

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
LIBSESMG17IEC	211 [465]	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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Schneider Electric

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

PROJECT: SUBMITTAL DRAWINGS SHEET 1 OF 10

DWG NO: LIBSESMGGVMIEC

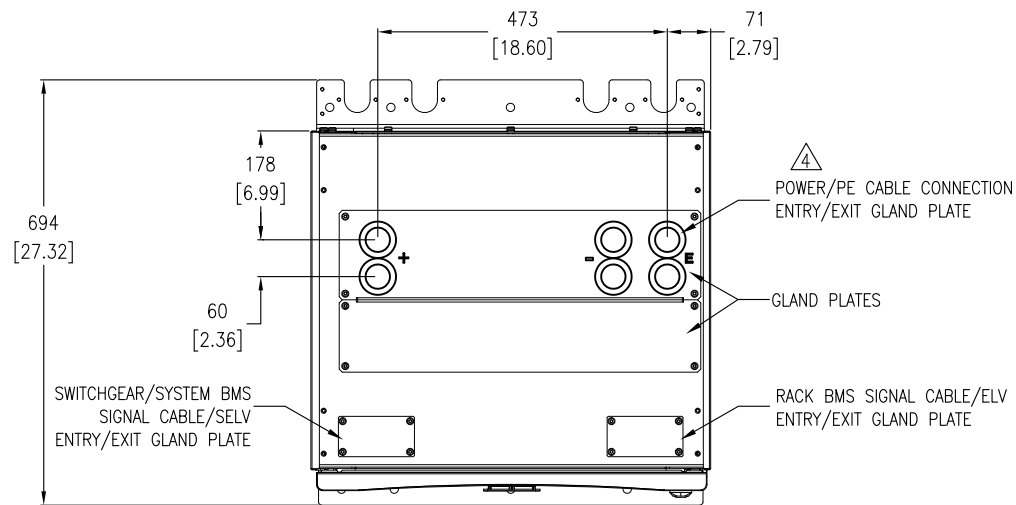
DRAWN: JAYAPRAKASH 27-MAY-21

ENGINEER: Fred XIA 02-JUN-21

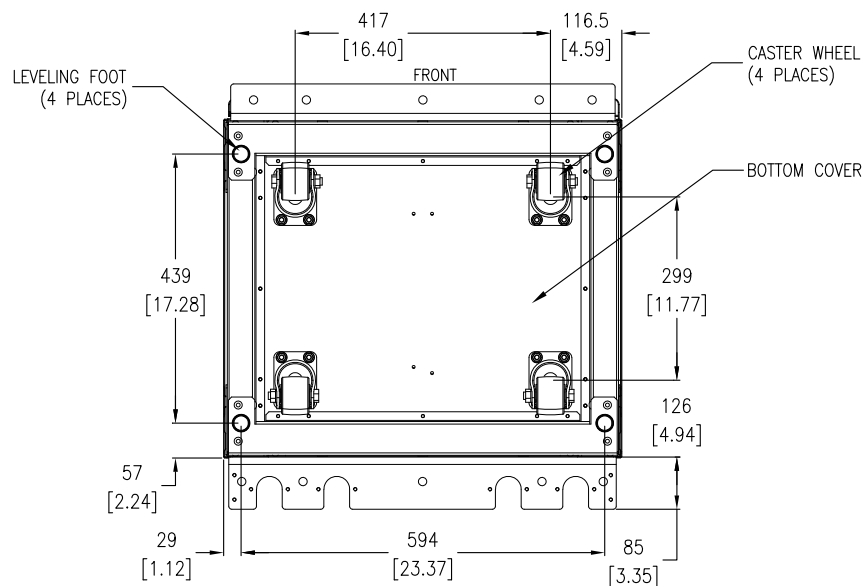
APPROVED: Rick ZHANG 02-JUN-21

REV. 0

FIRST ANGLE PROJECTION

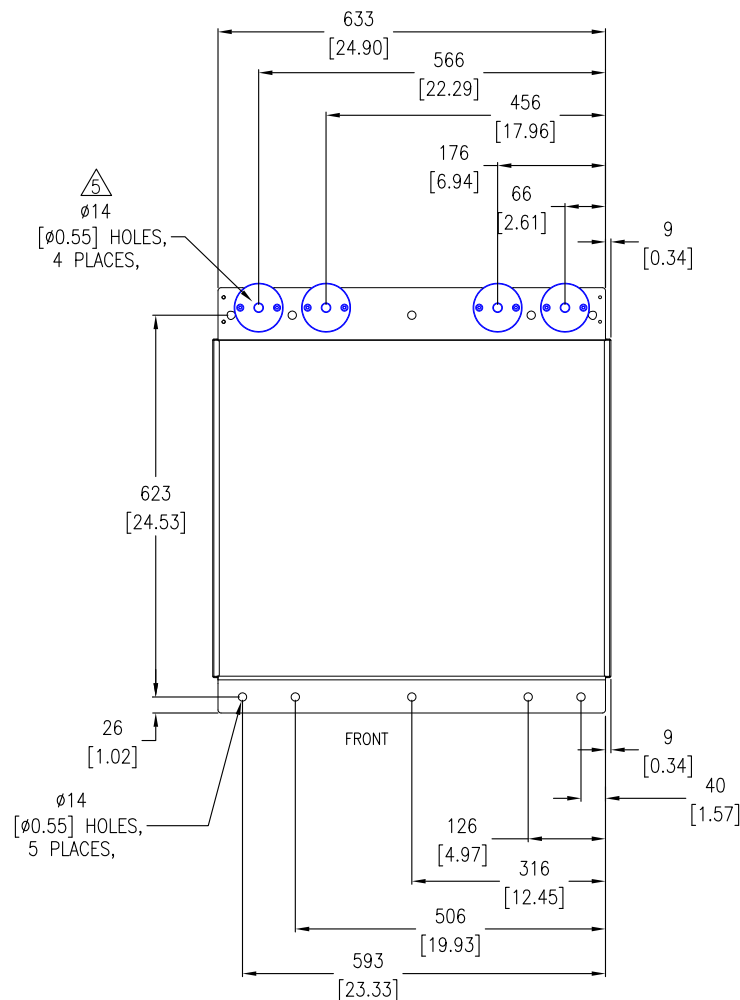


FRONT
TOP VIEW

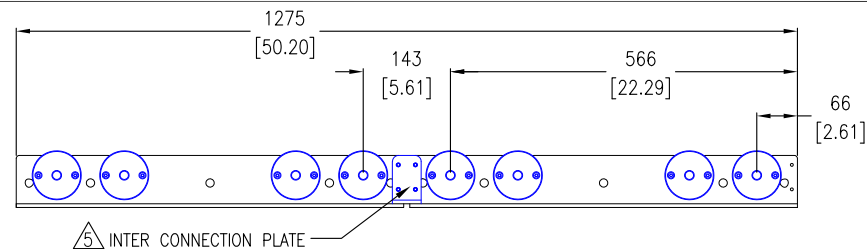


BOTTOM VIEW

- 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.



