

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
LIBESMG17IEC	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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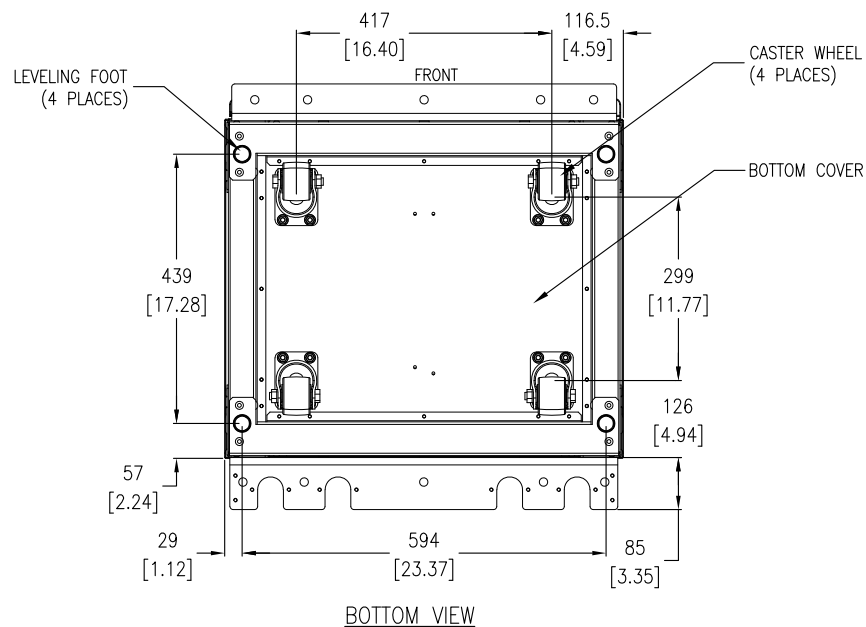
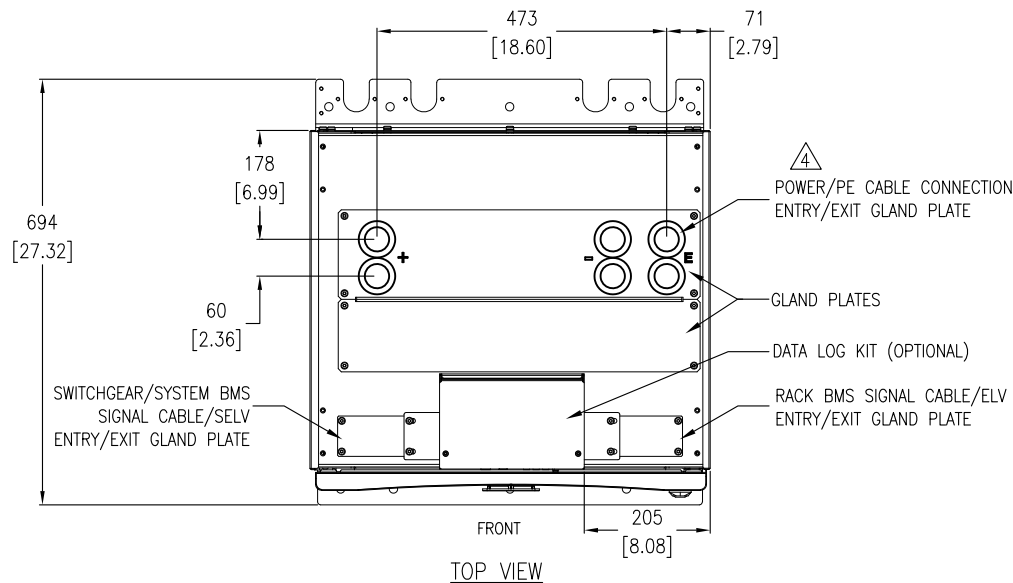
Schneider Electric

