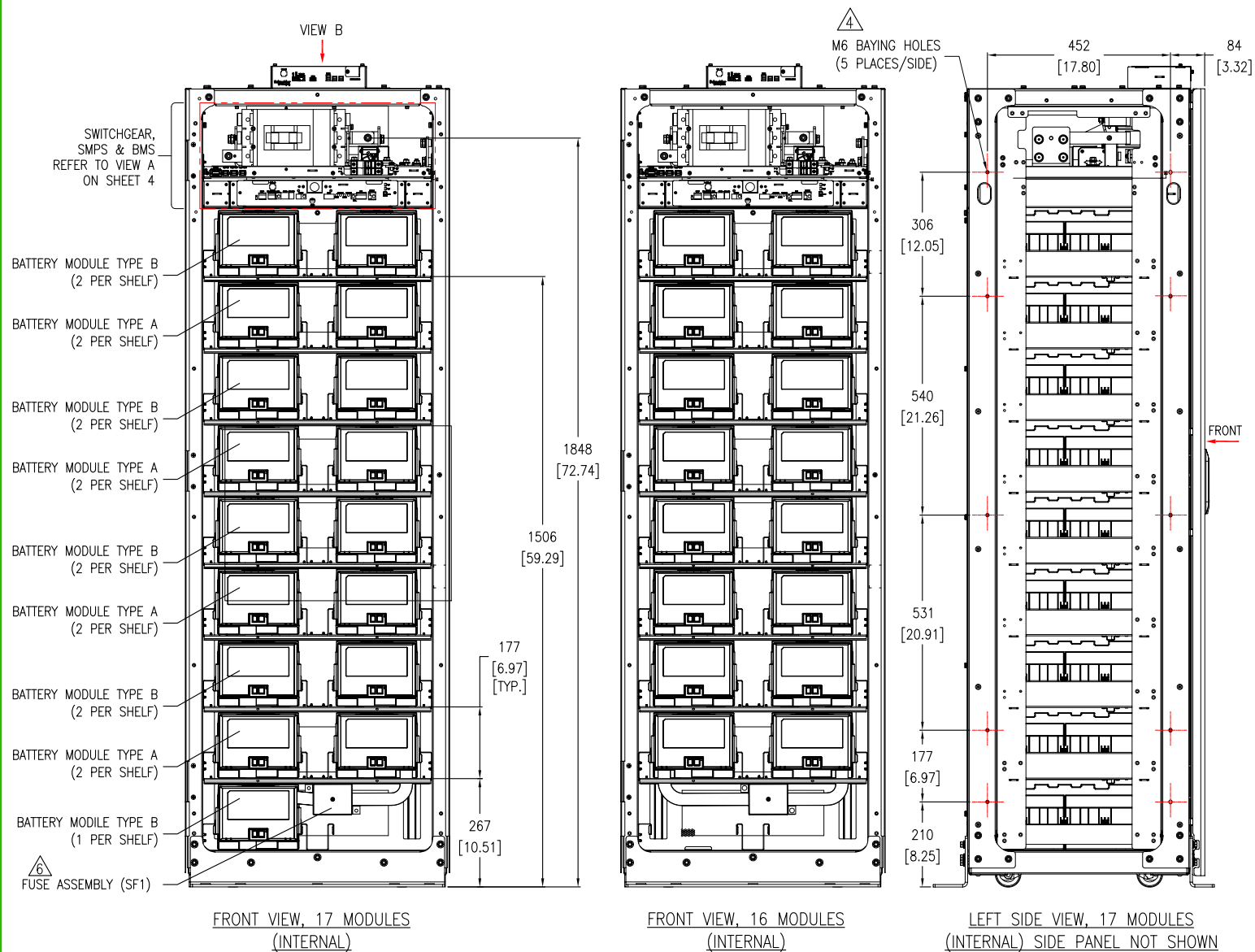
**PROJECT:** SUBMITTAL DRAWINGS **SHEET 2 OF 10**

**DWG NO:** LIBSESMGGVLIIEC

**DRAWN:** TRASSIA  
**ENGINEER:** SHERRY LE  
**APPROVED:** PETER LIN

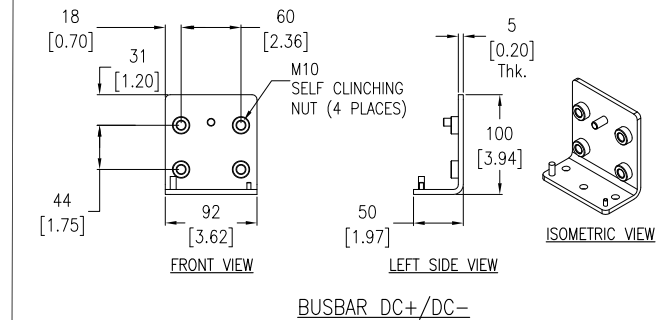
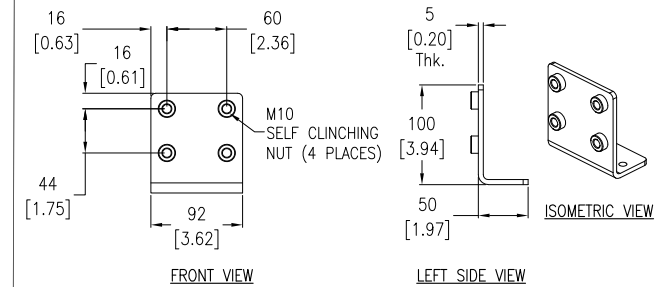
**DATE:** 24-APR-25  
**DATE:** 29-APR-25  
**DATE:** 29-APR-25

**REV. 1**  
**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 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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**Schneider Electric**

TITLE:  
Galaxy Lithium-ion Battery cabinet, GVL IEC  
INTERNAL VIEW

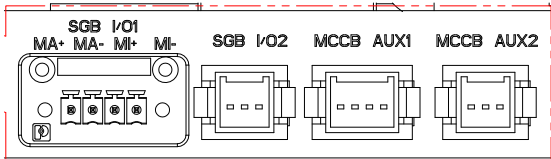
PROJECT: SUBMITTAL DRAWINGS SHEET 3 OF 10