SEISMIC ANCHORING DETAILS - 1 BATTERY RACK



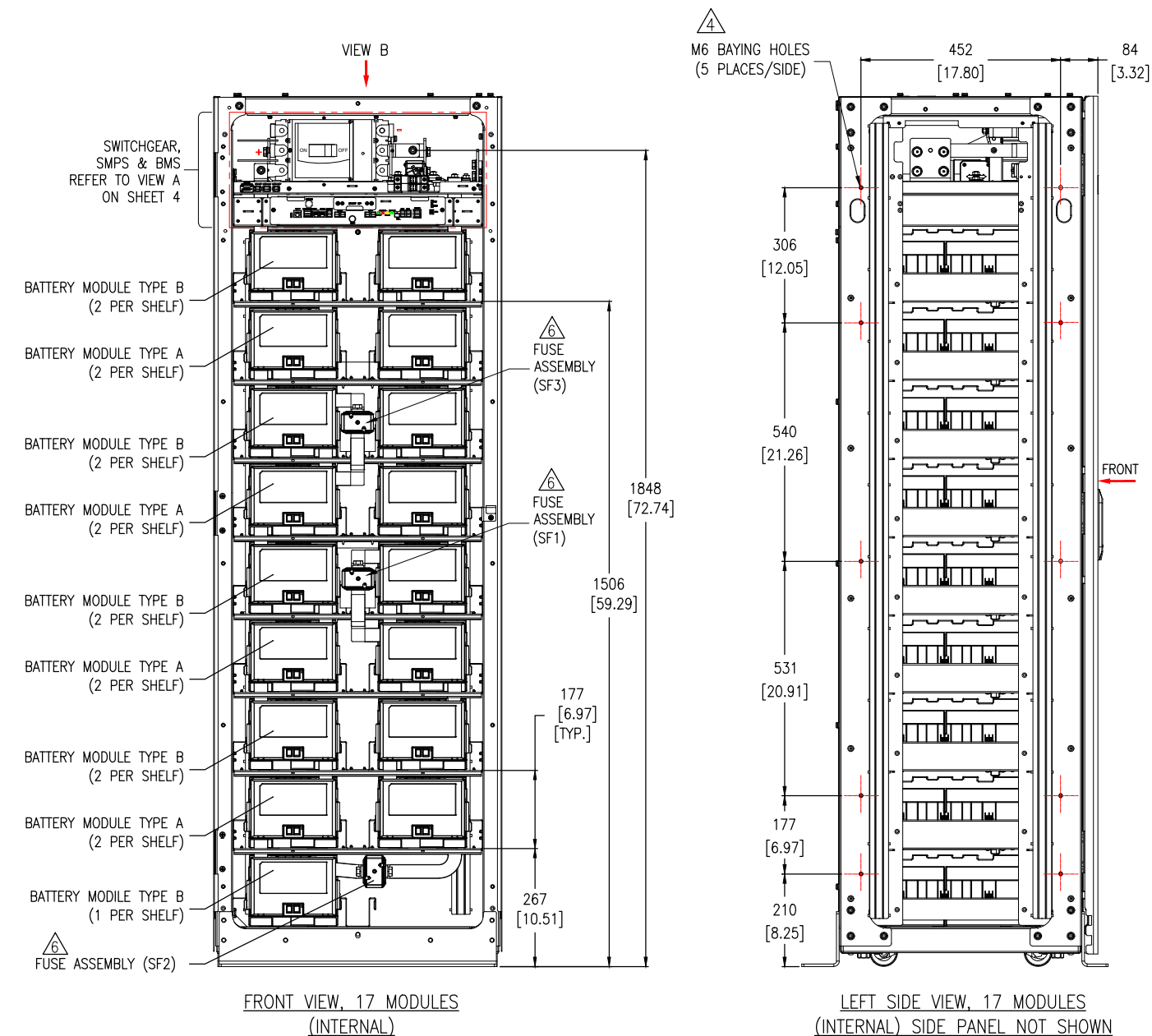
SEISMIC ANCHORING DETAILS FOR MORE THAN ONE BATTERY RACK

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Schneider Electric

TITLE:
Galaxy Lithium-ion Battery cabinet, GVM IEC
TOP/BOTTOM VIEW & ANCHORING DETAILS
PROJECT: SUBMITTAL DRAWINGS SHEET 2 OF 10

DWG NO: LIBSESMGGVMIEC
DRAWN: JAYAPRAKASH
ENGINEER: Fred XIA
APPROVED: Rick ZHANG
27-MAY-21
02-JUN-21
02-JUN-21
REV. 0
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. 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, GVM IEC
INTERNAL VIEW