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

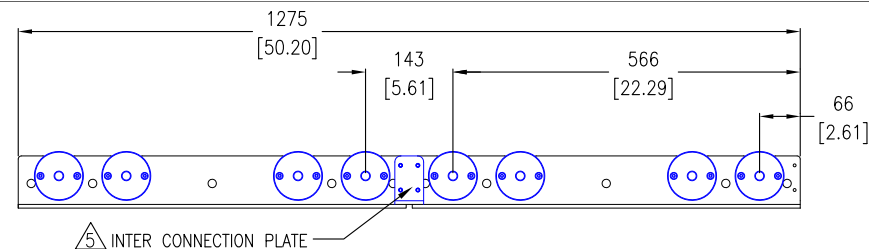
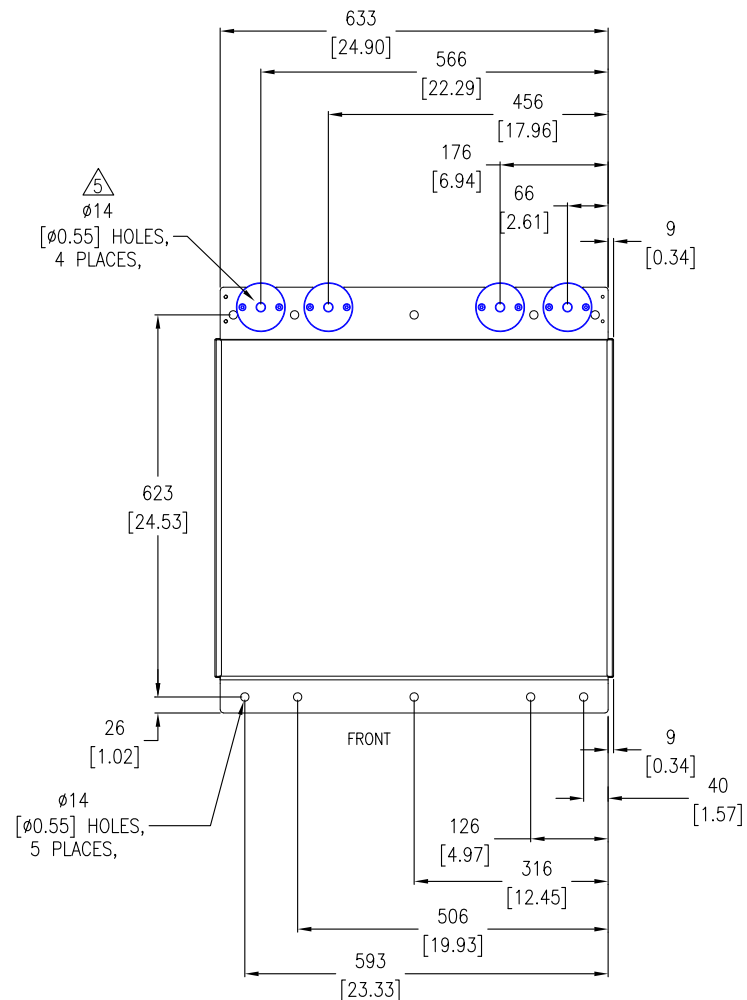
PROJECT: SUBMITTAL DRAWINGS SHEET 1 OF 11

DWG NO: LIBESMGGVXIEC
DRAWN: TRASSIA
ENGINEER: SHERRY LE
APPROVED: PETER LIN

REV. 1
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 (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, GVX IEC
TOP/BOTTOM VIEW & ANCHORING DETAILS