DWG NO: LIBSESMGGVLEIC

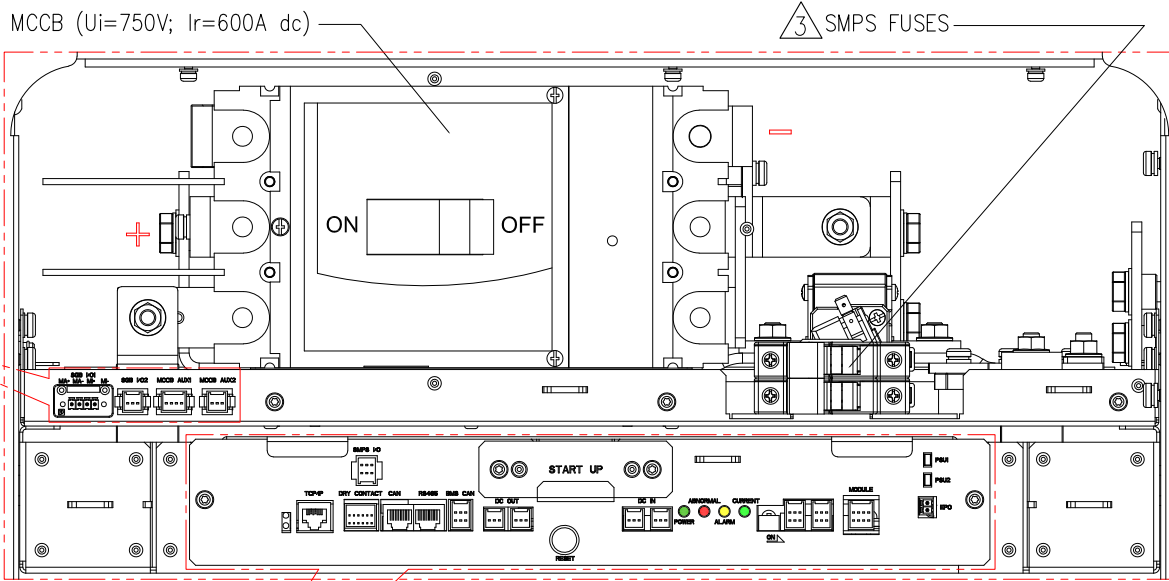
DRAWN: TRASSIA 24-APR-25  
ENGINEER: SHERRY LE 29-APR-25  
APPROVED: PETER LIN 29-APR-25

REV. 1  
FIRST ANGLE PROJECTION

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

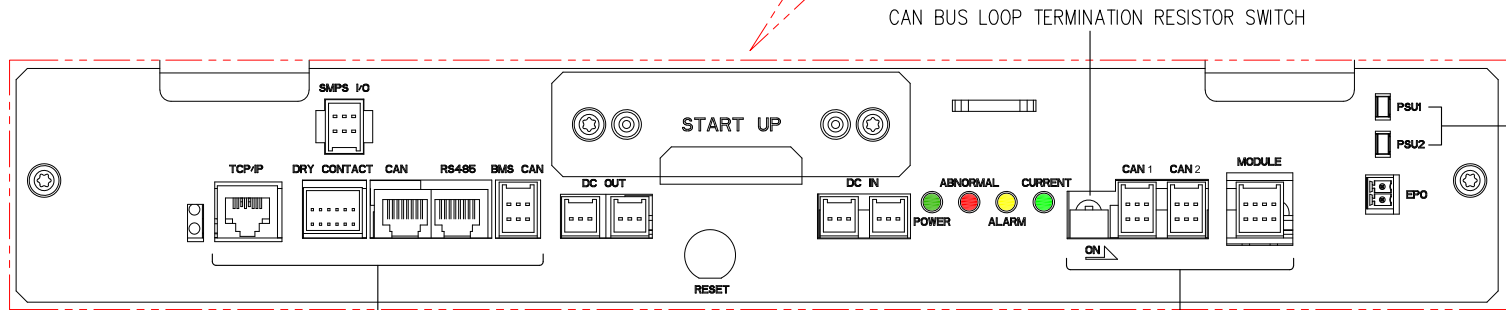


SWITCHGEAR PORTS



VIEW A (ENLARGED)  
SWITCHGEAR SMPS AND BMS

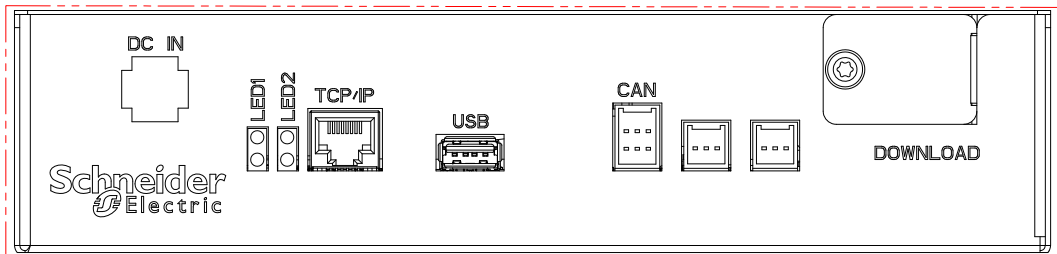
CABLING NOTES:  
CANBUS COMMUNICATIONS BETWEEN  
RACKS IS SUPPLIED AND INSTALLED  
BY SCHNEIDER ELECTRIC.



SYSTEM BMS PORTS

SMPS AND BMS

RACK BMS PORTS



DATA LOG KIT

- NOTES:
- 1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
  - 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 RACK 1 ONLY.