PROJECT: SUBMITTAL DRAWINGS SHEET 3 OF 10

DWG NO: LIBSESMGGVMIEC

DRAWN: RANJITHA 22-MAY-23

ENGINEER: SHERRY L E 24-MAY-23

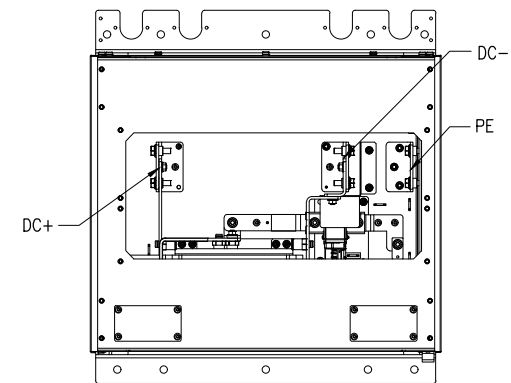
APPROVED: Rick ZHANG 24-MAY-23

REV. 1

FIRST

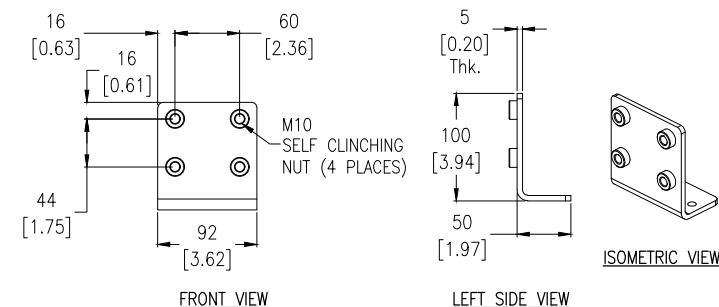
ANGLE

PROJECTION

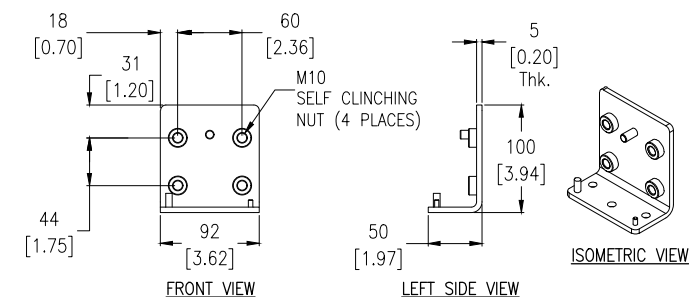


VIEW B
GLAND PLATES NOT SHOWN

BUSBAR DETAILS



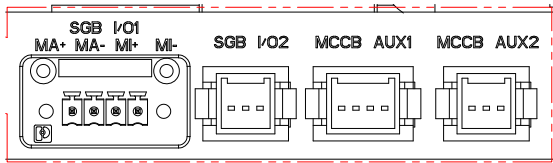
BUSBAR PE



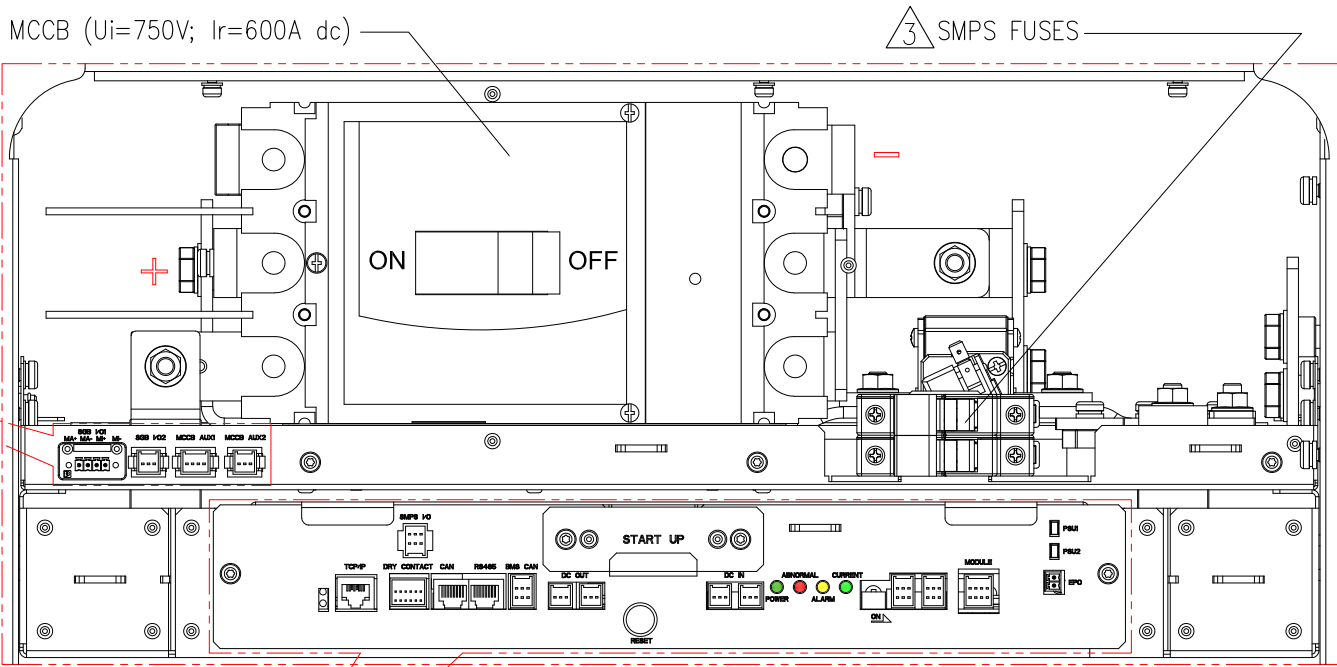
BUSBAR DC+/DC-

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

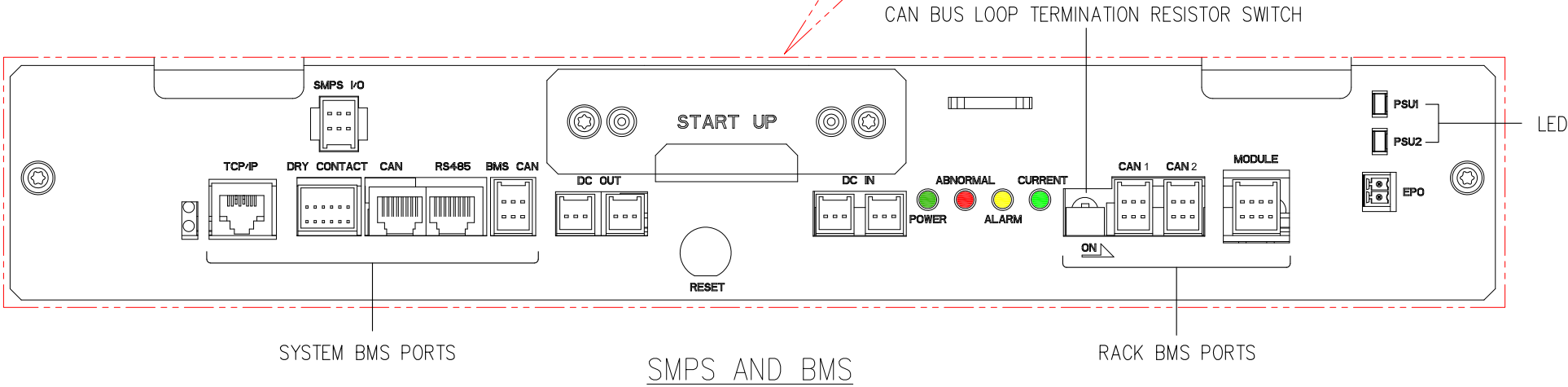
MCCB SETTINGS:
Im = 1500A
APPLY TO ALL CONFIGURATIONS.