PROJECT: SUBMITTAL DRAWINGS **SHEET 2 OF 11**

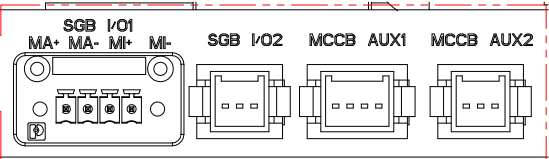
DWG NO: LIBSESMGGVXIEC

DRAWN: TRASSIA
ENGINEER: SHERRY LE
APPROVED: PETER LIN

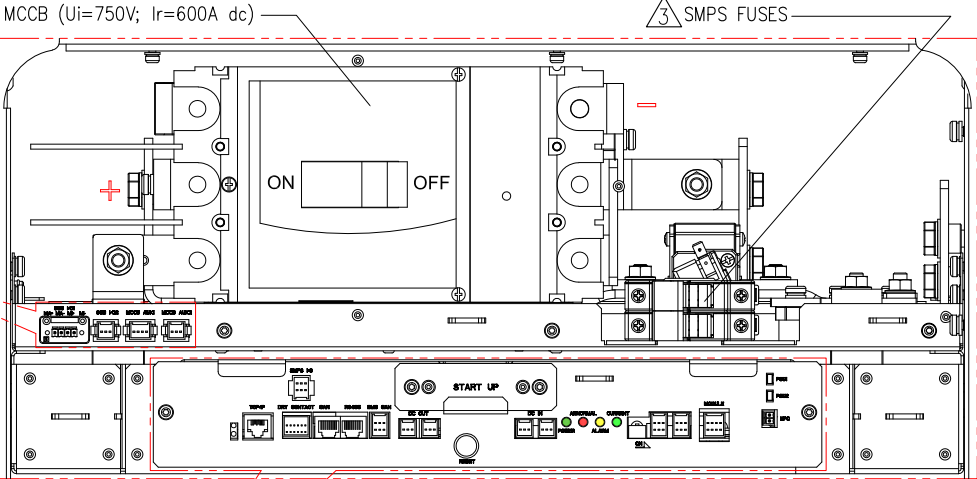
29-APR-25
29-APR-25
29-APR-25

REV. 1
FIRST ANGLE PROJECTION

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

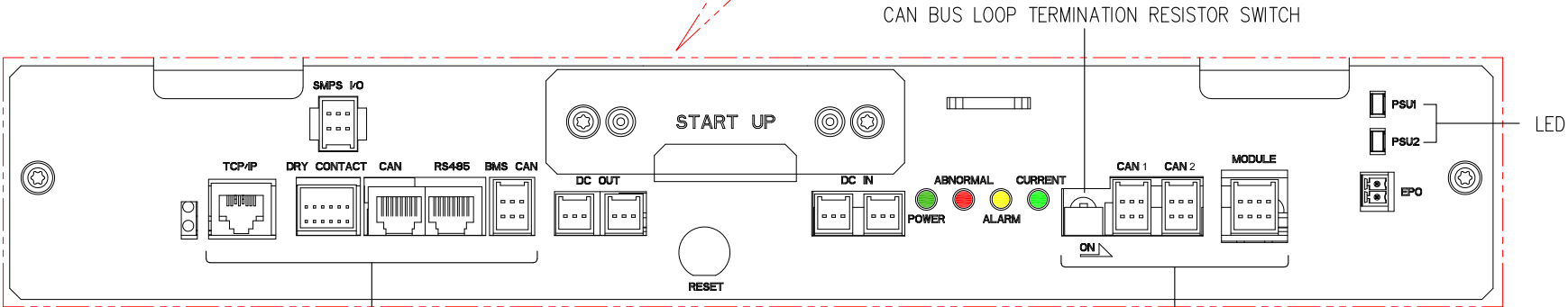


SWITCHGEAR PORTS



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

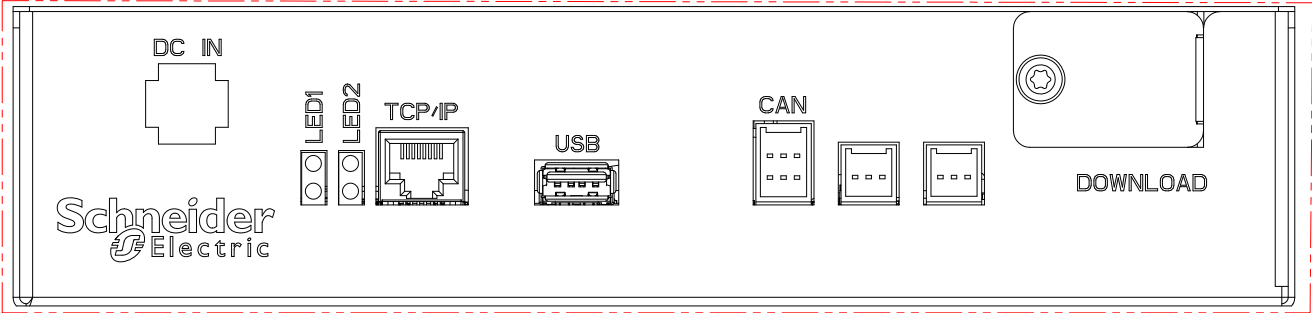
VIEW A (ENLARGED)
SWITCHGEAR SMPS AND BMS



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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Schneider Electric