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TITLE:  
Galaxy Lithium-ion Battery cabinet, GVL IEC  
DETAIL VIEWS

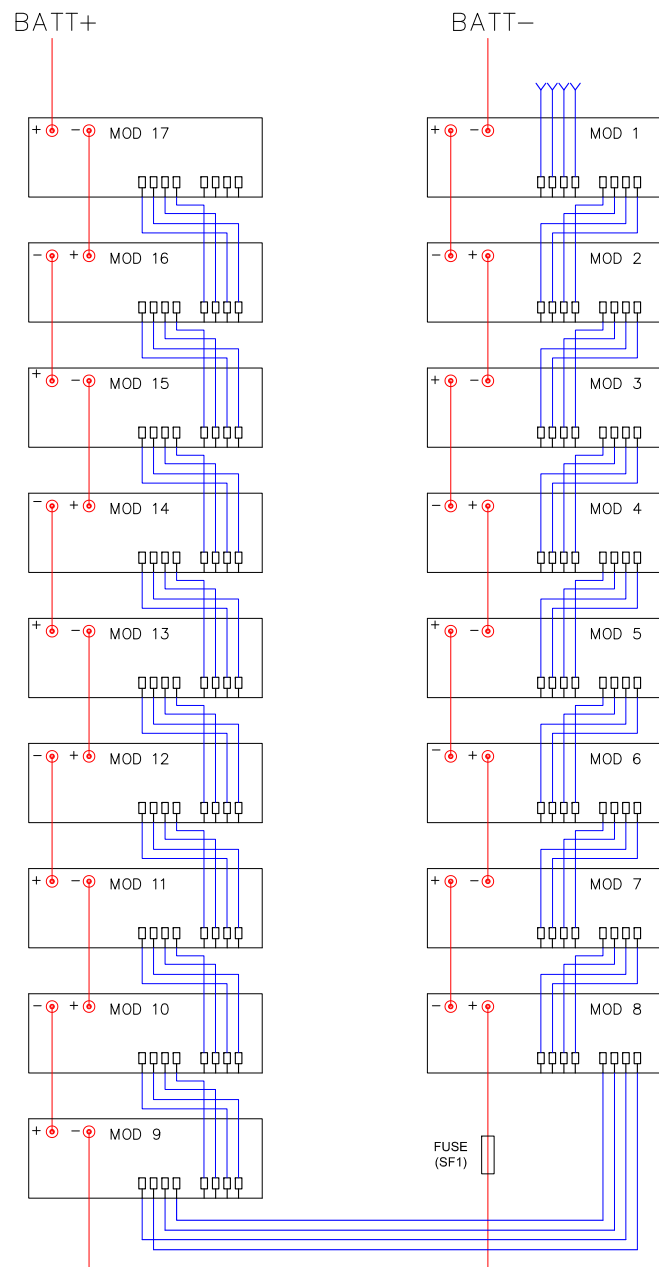
PROJECT: SUBMITTAL DRAWINGS

DWG NO:	LIBSESMGGVLEIC	
DRAWN:	TRASSIA	24-APR-25
ENGINEER:	SHERRY LE	29-APR-25
APPROVED:	PETER LIN	29-APR-25

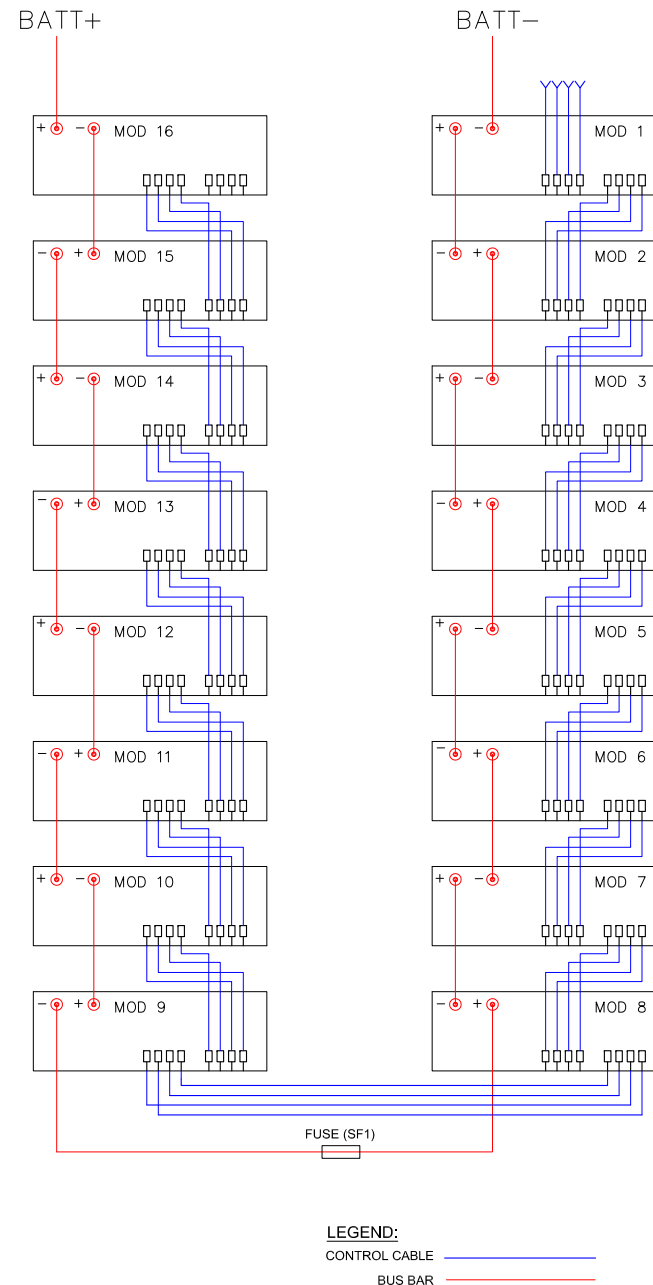
REV. 1

FIRST ANGLE PROJECTION

## 17 MODULES/STRING



## 16 MODULES/STRING



### LEGEND:

CONTROL CABLE —

BUS BAR —

### NOTES:

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**Schneider Electric**

### TITLE:

Galaxy Lithium-ion Battery cabinet, GVL IEC  
CABLING DIAGRAM

PROJECT: SUBMITTAL DRAWINGS SHEET 5 OF 10

### DWG NO:

LIBSESMGGVLIEC

### DRAWN:

TRASSIA

### ENGINEER:

SHERRY LE

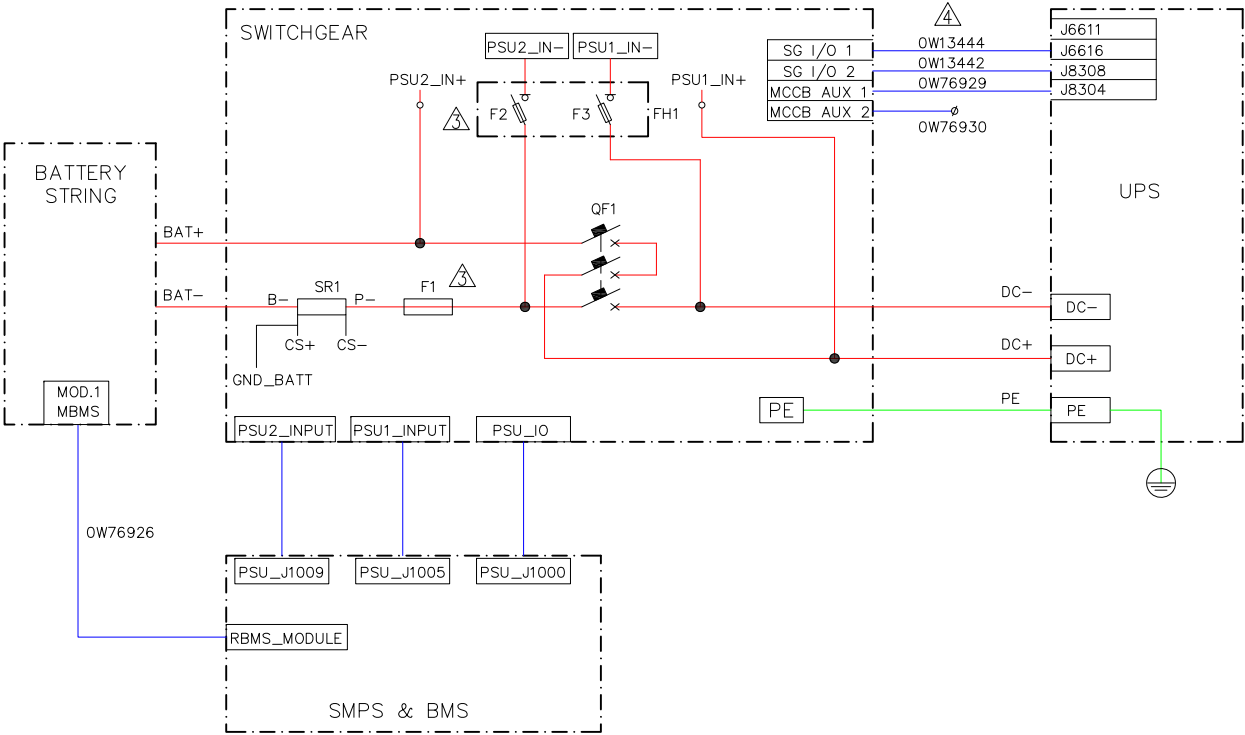
### APPROVED:

PETER LIN

### REV. 1

FIRST  
ANGLE  
PROJECTION

SYSTEM DIAGRAM



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