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 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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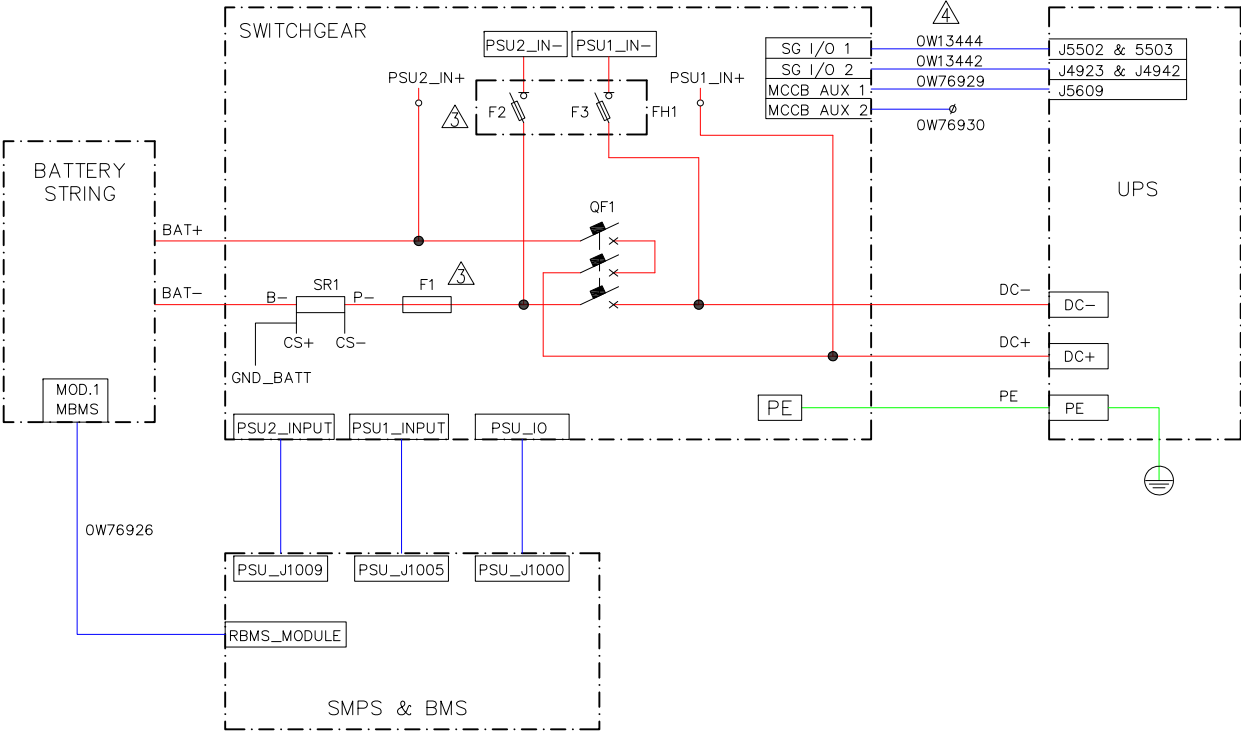


TITLE:
Galaxy Lithium-ion Battery cabinet, GVM IEC
DETAIL VIEWS

PROJECT: SUBMITTAL DRAWINGS SHEET 4 OF 10

DWG NO:	LIBSESMGGVMIEC	REV.	0
DRAWN:	JAYAPRAKASH	27-MAY-21	FIRST
ENGINEER:	Fred XIA	02-JUN-21	ANGLE
APPROVED:	Rick ZHANG	02-JUN-21	PROJECTION

SYSTEM DIAGRAM



LEGEND:
CONTROL CABLE
POWER CABLE

- 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. F1 FUSE TYPE: Merson MPN PC33UD69V500A or LITTLEFUSE MPN PSR033DS0500X WITH 500A 600Vdc 100KAIC.
F2 & F3 FUSE TYPE: LITTLEFUSE MPN 0SPF003.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.

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TITLE:
Galaxy Lithium-ion Battery cabinet, GVM IEC
SYSTEM/CABLING DIAGRAM

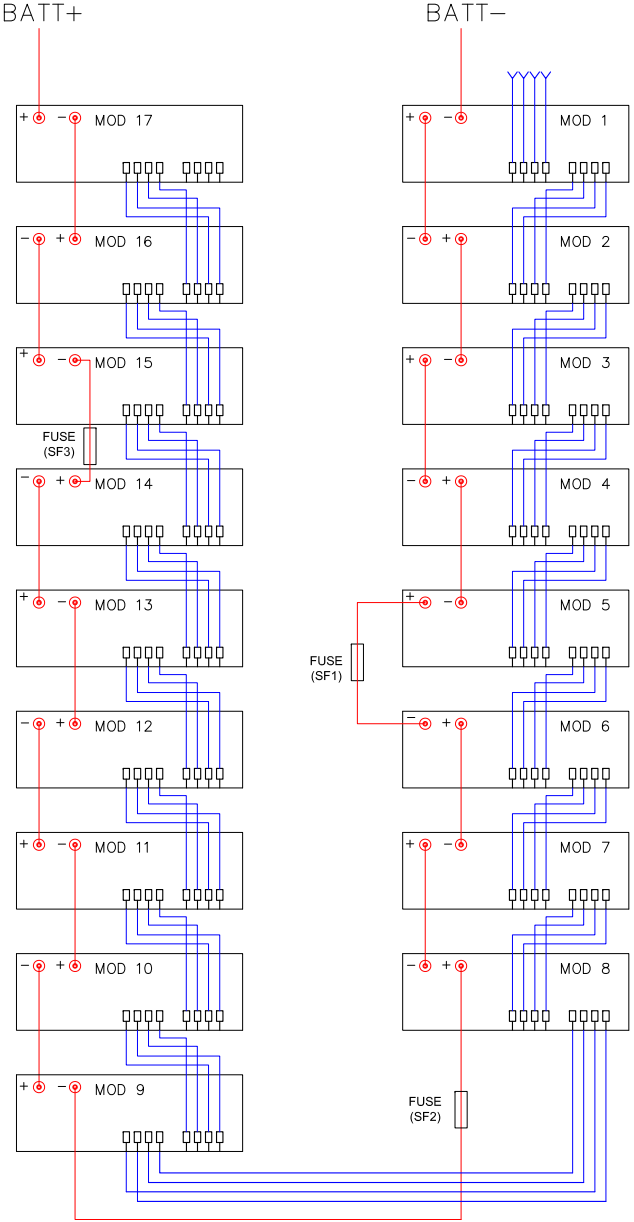
PROJECT: SUBMITTAL DRAWINGS SHEET 5 OF 10

