

**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].  
TO OPTIMIZE THE LIFE OF BATTERY, IT IS RECOMMENDED TO MAINTAIN 25°C [77°F].
- △11. THIS INFORMATION PROVIDES APPROXIMATE CENTER OF GRAVITY CALCULATION.
12. 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
LIBSESMG13IEC	211 [465]	415 [915]	321.5 [12.66]	1031.5 [40.61]	311.2 [12.25]	317.8 [12.51]	1061.4 [41.79]	282.4 [11.12]
LIBSESMG16IEC		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]

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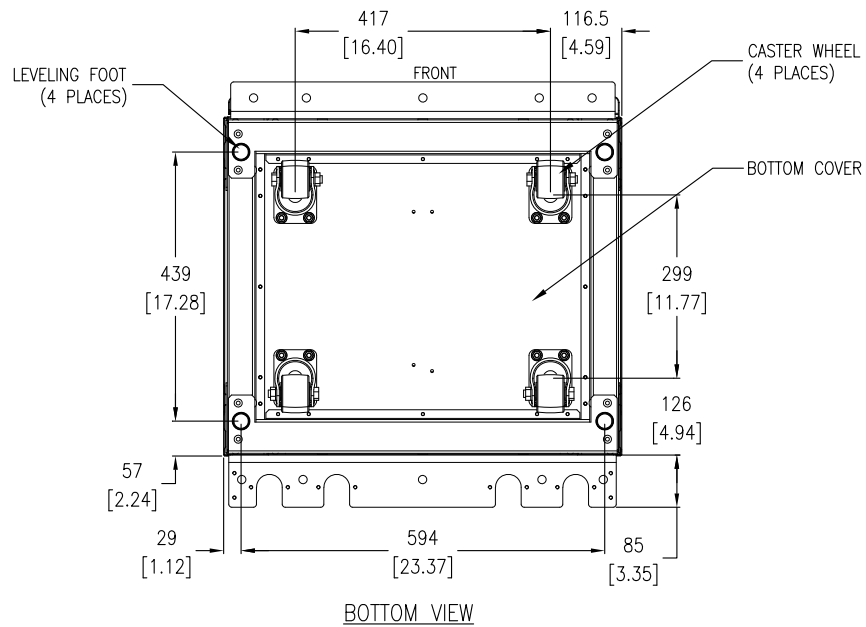
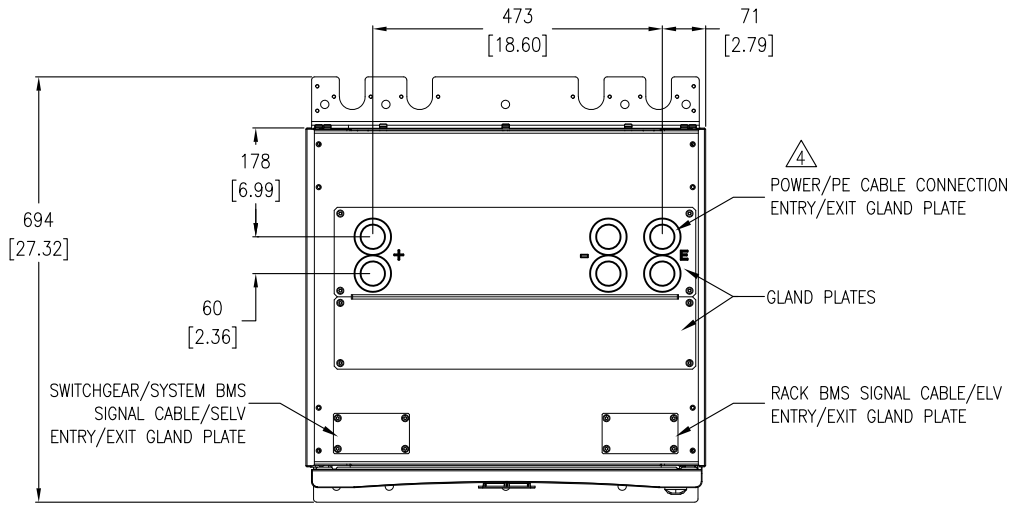
TITLE:  
Galaxy Lithium-ion Battery cabinet, GVS IEC  
GENERAL ARRANGEMENT

PROJECT: SUBMITTAL DRAWINGS SHEET 1 OF 10

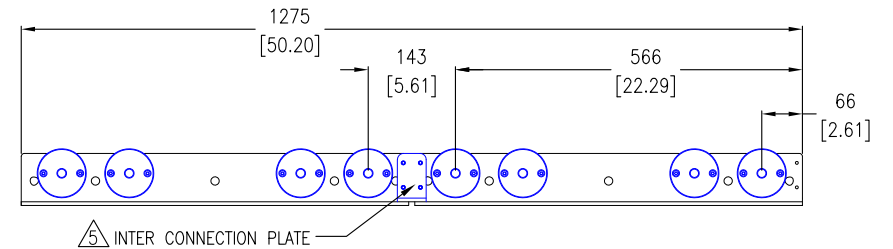
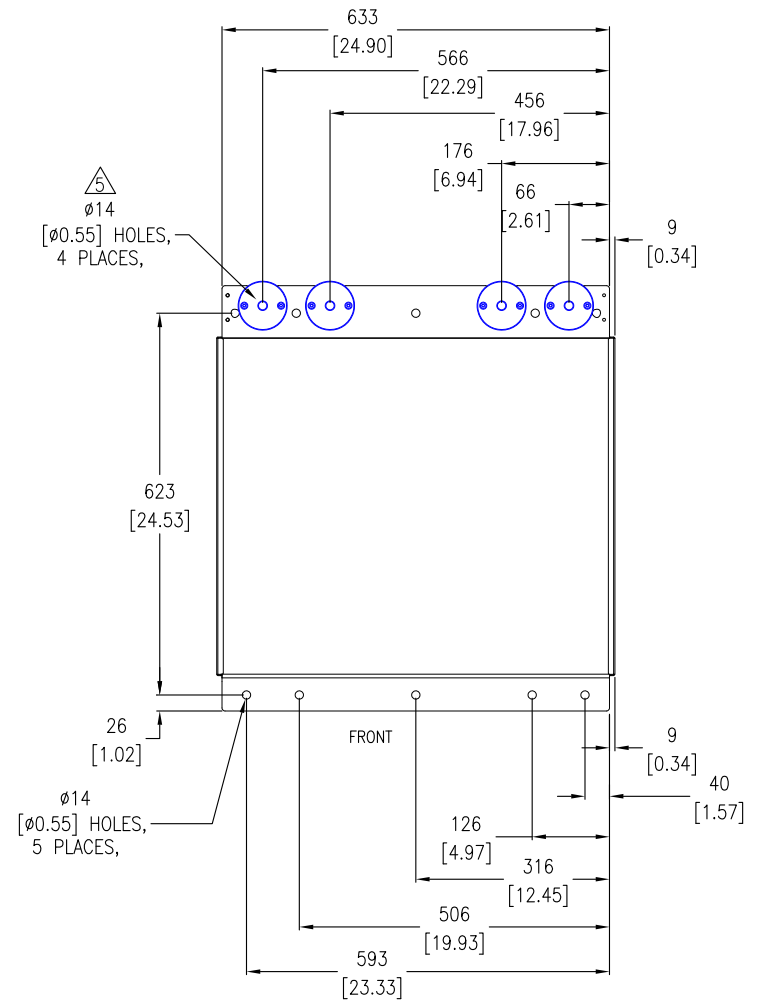
DWG NO: LIBSESMGGVSIEC  
DRAWN: JAYAPRAKASH  
ENGINEER: Fred XIA  
APPROVED: Rick ZHANG