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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.
  - ⚠ 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.
  - ⚠ INSTALL THE TEMPERATURE SENSOR OM-1160 PROVIDED WITH THE UPS IN THE BATTERY ROOM.
  - ⚠ USE THE PROVIDED OW13442 TO CONNECT UPS BB\_TRIP CONTACT.
  - ⚠ USE THE PROVIDED OW76929 TO CONNECT MCCB AUX 1 TO UPS.
  - ⚠ USE THE PROVIDED OW76930 TO CONNECT MCCB AUX 2 CONTACT FOR LAST RACK IN A BANK.
  - ⚠ USE THE PROVIDED OW13444 TO CONNECT MAJOR AND MINOR FAULT CONTACTS.
  - ⚠ SHORT PIN 1 AND 3 IN J8308.
  11. THE SYSTEM BMS IS LOCATED IN BATTERY RACK 1 ONLY.

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Cable Tray Installation		Max Number of LIB Racks connected directly
UPS	Recommended Cable Size	
GVL	185mm <sup>2</sup> [350kcmil] (Positive, Negative, Ground)	8 Racks(*)

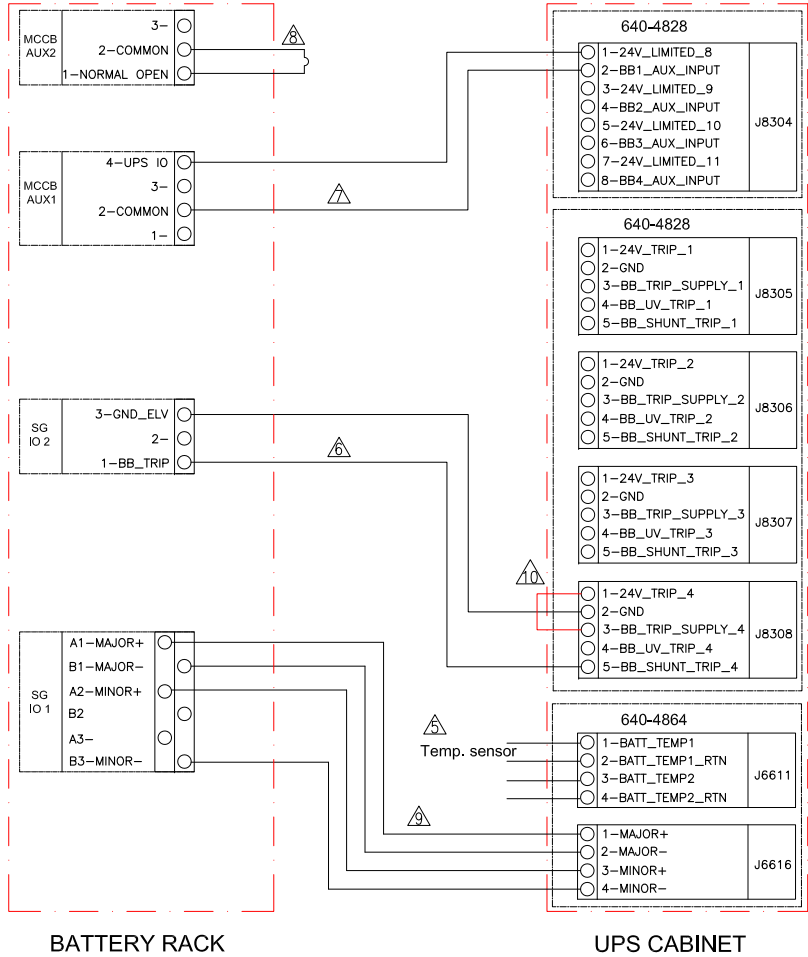
**TITLE:** Galaxy Lithium-ion Battery cabinet, GVL IEC SYSTEM DIAGRAM & INTERFACE DETAILS-1 RACK