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

REV. 0
27-MAY-21
02-JUN-21
02-JUN-21

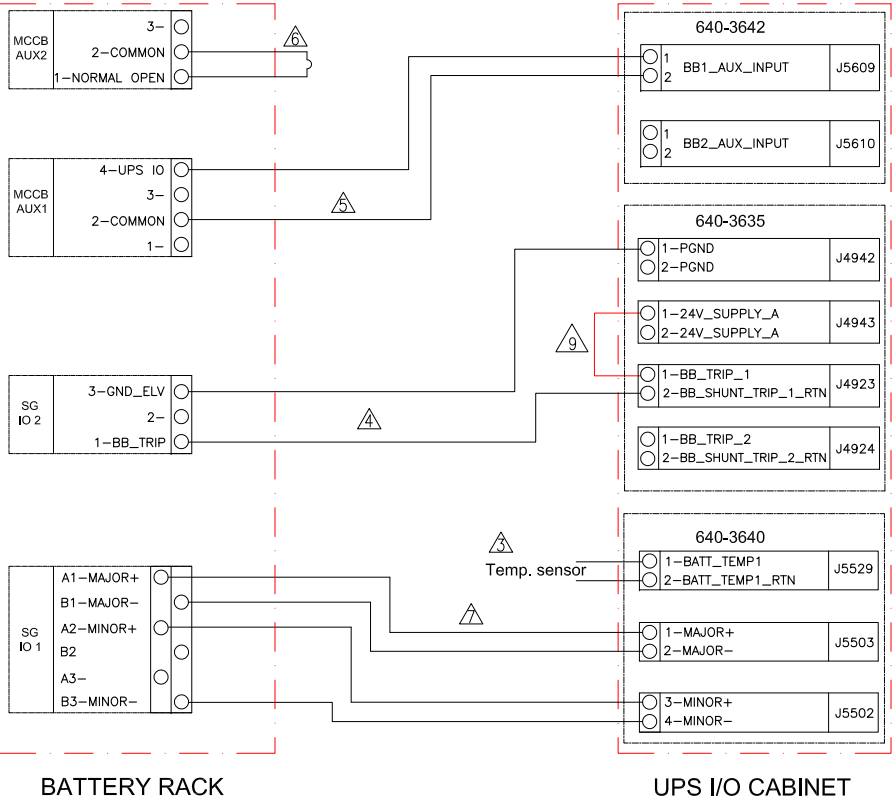
FIRST ANGLE PROJECTION

CABLING DIAGRAM, 17 MODULES/STRING

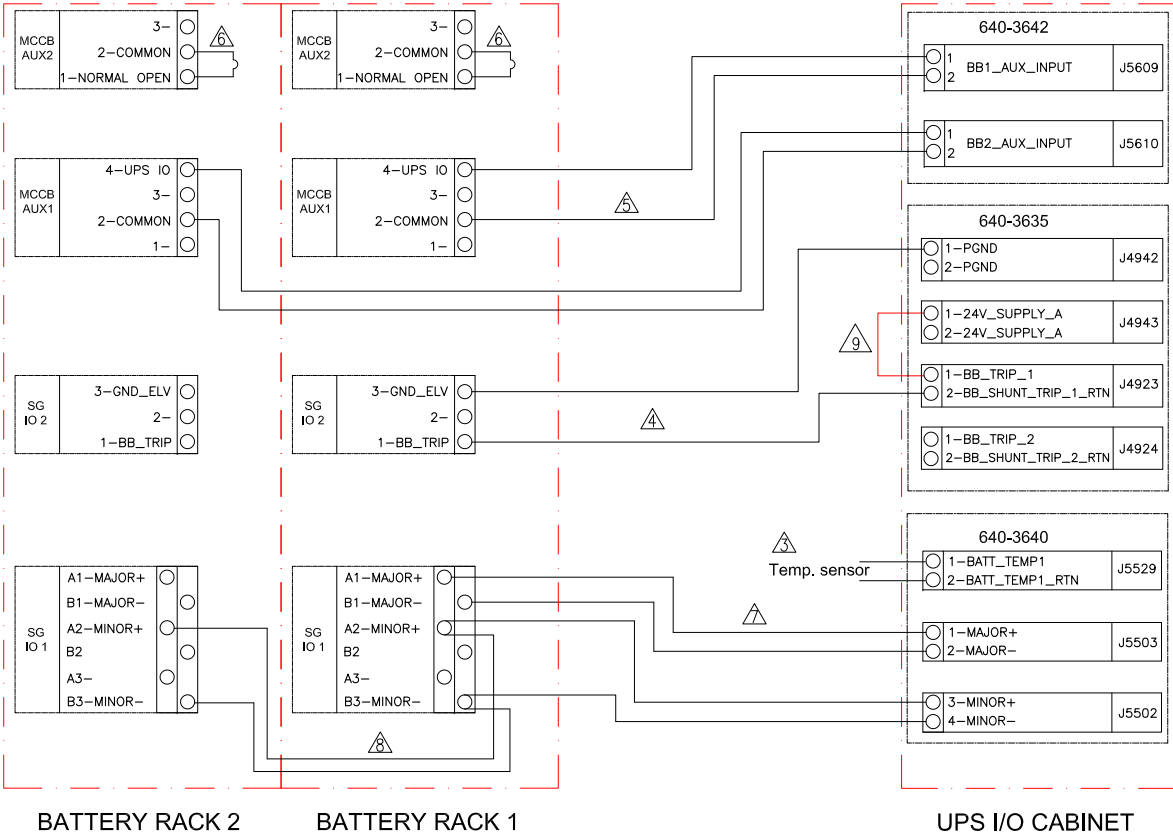


LEGEND:
CONTROL CABLE
BUS BAR

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:
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. 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 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 OW76972 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.