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

PROJECT: SUBMITTAL DRAWINGS SHEET 4 OF 11

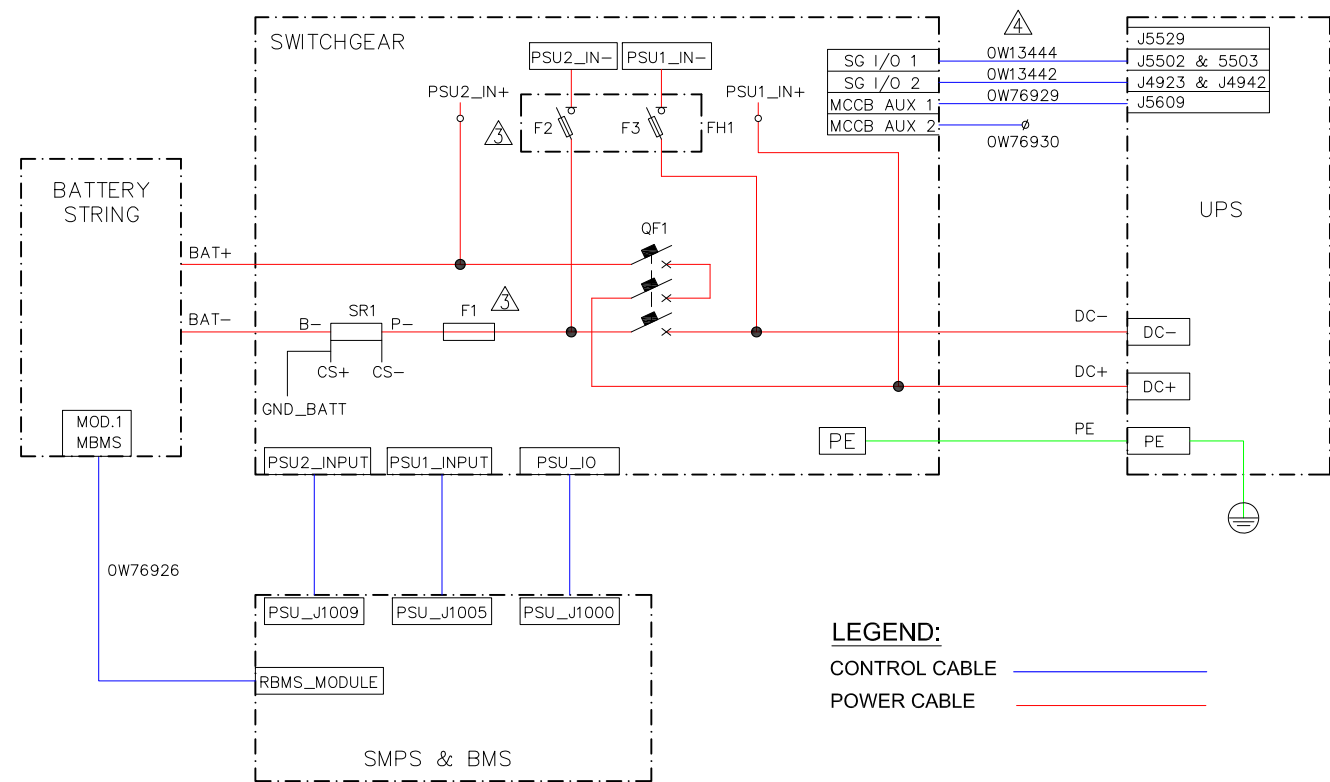
DWG NO: LIBSESMGGVXIEC

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

REV. 1

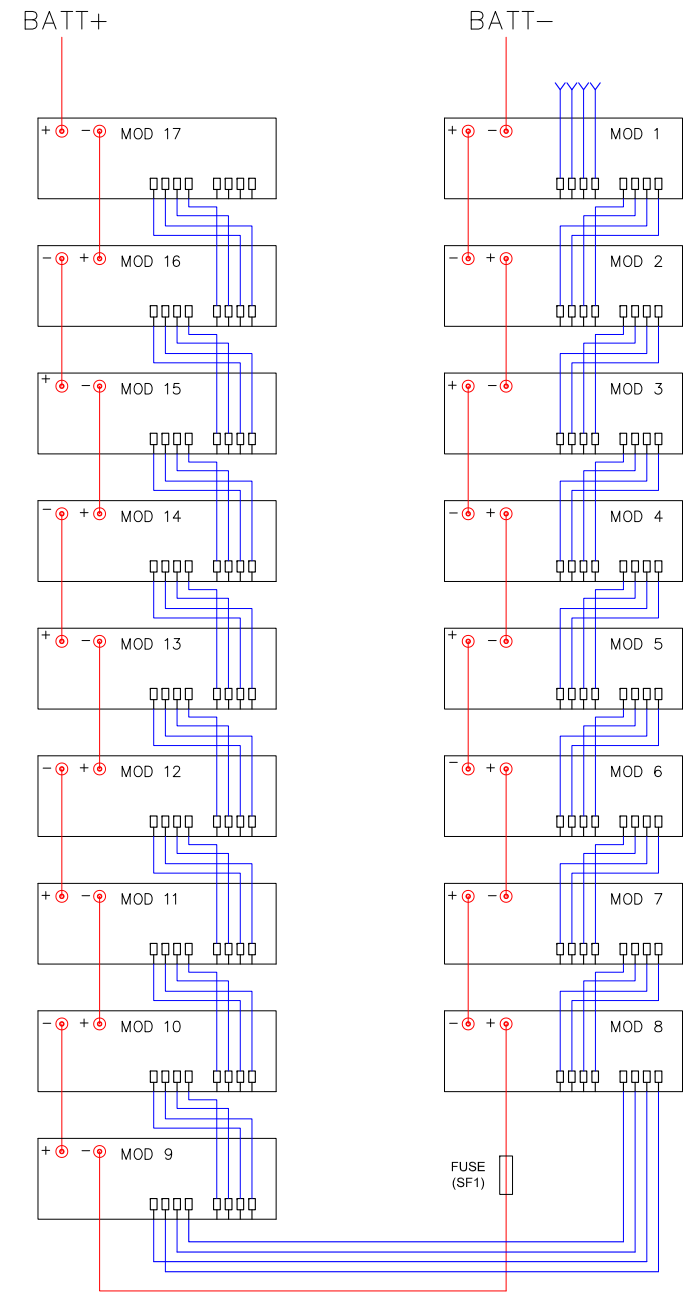
FIRST ANGLE PROJECTION

SYSTEM DIAGRAM



LEGEND:
CONTROL CABLE
POWER CABLE

17 MODULES/STRING



NOTES:
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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.