**DWG NO:** LIBSESMGGVLI EC **REV.** 0

<b>DRAWN:</b> JAYAPRAKASH	29-APR-21	<b>FIRST ANGLE PROJECTION</b>
<b>ENGINEER:</b> FRED XIA	29-APR-21	
<b>APPROVED:</b> FRED XIA	29-APR-21	

**PROJECT:** SUBMITTAL DRAWINGS **SHEET 6 OF 10**

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

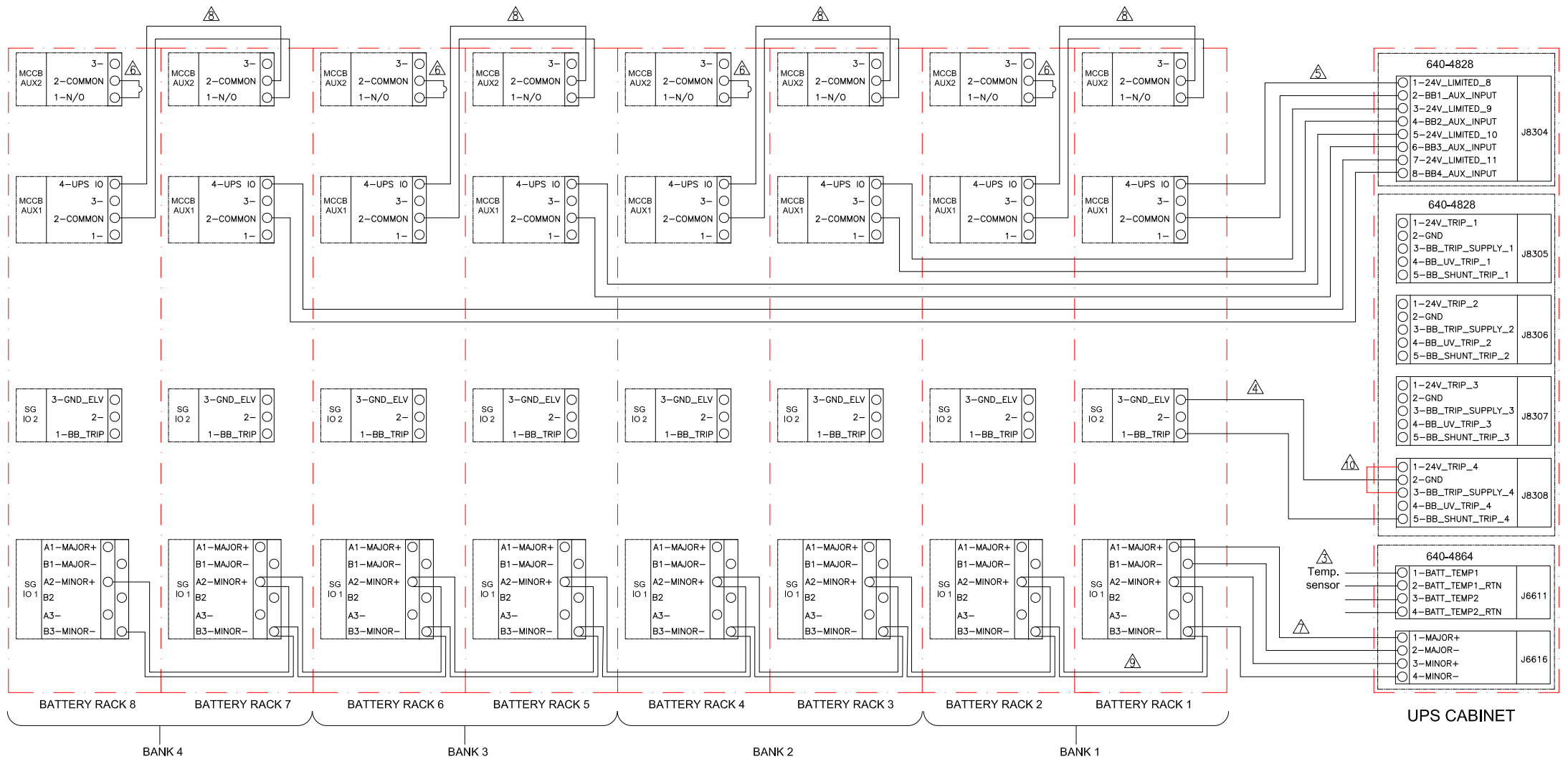


BATTERY RACK

UPS CABINET

\*Fuse is required when more than 8 Battery Racks are connected directly.  
(contact Application Engineering Team for more than 8 battery racks configuration)  
Li-ion Battery rack's short circuit rating RMS value is 2.9kA per rack and GVL limit is 30kA, the fuse protection shall cover the UPS short circuit limit.

INTERFACE DETAILS FOR GALAXY VL WHEN EIGHT BATTERY RACKS CONNECTED TO UPS



CONFIGURATION WITH 8 BATTERY RACKS (2 RACK/BANK) SHOWN FOR ILLUSTRATION

NOTES:

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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. SHORT PIN 1 AND 3 IN J8308.
11. THE SYSTEM BMS IS LOCATED IN BATTERY RACK 1 ONLY.