REV: 0  
28-MAY-21  
02-JUN-21  
02-JUN-21

FIRST ANGLE PROJECTION



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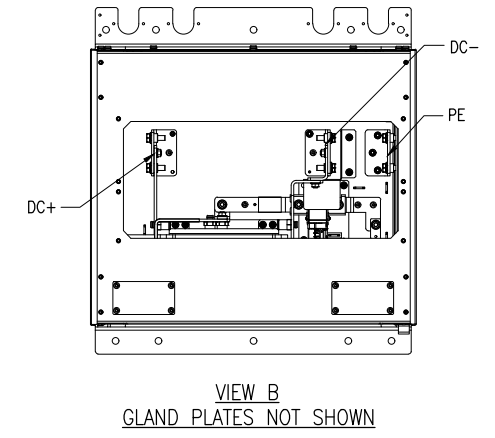
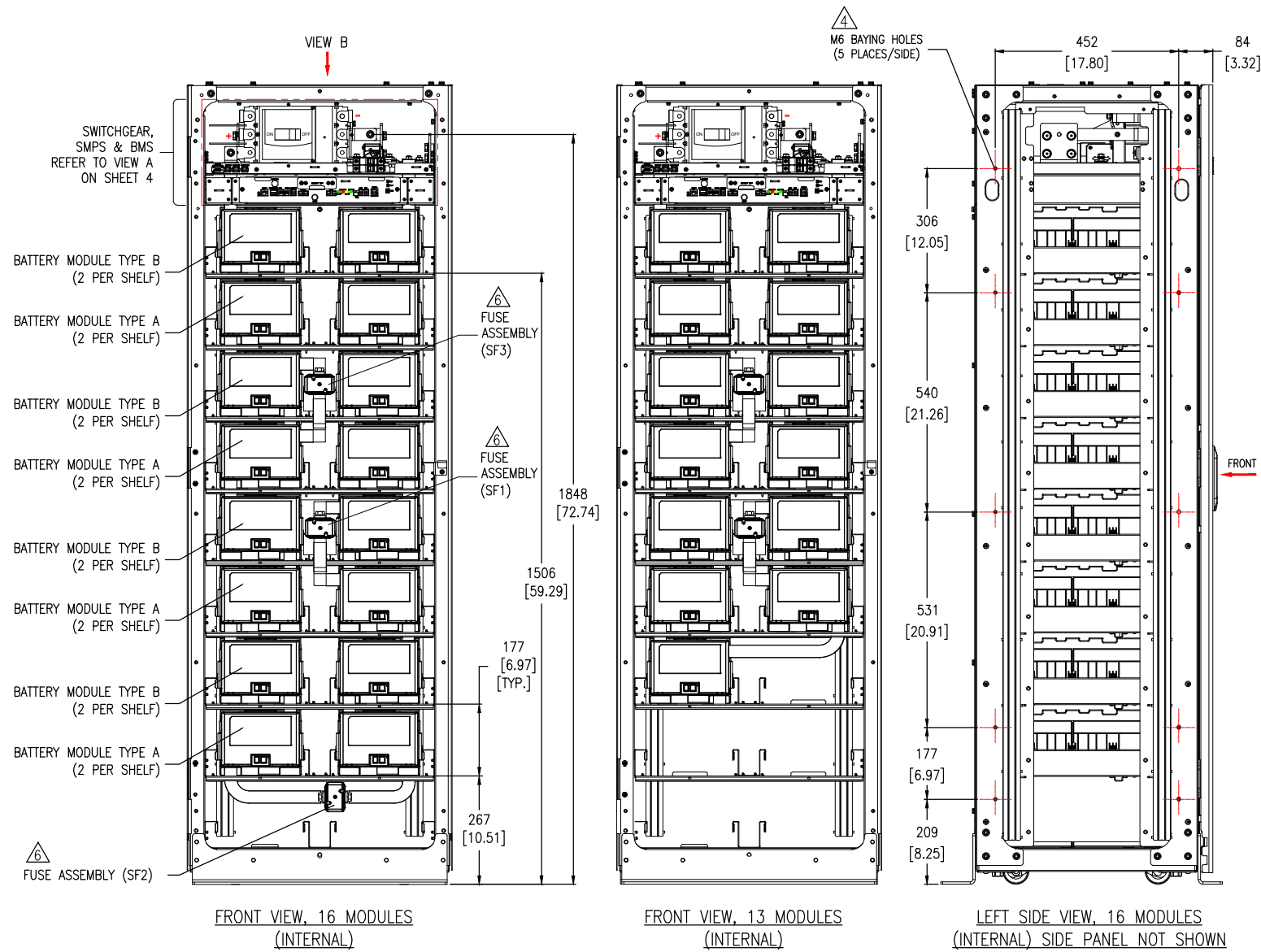
TITLE: Galaxy Lithium-ion Battery cabinet, GVS IEC  
TOP/BOTTOM VIEW & ANCHORING DETAILS