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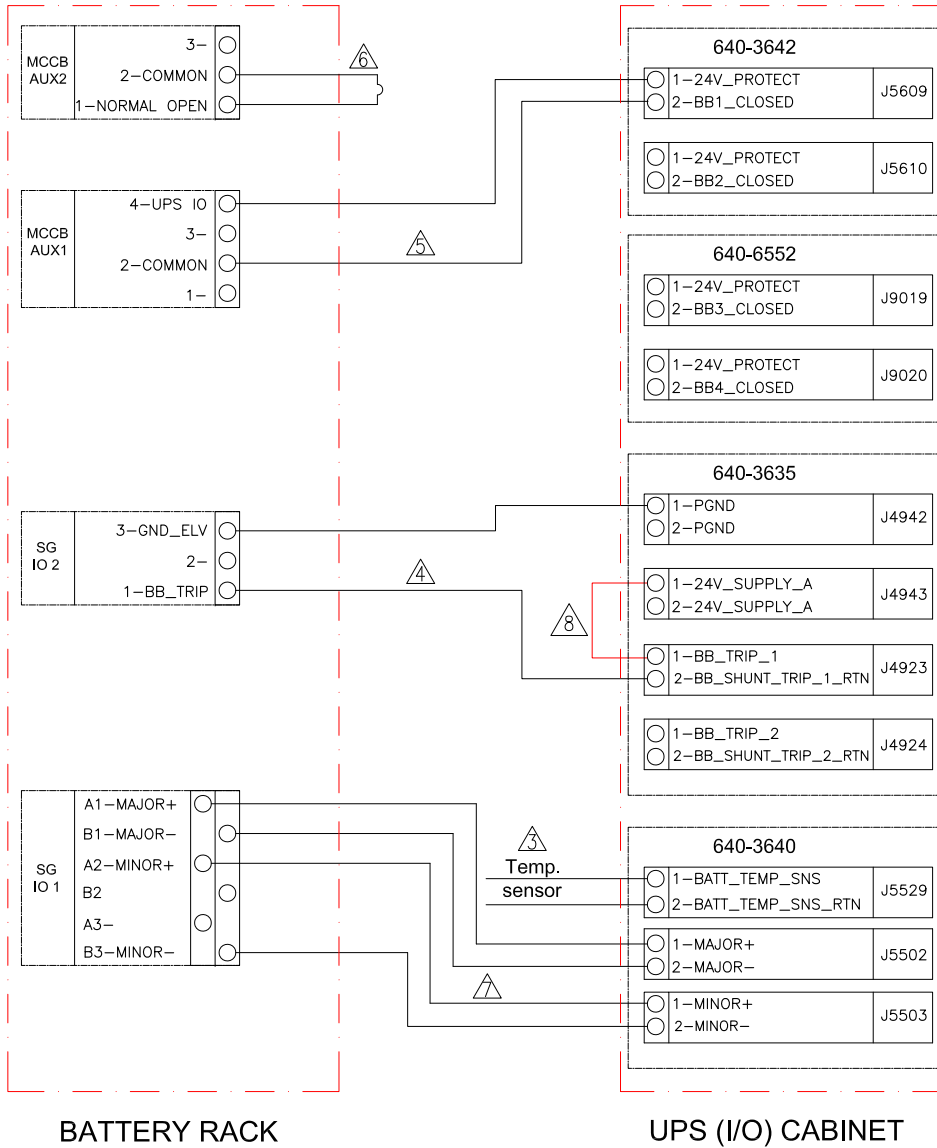


TITLE:
Galaxy Lithium-ion Battery cabinet, GVX IEC
SYSTEM DIAGRAM & CABLING DIAGRAM
PROJECT: SUBMITTAL DRAWINGS SHEET 5 OF 11

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

REV. 1
FIRST ANGLE PROJECTION

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



UPS(I/O) CABINET	Cable Tray Installation	
	Recommended Cable Size	Max Number of LIB Racks connected directly
GVX with 750kW IOC (obsolete-for LIB retrofit)	185mm ² /350kcmil (POSITIVE, NEGATIVE, PE)	Max 8 Racks
GVX with 1000kW IOC		Max 12 Racks
GVX with 1250kW IOC		Max 12 Racks (**)
GVX with 1500kW IOC		Max 17 Racks (***)

** With Copper bypass cables selected (It will decrease by 1 string if Aluminium bypass cables are selected).
***Fuse is required when more than 17 cabinets are connected directly; Li-ion Battery rack's short circuit rating RMS value is 2.9kA per rack and GVX limit is 50kA, the fuse protection shall cover the UPS short circuit limit.

MCCB's AUX contacts are wired in series when there are more than 4 strings and distributed according to the table below

Number of Strings	Strings per Bank			
	MCCB's AUX contact serialized on AUX in Bank1	MCCB's AUX contact serialized on AUX in Bank2	MCCB's AUX contact serialized on AUX in Bank3	MCCB's AUX contact serialized on AUX in Bank4
5	2	1	1	1
6	2	2	1	1
7	2	2	2	1
8	2	2	2	2
9	3	2	2	2
10	3	3	2	2
11	3	3	3	2
12	3	3	3	3
13	4	3	3	3
14	4	4	3	3
15	4	4	4	3
16	4	4	4	4
17	5	4	4	4

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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 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. SHORT PIN 1 IN J4923 AND J4943.