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TITLE:  
Galaxy Lithium-ion Battery cabinet, GVL IEC  
INTERFACE DETAILS-8 RACKS

PROJECT: SUBMITTAL DRAWINGS SHEET 7 OF 10

DWG NO: LIBSESMGGVLEIC

DRAWN: JAYAPRAKASH 29-APR-21

ENGINEER: FRED XIA 29-APR-21

APPROVED: FRED XIA 29-APR-21

REV. 0

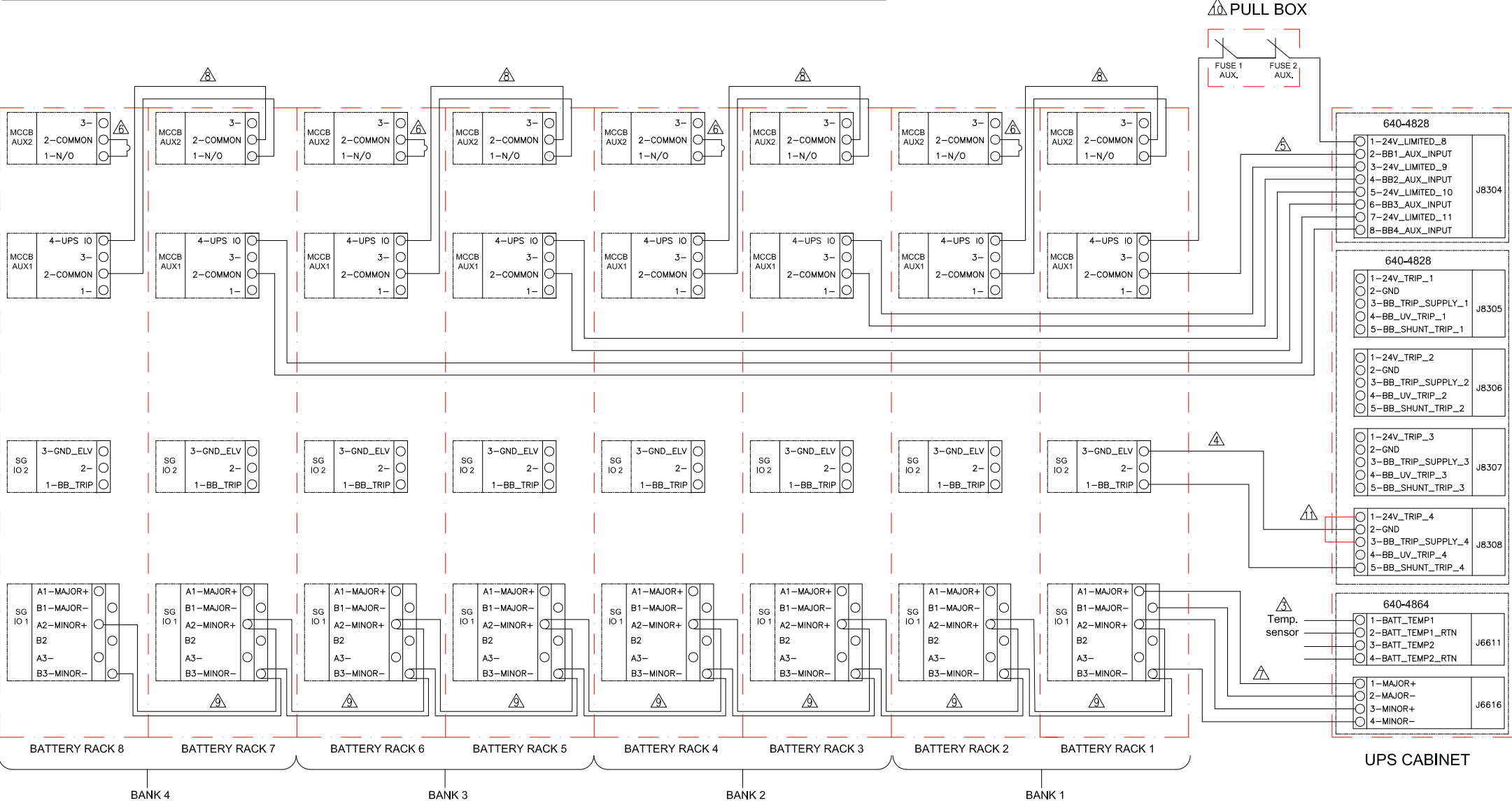
ANGLE

PROJECTION

N.A.



INTERFACE DETAILS FOR GALAXY VL WHEN 8 BATTERY RACKS CONNECTED TO FUSED PULL BOX & 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 MORE THAN 8 RACKS, PLEASE CONTACT APPLICATION ENGINEERING TEAM FOR THE REQUIRED CONNECTION METHODS (i.e. PULL BOX, FUSED PULL BOX AND etc)
  11. SHORT PIN 1 AND 3 IN J8308.
  12. THE SYSTEM BMS IS LOCATED IN BATTERY RACK 1 ONLY.

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TITLE:  
Galaxy Lithium-ion Battery cabinet, GVL IEC  
INTERFACE DETAILS-WITH PULL BOX