PROJECT: SUBMITTAL DRAWINGS SHEET 2 OF 10

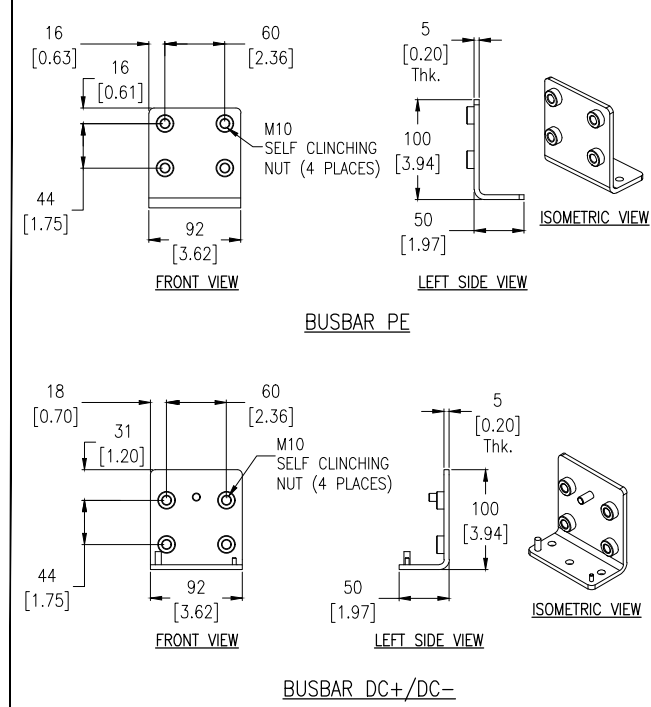
DWG NO: LIBSESMGGVSIEC  
DRAWN: JAYAPRAKASH  
ENGINEER: Fred XIA  
APPROVED: Rick ZHANG

28-MAY-21  
02-JUN-21  
02-JUN-21

REV: 0  
FIRST ANGLE PROJECTION



**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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  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.

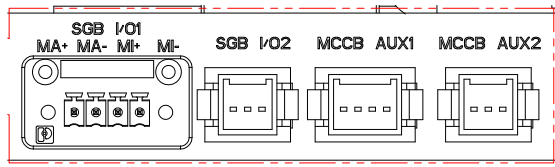
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TITLE:	Galaxy Lithium-ion Battery cabinet, GVS IEC INTERNAL VIEW		DWG NO:	LIBSESMGGVSIEC	REV.	1
PROJECT:	SUBMITTAL DRAWINGS	SHEET 3 OF 10	DRAWN:	RANJITHA	22-MAY-23	FIRST ANGLE PROJECTION
			ENGINEER:	SHERRY L E	24-MAY-23	
			APPROVED:	Rick ZHANG	24-MAY-23	

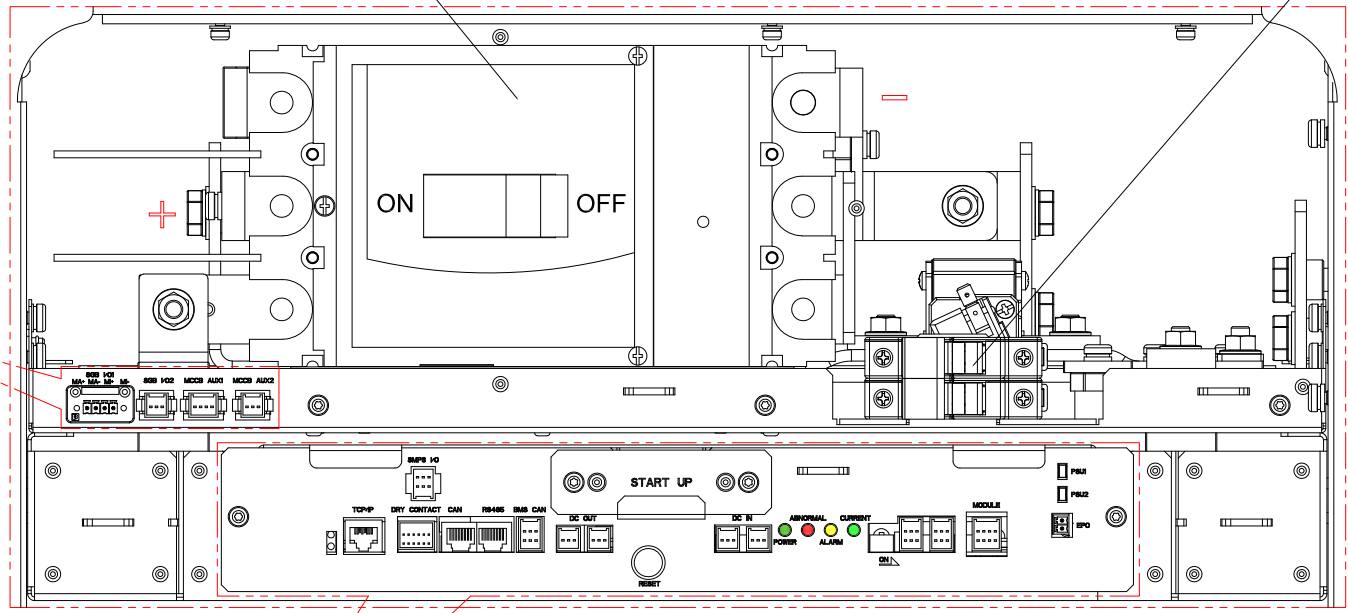
MCCB (Ui=750V; Ir=600A dc)