	Cable Tray Installation	
	Recommended Cable Size	Max Number of LIB Racks connected directly*
GVM	185mm ² [350kcmil] (Positive, Negative, PE)	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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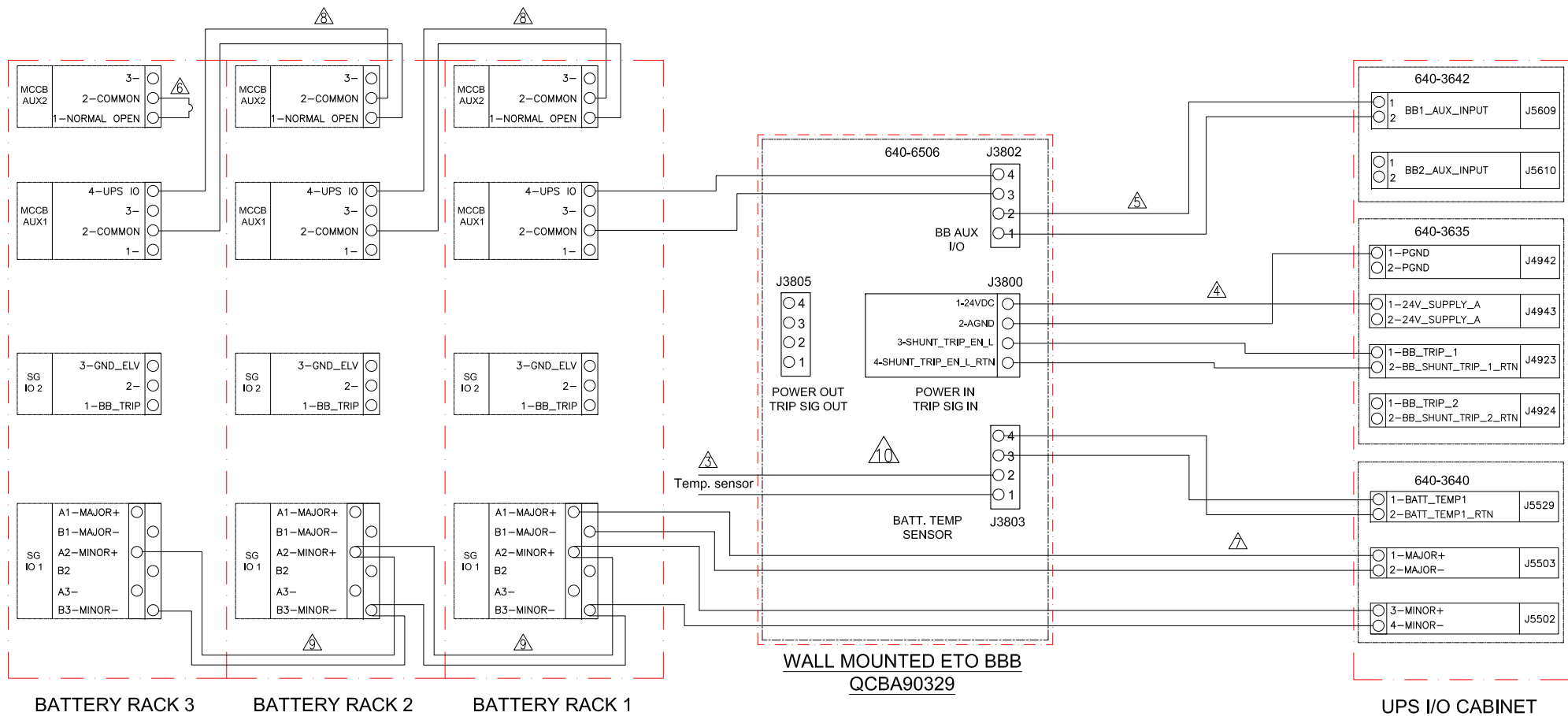


TITLE:
Galaxy Lithium-ion Battery cabinet, GVM IEC
INTERFACE DETAILS-1 & 2 RACKS
PROJECT: SUBMITTAL DRAWINGS SHEET 6 OF 10

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

REV. 0
27-MAY-21
02-JUN-21
02-JUN-21
FIRST ANGLE PROJECTION

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



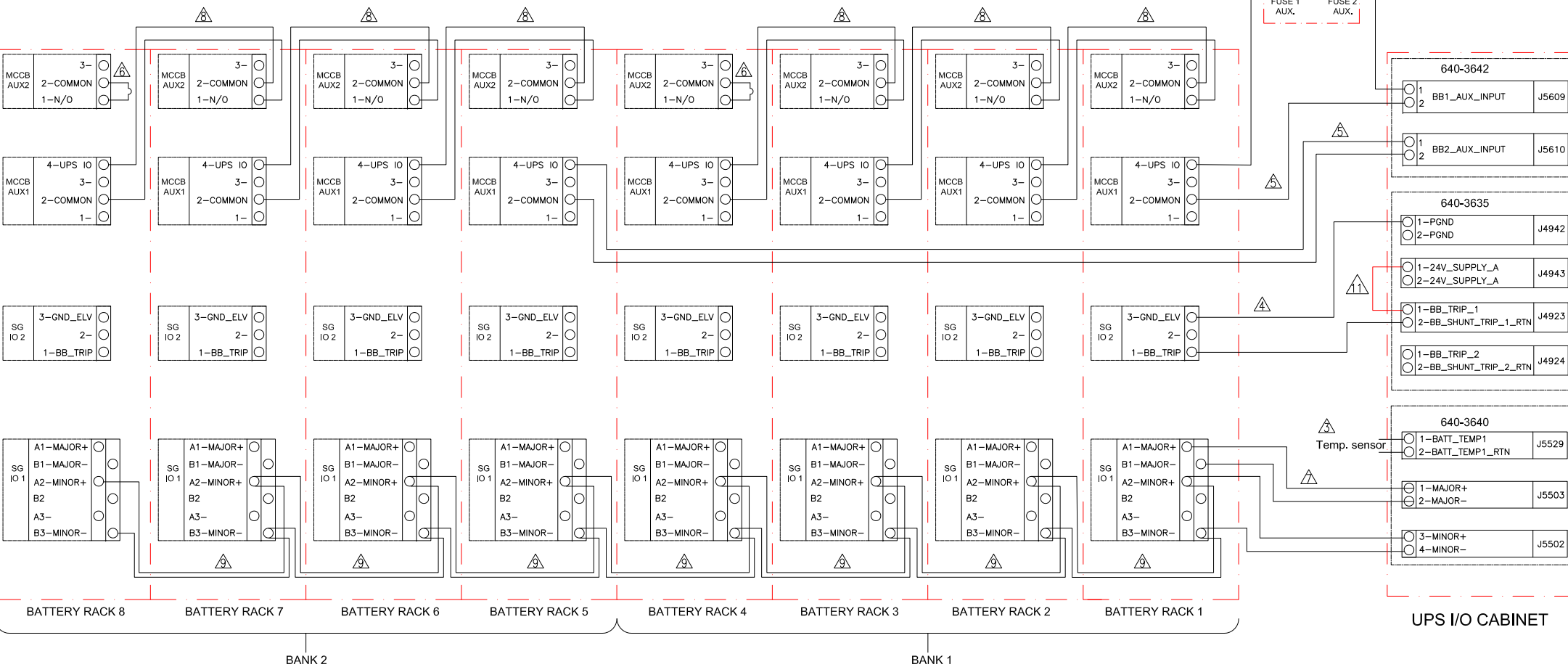
- NOTES:
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 - 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 - △3. INSTALL THE TEMPERATURE SENSOR OM-1160 PROVIDED WITH THE UPS IN THE BATTERY ROOM.
 - △4. USE THE PROVIDED OW13442 TO CONNECT 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. 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: Galaxy Lithium-ion Battery cabinet, GVM IEC INTERFACE DETAILS-WITH BBB		DWG NO: LIBSESMGGVMIEC	REV. 0
DRAWN: JAYAPRAKASH		27-MAY-21	ANGLE PROJECTION N.A
ENGINEER: Fred XIA		02-JUN-21	
PROJECT: SUBMITTAL DRAWINGS SHEET 7 OF 10		APPROVED: Rick ZHANG	02-JUN-21