CONTACT APPLICATION TEAM FOR CONFIGURATION WITH MORE THAN 17 RACKS

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Schneider Electric

TITLE:
Galaxy Lithium-ion Battery cabinet, GVX IOC
INTERFACE DETAILS-1 RACK

PROJECT: SUBMITTAL DRAWINGS SHEET 6 OF 11

DWG NO: LIBSESMGGVXIEC

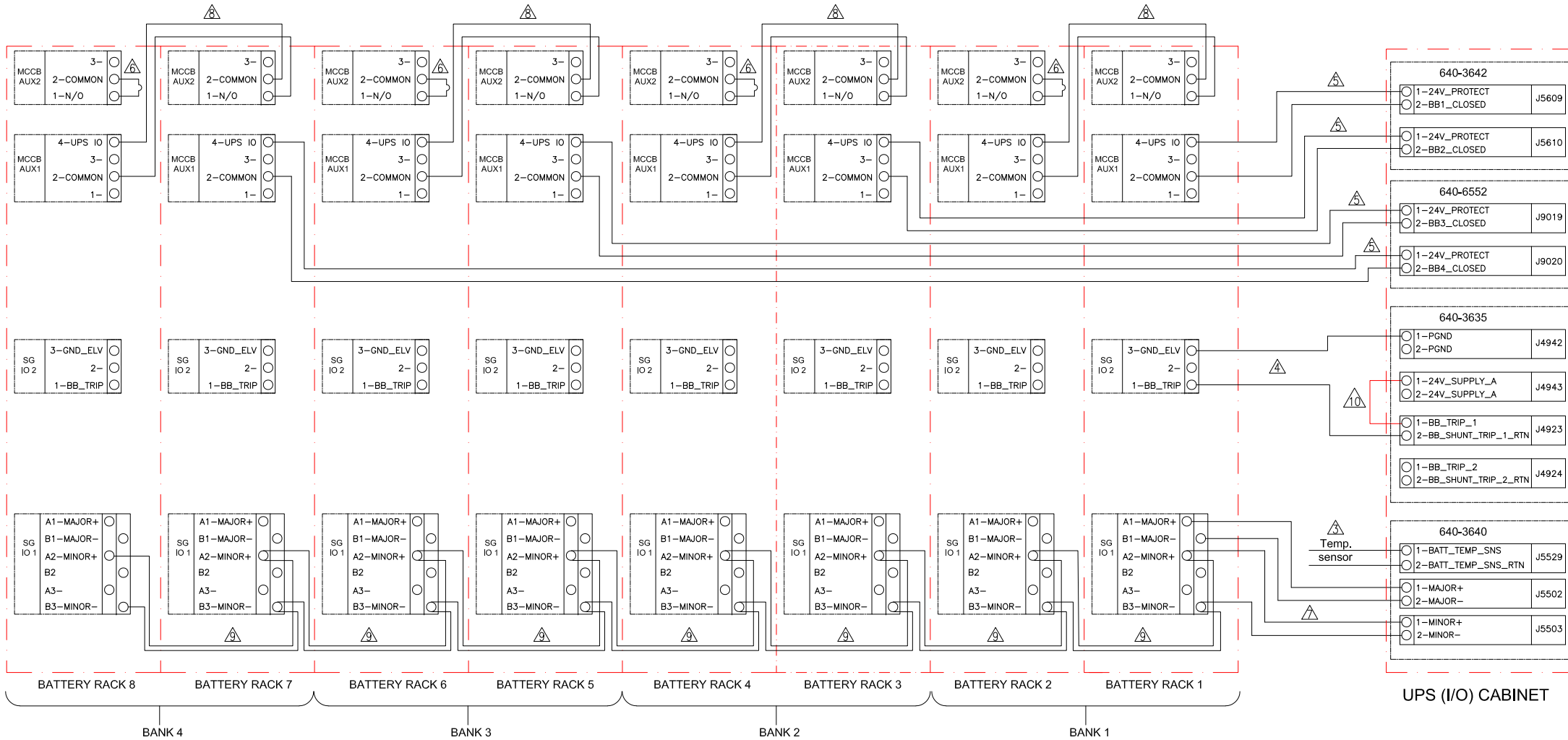
DRAWN: JAYAPRAKASH 27-MAY-21

ENGINEER: Fred XIA 02-JUN-21

APPROVED: Fred XIA 02-JUN-21

REV: 0
FIRST ANGLE PROJECTION

INTERFACE DETAILS FOR GALAXY VX 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 IN J4923 AND J4943.
 11. THE SYSTEM BMS IS LOCATED IN BATTERY RACK 1 ONLY.