3 SMPS FUSES

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

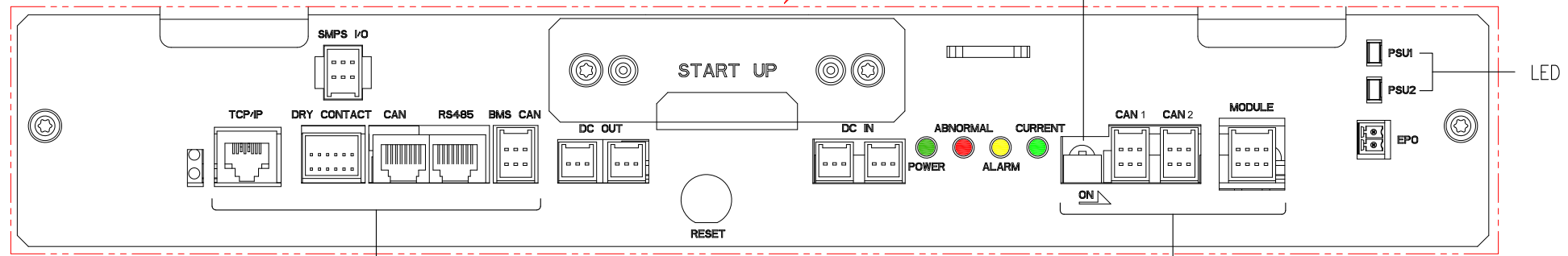


SWITCHGEAR PORTS



VIEW A (ENLARGED)  
SWITCHGEAR SMPS AND BMS

CAN BUS LOOP TERMINATION RESISTOR SWITCH



SYSTEM BMS PORTS

SMPS AND BMS

RACK BMS PORTS

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

- NOTES:
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  2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
  3. FUSE TYPE: LITTLEFUSE MPN 0SPF003.T OR EQUIVALENT WITH 3A 1000Vdc 20KAIC.
  4. THE SYSTEM BMS IS LOCATED IN RACK 1 ONLY.

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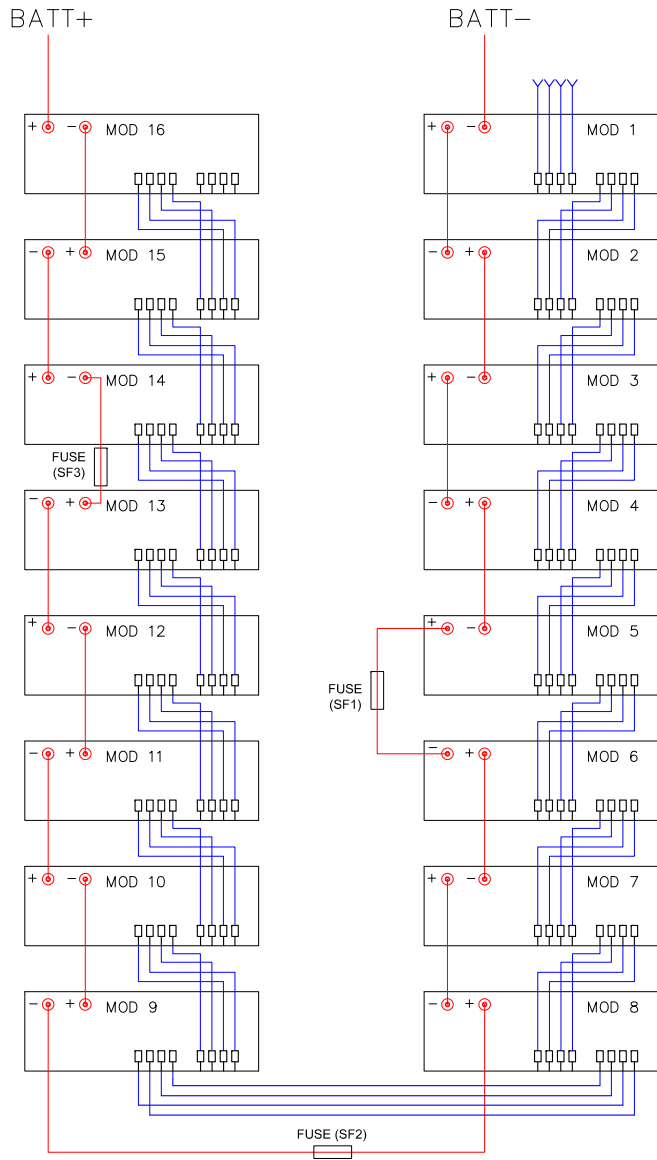


TITLE:  
Galaxy Lithium-ion Battery cabinet, GVS IEC  
DETAIL VIEWS

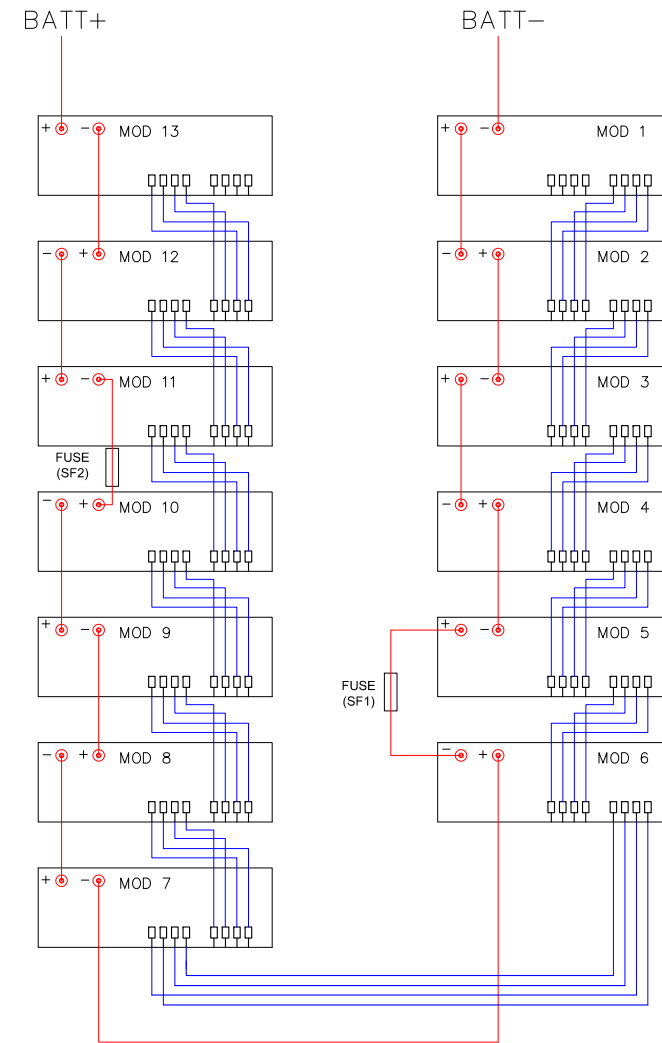
PROJECT: SUBMITTAL DRAWINGS SHEET 4 OF 10