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



CONFIGURATION WITH 8 BATTERY RACKS SHOWN FOR ILLUSTRATION

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

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Schneider Electric

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

PROJECT: SUBMITTAL DRAWINGS SHEET 8 OF 10

DWG NO: LIBSESMGGVMIEC

DRAWN: JAYAPRAKASH 27-MAY-21

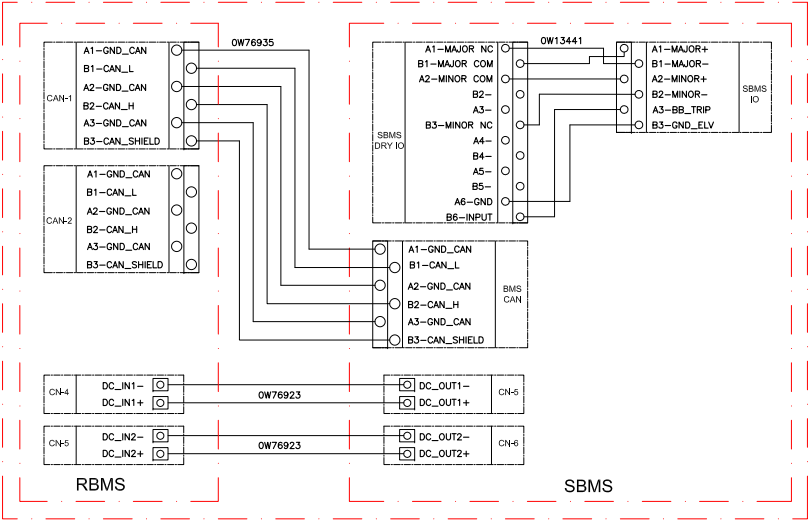
ENGINEER: Fred XIA 02-JUN-21

APPROVED: Rick ZHANG 02-JUN-21

REV. 0

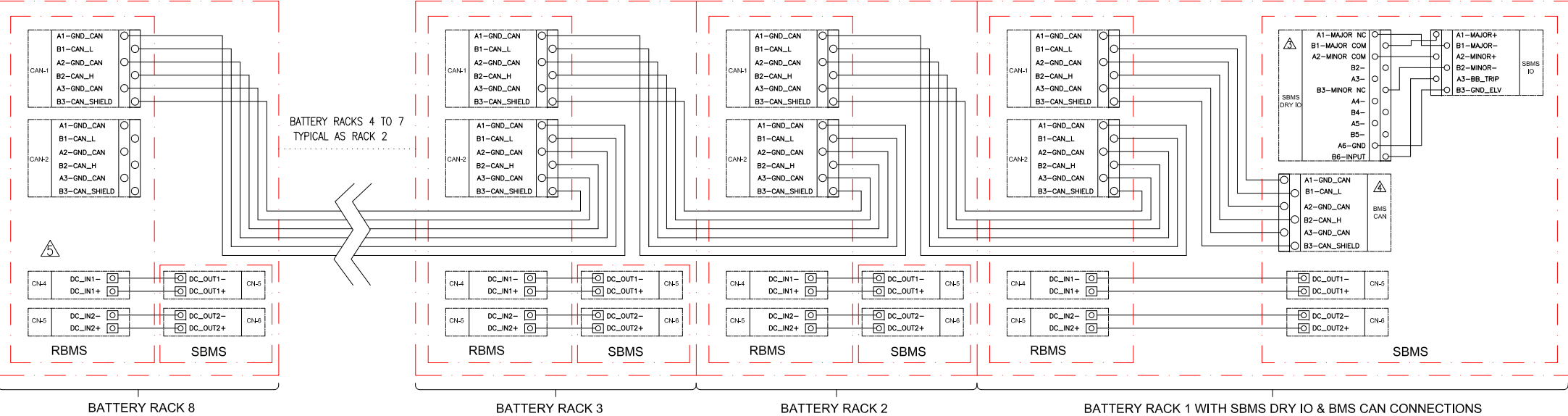
ANGLE PROJECTION N.A

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



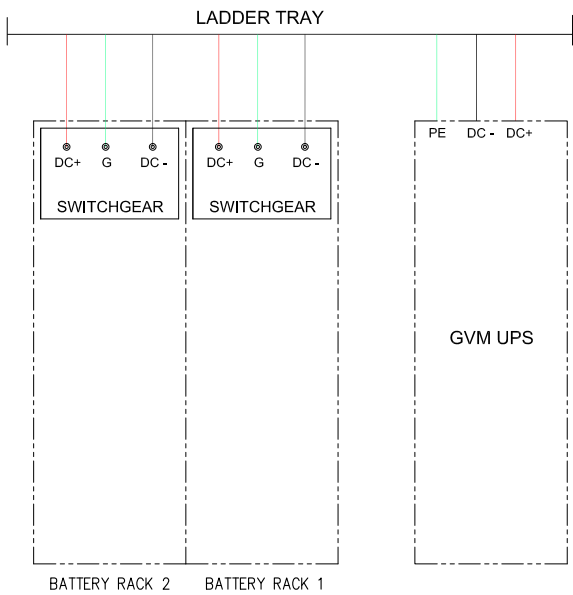
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 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 - △ 3. SBMS DRY IO IS CONNECTED IN BATTERY RACK 1 ONLY.
 - △ 4. BMS CAN IS CONNECTED IN BATTERY RACK 1 ONLY.
 - △ 5. SLIDE THE CAN BUS LOOP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