PROJECT: SUBMITTAL DRAWINGS SHEET 8 OF 10

DWG NO: LIBSESMGGVLEIC

DRAWN: JAYAPRAKASH 29-APR-21

ENGINEER: FRED XIA 29-APR-21

APPROVED: FRED XIA 29-APR-21

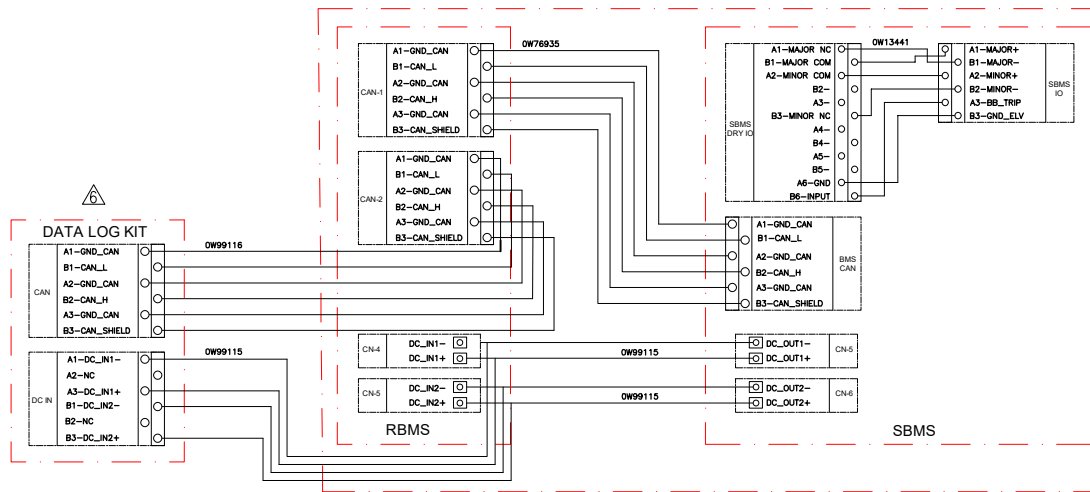
REV: 0

ANGLE PROJECTION N.A

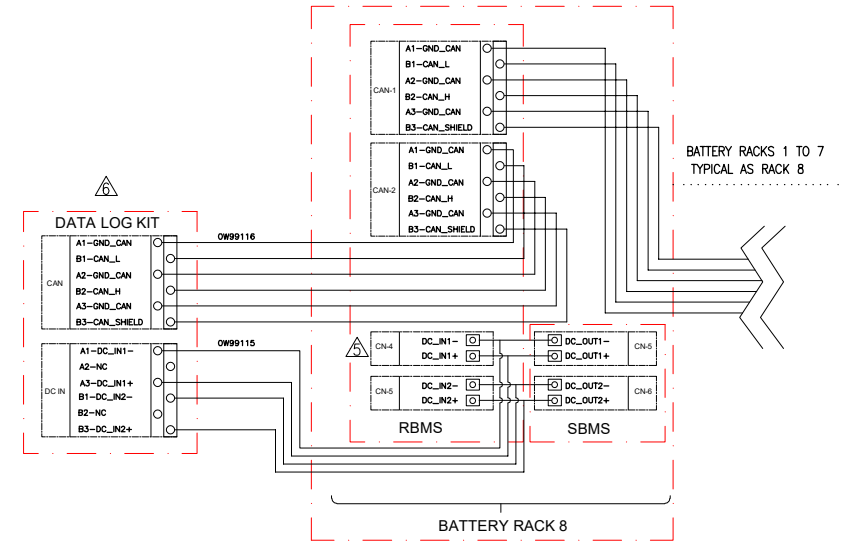


# BMS WIRING DETAILS FOR ONE BATTERY RACK

# BMS WIRING DETAILS UP TO EIGHT BATTERY RACKS WITH OPIONAL DATA KIT

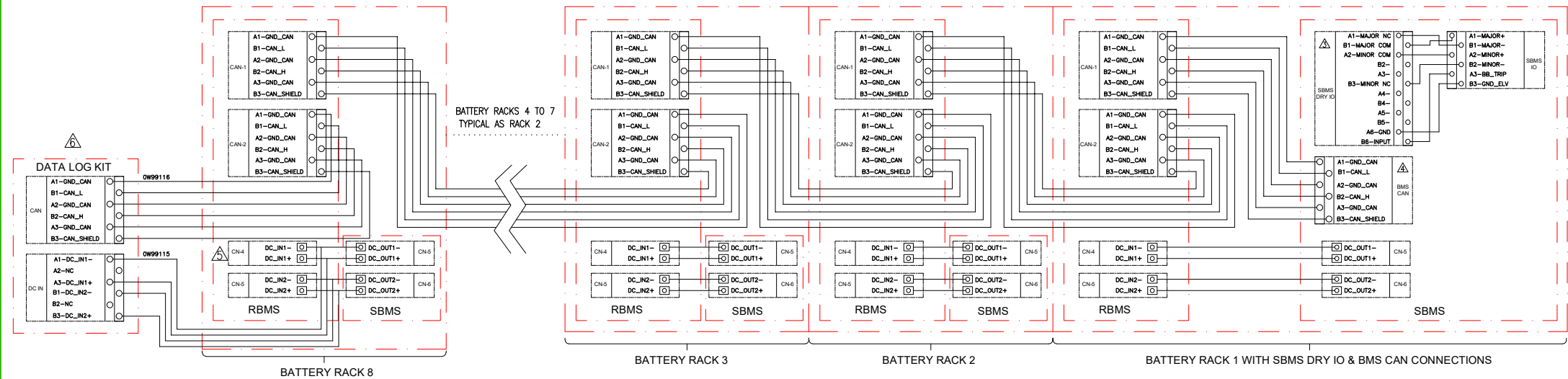


BATTERY RACK 1 WITH SBMS DRY IO & BMS CAN CONNECTIONS



BATTERY RACK 8

# BMS WIRING DETAILS UP TO EIGHT BATTERY RACKS



BATTERY RACK 8

BATTERY RACK 3

BATTERY RACK 2

BATTERY RACK 1 WITH SBMS DRY IO & BMS CAN CONNECTIONS

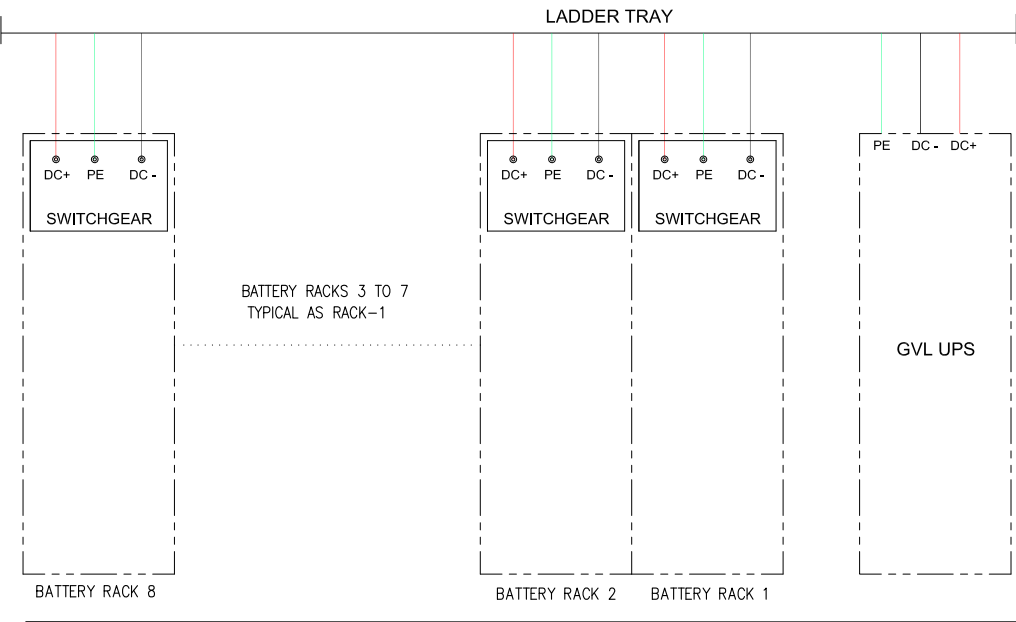
- NOTES:**
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  2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
  3. **SBMS DRY IO** IS CONNECTED IN BATTERY RACK 1 ONLY.
  4. **BMS CAN** IS CONNECTED IN BATTERY RACK 1 ONLY.
  5. SLIDE THE **CAN** BUS LOOP TERMINATION RESISTOR SWITCH TO **ON** POSITION IN THE LAST ONE BATTERY RACK.
  6. DATA LOG KIT IS OPTIONAL, THE KIT NUMBER IS LIBSEDATA8MSIEC, FOR MORE THAN ONE LIB CABINET CONNECTION DATA KIT MUST BE IN THE LAST RACK ONLY.