DWG NO:	LIBSESMGGVSIEC	REV:	0
DRAWN:	JAYAPRAKASH	DATE:	28-MAY-21
ENGINEER:	Fred XIA	DATE:	02-JUN-21
APPROVED:	Rick ZHANG	DATE:	02-JUN-21
			FIRST ANGLE PROJECTION

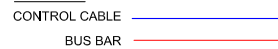
16 MODULES/STRING



13 MODULES/STRING



LEGEND:



- NOTES:
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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, GVS IEC  
CABLING DIAGRAM

PROJECT: SUBMITTAL DRAWINGS SHEET 5 OF 10

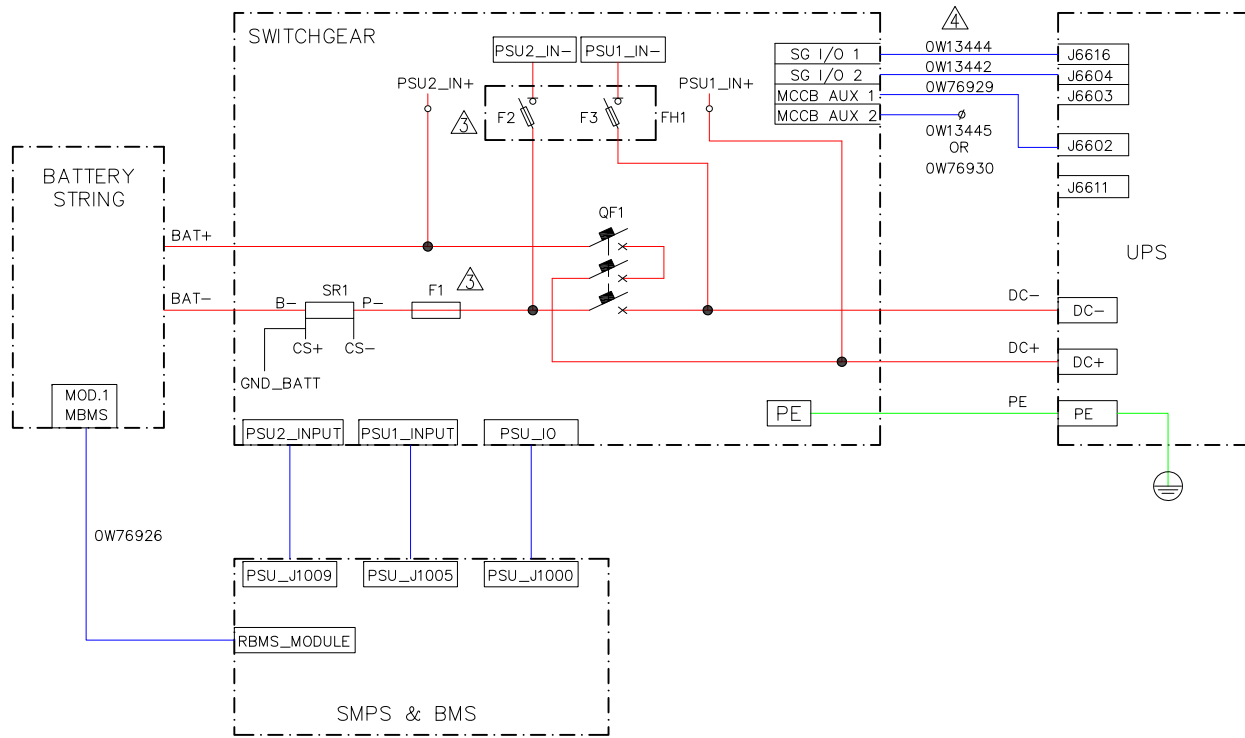
DWG NO: LIBSESMGGVSIEC

DRAWN: JAYAPRAKASH	28-MAY-21
ENGINEER: Fred XIA	02-JUN-21
APPROVED: Rick ZHANG	02-JUN-21

REV. 0

FIRST ANGLE PROJECTION

**SYSTEM DIAGRAM**



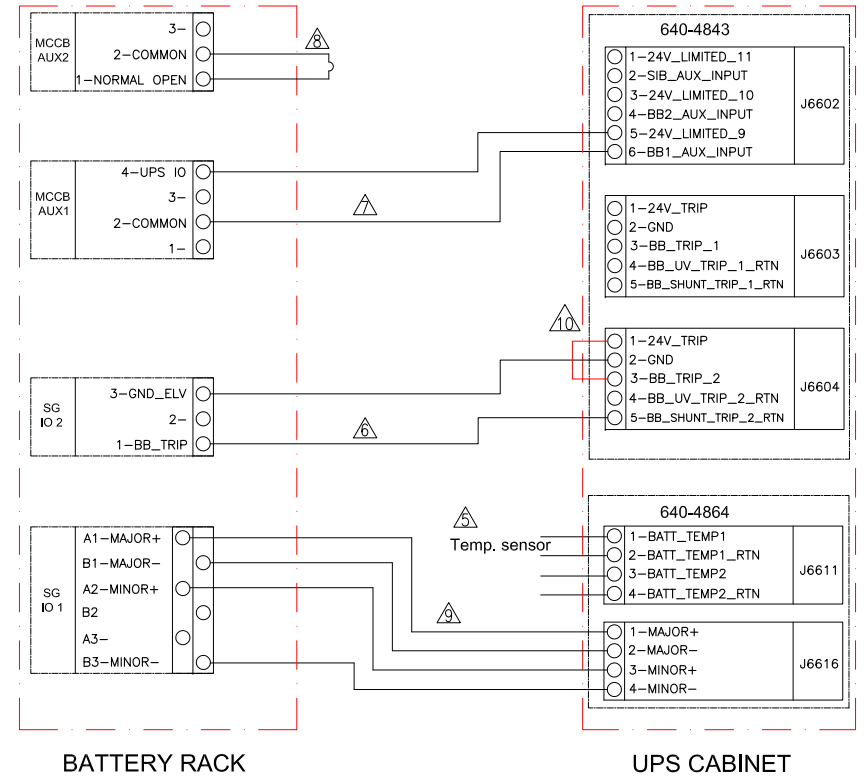
**LEGEND:**

CONTROL CABLE ————  
 POWER CABLE ————

**NOTES:**

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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.