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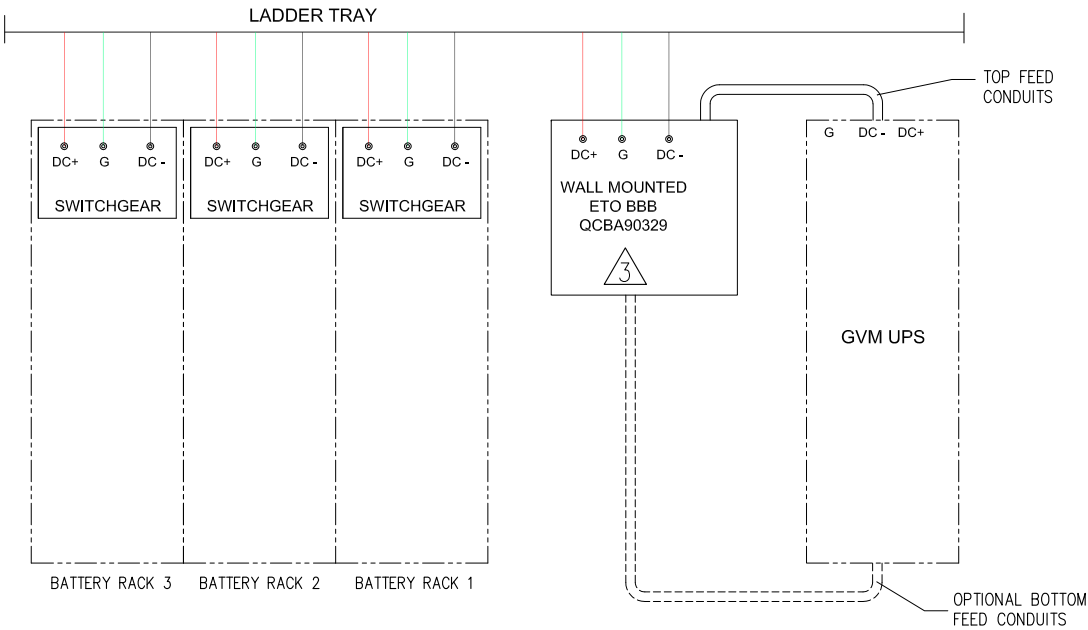


TITLE:		DWG NO:	LIBSESMGGVMIEC	REV.	0
Galaxy Lithium-ion Battery cabinet, GVM IEC		DRAWN:	JAYAPRAKASH	27-MAY-21	ANGLE
INTERFACE DETAILS-SBMS TO RBMS		ENGINEER:	Fred XIA	02-JUN-21	PROJECTION
PROJECT: SUBMITTAL DRAWINGS		APPROVED:	Rick ZHANG	02-JUN-21	N.A
SHEET 9 OF 10					

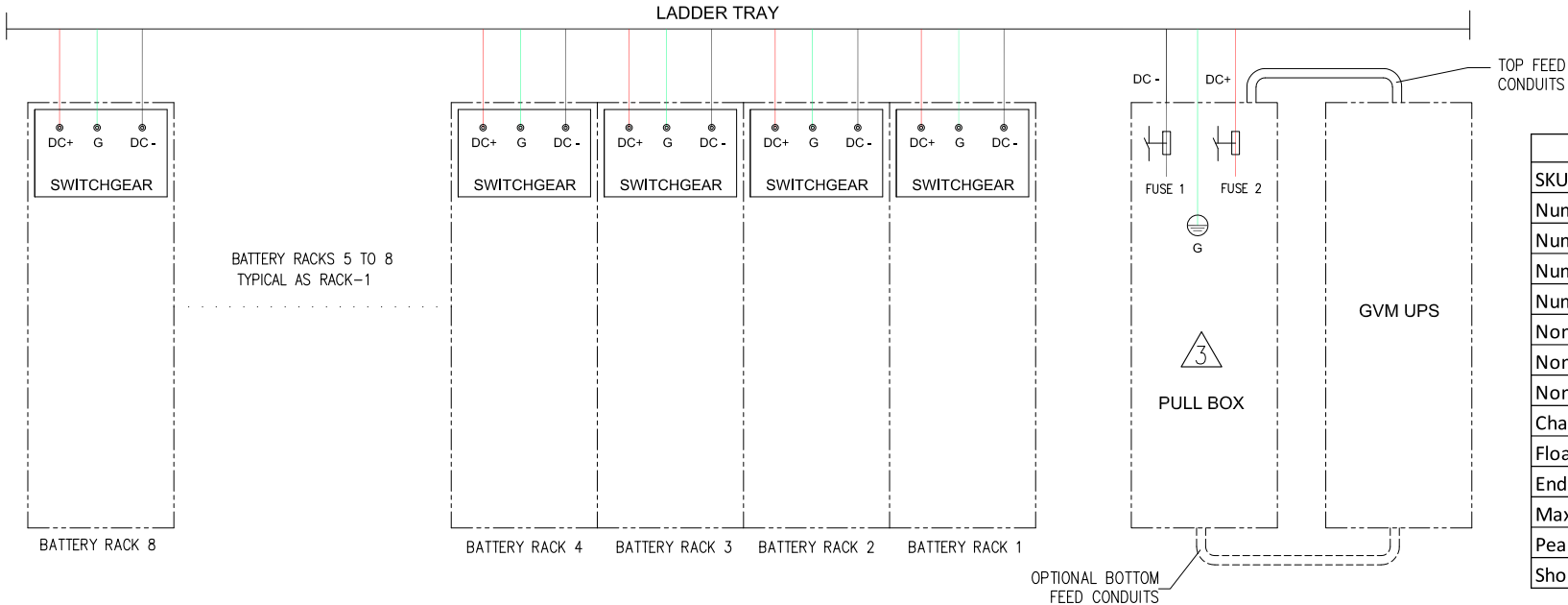
SCHEMATIC FOR GALAXY VM WHEN 2 BATTERY RACKS CONNECTED WITH LADDER TRAY TO UPS



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	LIBSESMG17IEC
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

NOTES:

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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 IEC
SCHEMATIC DIAGRAM

PROJECT: SUBMITTAL DRAWINGS

DWG NO: LIBSESMGGVMIEC

DRAWN: JAYAPRAKASH
ENGINEER: Fred XIA
APPROVED: Rick ZHANG

REV. 0

27-MAY-21
02-JUN-21
02-JUN-21

ANGLE PROJECTION
N.A.