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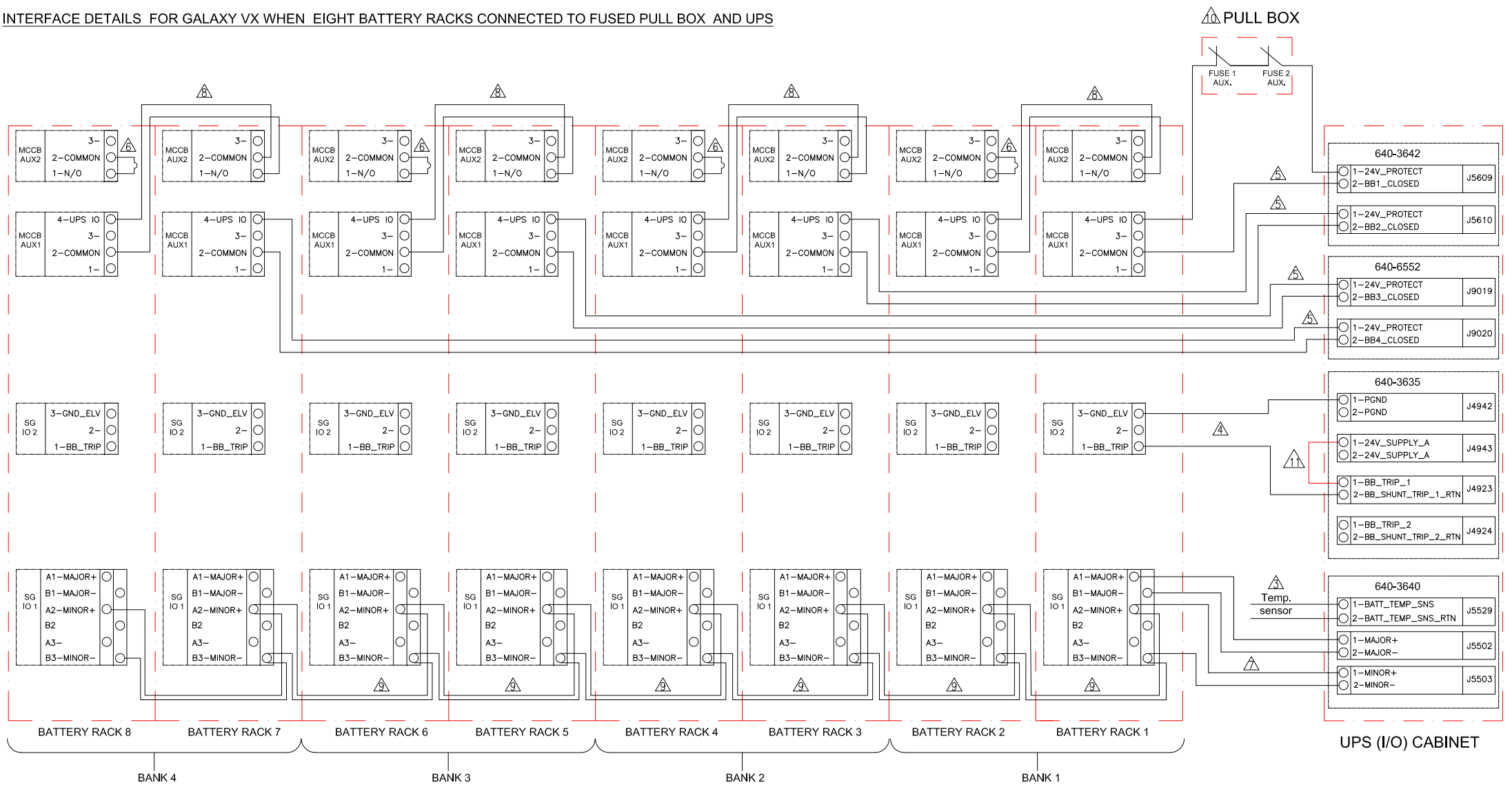


TITLE:
Galaxy Lithium-ion Battery cabinet, GVX IEC
INTERFACE DETAILS-8 RACKS
PROJECT: SUBMITTAL DRAWINGS SHEET 7 OF 11

DWG NO: LIBSESMGGVXIEC
DRAWN: JAYAPRAKASH
ENGINEER: Fred XIA
APPROVED: Fred XIA
27-MAY-21
02-JUN-21
02-JUN-21

REV. 0
ANGLE PROJECTION
N.A.

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



- NOTES:
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 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 - ⚠️ INSTALL THE TEMPERATURE SENSOR OM-1160 PROVIDED WITH THE UPS IN THE BATTERY ROOM.
 - ⚠️ USE THE PROVIDED 0W13442 TO CONNECT UPS BB_TRIP CONTACT.
 - ⚠️ USE THE PROVIDED 0W76929 TO CONNECT MCCB AUX 1 (THE FIRST ONE RACK OF A BANK) TO UPS.
 - ⚠️ USE THE PROVIDED 0W76930 TO CONNECT MCCB AUX 2 CONTACT FOR LAST RACK IN A BANK.
 - ⚠️ USE THE PROVIDED 0W13444 TO CONNECT MAJOR AND MINOR FAULT CONTACTS.
 - ⚠️ USE THE PROVIDED 0W76934 TO CONNECT MCCB AUX SIGNALS IN SERIES.
 - ⚠️ USE THE PROVIDED 0W76972 TO CONNECT MINOR FAULT ALARM CONTACTS.
 - ⚠️ PLEASE CONTACT APPLICATION ENGINEERING TEAM FOR THE REQUIRED CONNECTION METHODS WITH PULL BOX, FUSED PULL BOX AND etc.
 - ⚠️ SHORT PIN 1 IN J4923 AND J4943.
 12. THE SYSTEM BMS IS LOCATED IN BATTERY RACK 1 ONLY.