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



UPS	Type of installation	Maximum number of Racks	Recommended Cable Size
GVS	Ladder tray	3	150mm <sup>2</sup> [300 kcmil]

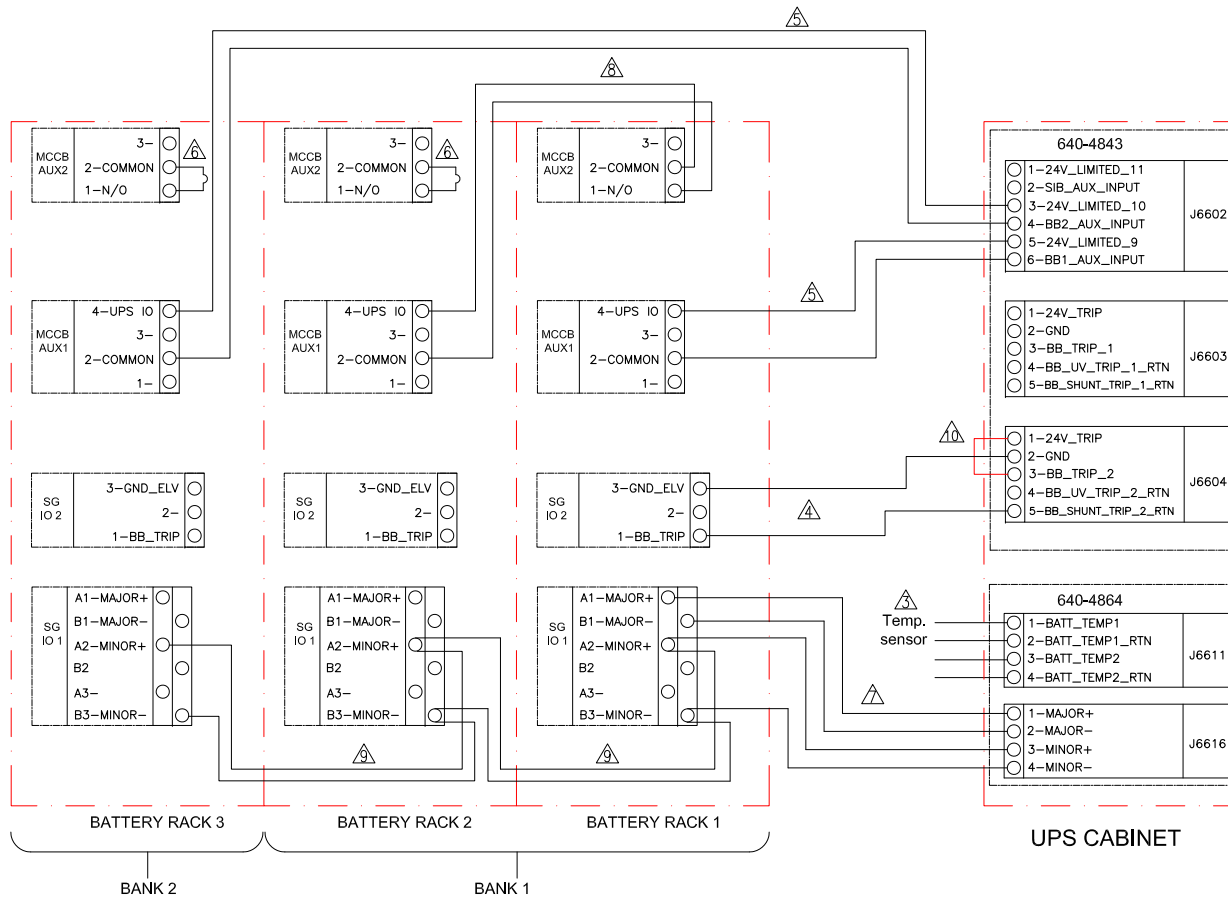
For 4 Racks and above, a fuse is required. Li-ion Battery Rack's short circuit RMS value is 2.9kA per Rack and GVS limit is 10kA. The fuse protection shall cover the UPS short circuit limit.

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TITLE: Galaxy Lithium-ion Battery cabinet, GVS IEC SYSTEM DIAGRAM & INTERFACE DETAILS-1 RACK		DWG NO: <b>LIBSESMGGVSIEC</b>		REV: <b>0</b>
PROJECT: SUBMITTAL DRAWINGS	SHEET 6 OF 10	DRAWN: JAYAPRAKASH	28-MAY-21	FIRST ANGLE
		ENGINEER: Fred XIA	02-JUN-21	PROJECTION
		APPROVED: Rick ZHANG	02-JUN-21	