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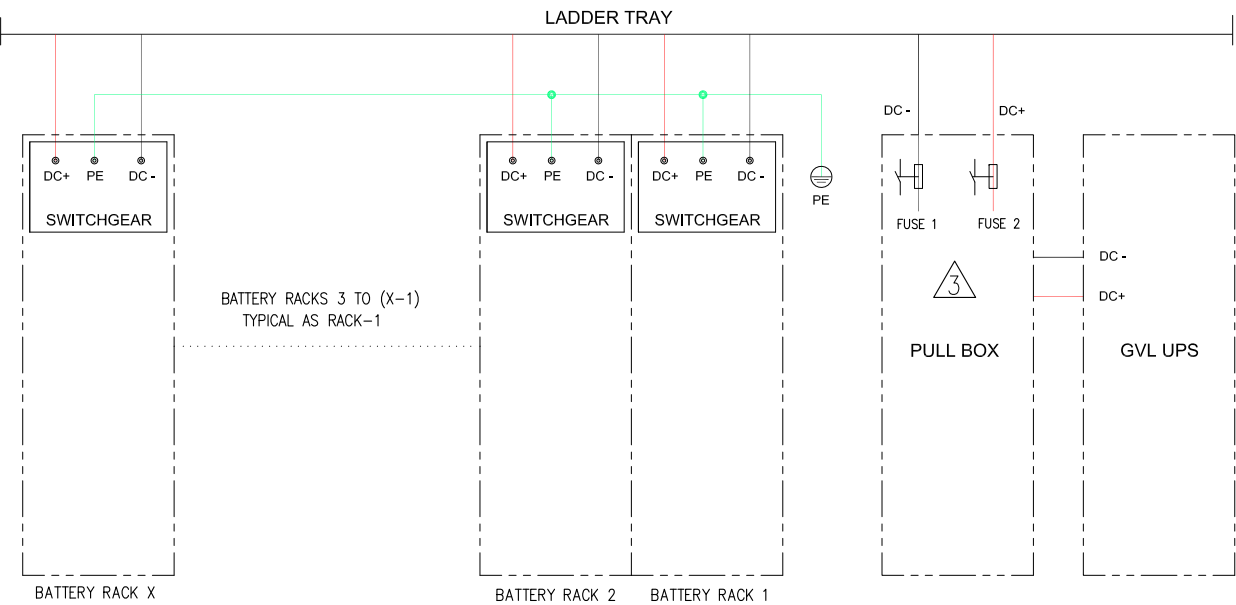
**Schneider Electric**

TITLE:	Galaxy Lithium-ion Battery cabinet, CVL IEC	DWG NO:	LIBSESMGGVLEIC	REV:	2
INTERFACE DETAILS-SBMS TO RBMS		DRAWN:	TRASSIA	13-MAY-25	ANGLE
		ENGINEER:	SHERRY LE	13-MAY-25	PROJECTION
PROJECT: SUBMITTAL DRAWINGS	SHEET 9 OF 10	APPROVED:	PETER LIN	13-MAY-25	N.A

SCHEMATIC DIAGRAM - POWER, FOR GALAXY VL WHEN 8 BATTERY RACKS CONNECTED WITH LADDER TRAY TO UPS



SCHEMATIC DIAGRAM - POWER, FOR GALAXY VL WHEN MORE THAN 8 BATTERY RACKS CONNECTED WITH LADDER TRAY & PULL BOX TO UPS



- NOTES:
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  2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
  3. 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, GVL IEC  
SCHEMATIC DIAGRAM

PROJECT: SUBMITTAL DRAWINGS

DWG NO: LIBSESMGGVLEIC

DRAWN: JAYAPRAKASH  
ENGINEER: FRED XIA  
APPROVED: FRED XIA

REV. 0

ANGLE  
PROJECTION  
N.A.

ELECTRICAL DATA

SKU Number/Model	LIBSESMG16IEC	LIBSESMG17IEC
Number of Battery Modules	16	17
Number of Type-A Battery Modules	8	8
Number of Type-B Battery Modules	8	9
Number of Battery cells in a string	128	136
Nominal Energy (kWh)	32.6	34.6
Nominal Battery Voltage (VDC)	486	517
Nominal capacity (Ah)	67	67
Charge current rate (CA rate)	0.7	0.7
Float charge Voltage (VDC)	537	571
End of discharge Voltage (VDC)	384	408
Maximum continuous discharge power (kW)	173	184
Peak current at end of discharge (A)	450	450
Short circuit rating RMS value (kA)	2.9	2.9

The recommended cable size is 185mm<sup>2</sup>/350kcmil

Galaxy VL LIB configuration

UPS Rating (kW)	Voltage (Vac)	Modules/string
200	380/400/415	16 or 17
250	380/400/415	16 or 17
300	380/400/415	16 or 17
350	380/400/415	16 or 17
400	380/400/415	16 or 17
450	380/400/415	16 or 17
500	380/400/415	16 or 17