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



CONFIGURATION WITH 3 BATTERY RACKS SHOWN FOR ILLUSTRATION

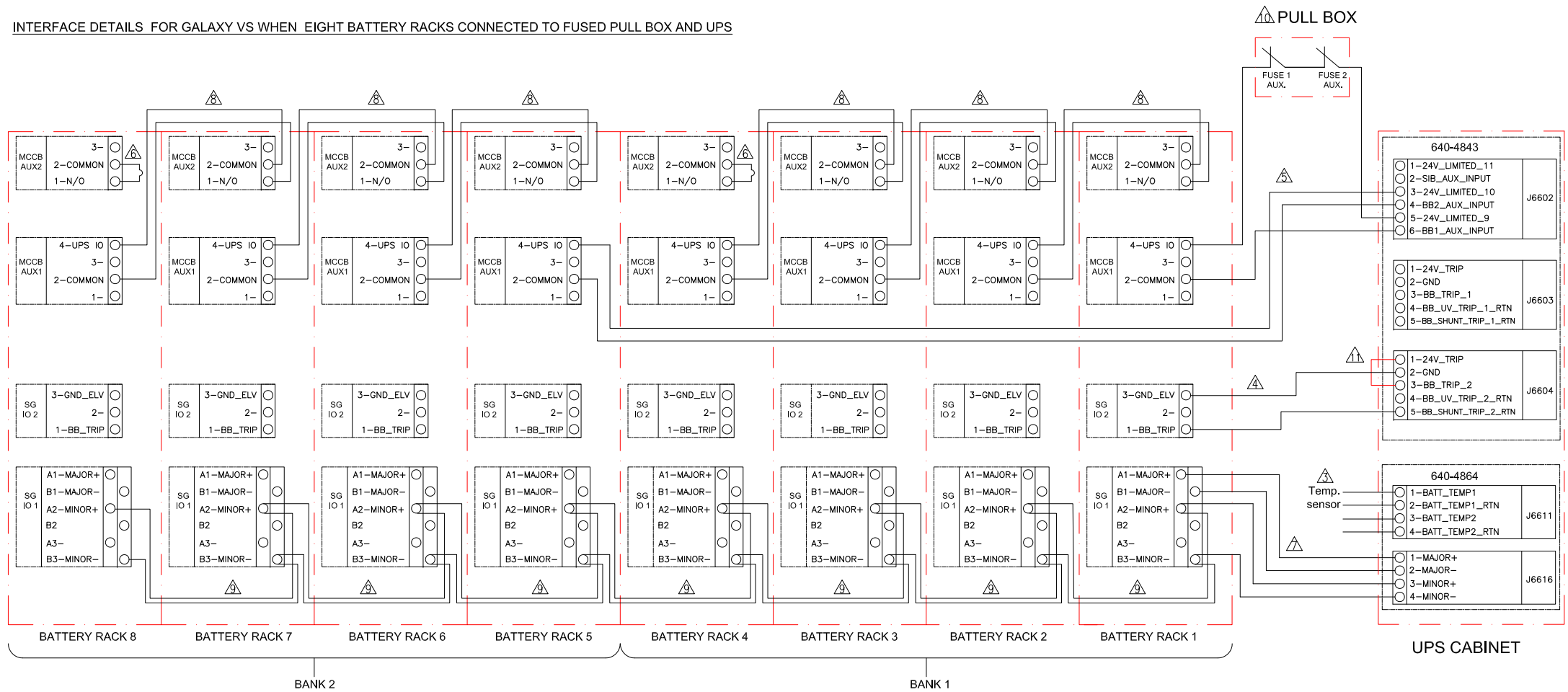
- NOTES:
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  2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
  - △3. INSTALL THE TEMPERATURE SENSOR OM-1160 PROVIDED WITH THE UPS IN THE BATTERY ROOM.
  - △4. USE THE PROVIDED OW13442 TO CONNECT 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. 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 IEC INTERFACE DETAILS-3 RACKS		DWG NO:	LIBSESMGGVSIEC	REV:	0
PROJECT: SUBMITTAL DRAWINGS	SHEET 7 OF 10	ENGINEER:	Fred XIA	28-MAY-21	ANGLE	PROJECTION
		APPROVED:	Rick ZHANG	02-JUN-21	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:**
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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. 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.

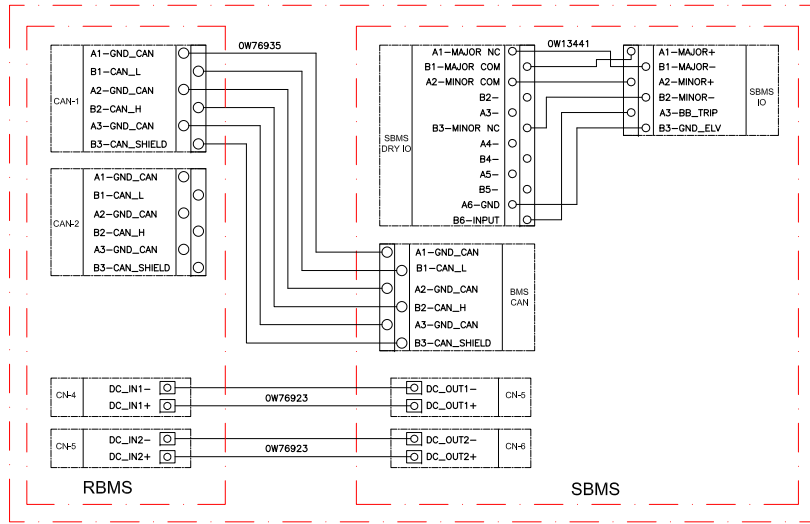
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TITLE:	Galaxy Lithium-ion Battery cabinet, GVS IEC INTERFACE DETAILS-WITH PULL BOX	DWG NO:	LIBSESMGGVSIEC	REV:	0
PROJECT:	SUBMITTAL DRAWINGS SHEET 8 OF 10	DRAWN:	JAYAPRAKASH	28-MAY-21	ANGLE PROJECTION
		ENGINEER:	Fred XIA	02-JUN-21	N.A
		APPROVED:	Rick ZHANG	02-JUN-21	

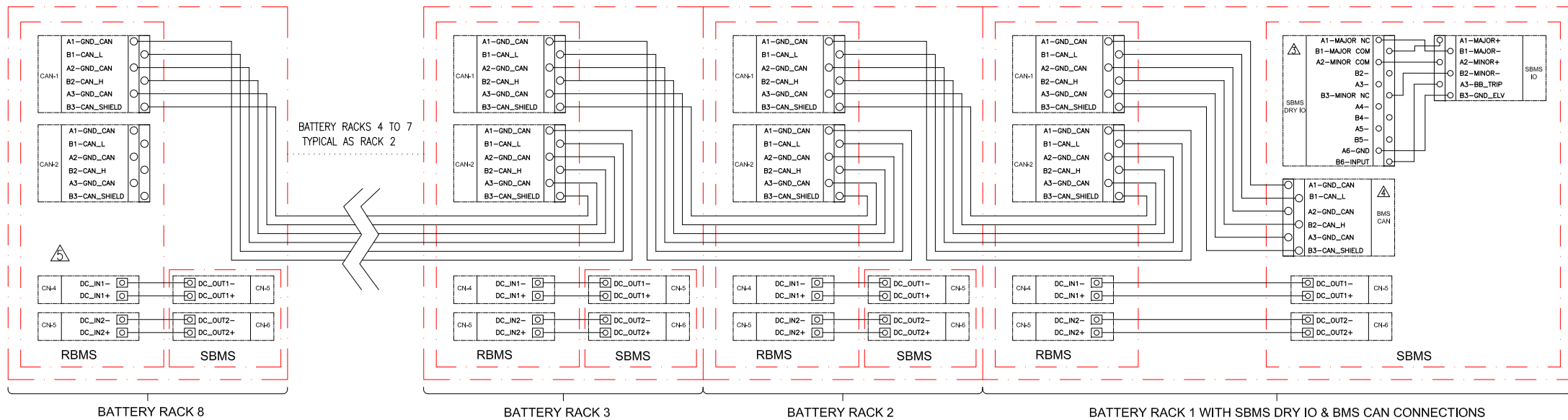


BMS WIRING DETAILS FOR ONE BATTERY RACK



BATTERY RACK 1 WITH SBMS DRY IO & BMS CAN CONNECTIONS

BMS WIRING DETAILS UP TO EIGHT BATTERY RACKS



NOTES:

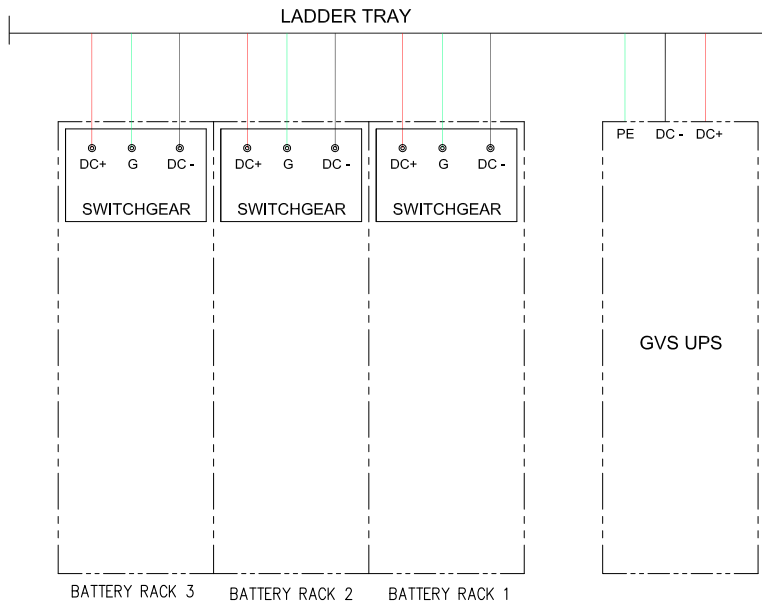
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2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- △ 3. SBMS DRY IO IS CONNECTED IN BATTERY RACK 1 ONLY.
- △ 4. BMS CAN IS CONNECTED IN BATTERY RACK 1 ONLY.
- △ 5. SLIDE THE CAN BUS LOOP TERMINATION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

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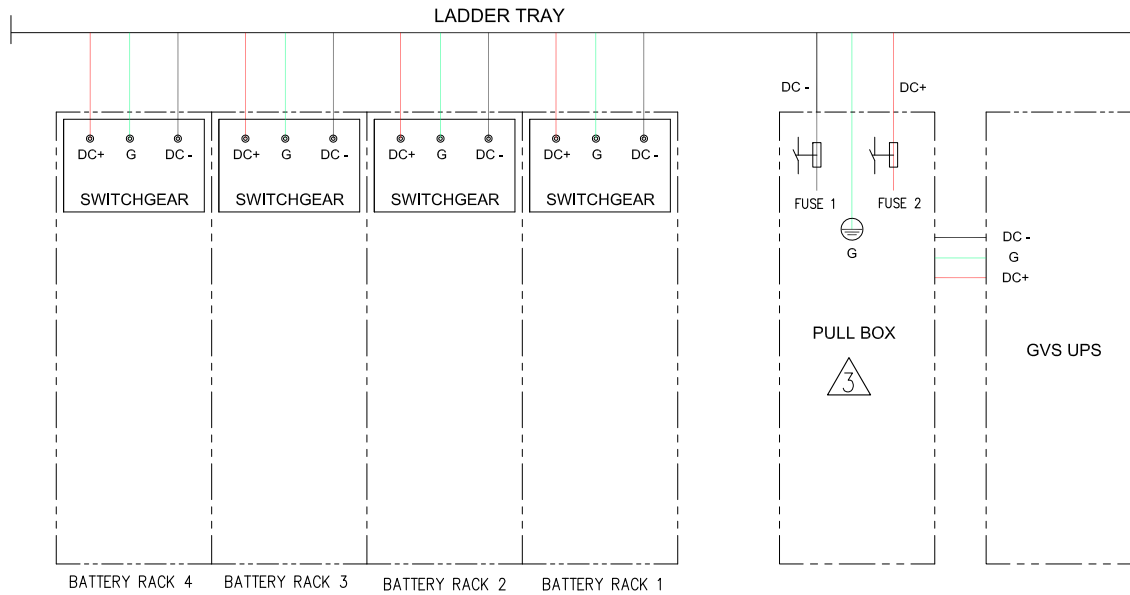
TITLE:	Galaxy Lithium-ion Battery cabinet, GVS IEC INTERFACE DETAILS-SBMS TO RBMS		DWG NO:	LIBSESMGGVSIEC	REV.	0
PROJECT:	SUBMITTAL DRAWINGS	SHEET 9 OF 10	DRAWN:	JAYAPRAKASH	28-MAY-21	ANGLE PROJECTION
			ENGINEER:	Fred XIA	02-JUN-21	N.A.
			APPROVED:	Rick ZHANG	02-JUN-21	

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



ELECTRICAL DATA		
SKU Number/Model	LIBSESMG13IEC	LIBSESMG16IEC
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 recommended cable size is 150mm <sup>2</sup> [300kcmil]		

**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
380/400/415	20	13/16
	30	13/16
	40	13/16
	50	16
	60	16
	80	13/16
	100	16
	120	16
150	16	

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  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:	DWG NO: LIBSESMGGVSIEC		REV. 0
Galaxy Lithium-ion Battery cabinet, GVS IEC SCHEMATIC DIAGRAM	DRAWN: JAYAPRAKASH	28-MAY-21	ANGLE PROJECTION N.A
PROJECT: SUBMITTAL DRAWINGS SHEET 10 OF 10	ENGINEER: Fred XIA	02-JUN-21	
	APPROVED: Rick ZHANG	02-JUN-21	