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

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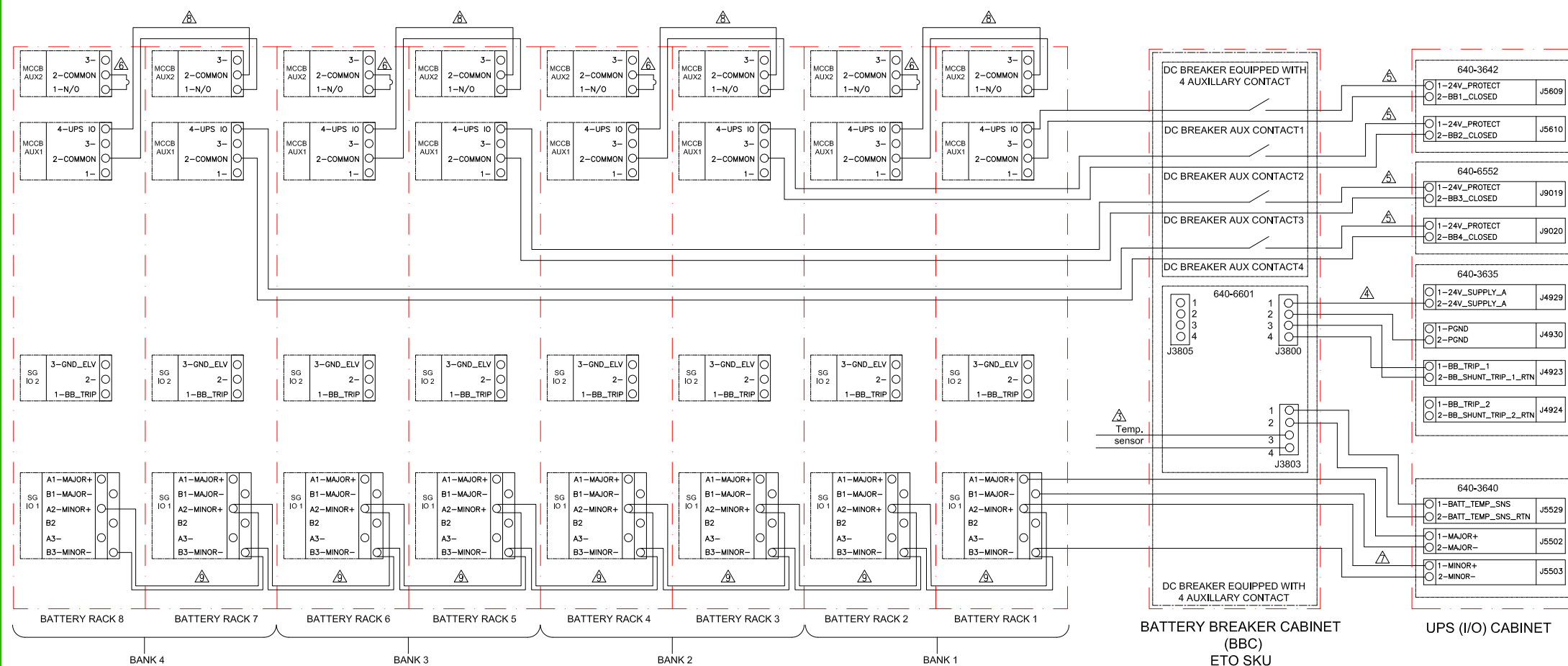
Schneider
Electric

TITLE:
Galaxy Lithium-ion Battery cabinet, GVX IEC
INTERFACE DETAILS-WITH PULL BOX
PROJECT: SUBMITTAL DRAWINGS SHEET 8 OF 11

DWG NO: LIBSESMGGVXIEC
DRAWN: JAYAPRAKASH
ENGINEER: Fred XIA
APPROVED: Fred XIA
27-MAY-21
02-JUN-21
02-JUN-21

REV: 0
ANGLE
PROJECTION
N.A.

INTERFACE DETAILS FOR GALAXY VX WHEN EIGHT BATTERY RACKS CONNECTED TO BBC AND UPS



CONFIGURATION WITH 8 BATTERY RACKS (2 RACK/BANK) 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 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. THE SYSTEM BMS IS LOCATED IN BATTERY RACK 1 ONLY.

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TITLE:
Galaxy Lithium-ion Battery cabinet, GVX IEC
INTERFACE DETAILS WITH BBC

PROJECT: SUBMITTAL DRAWINGS SHEET 9 OF 11

DWG NO: LIBSESMGGVXIEC

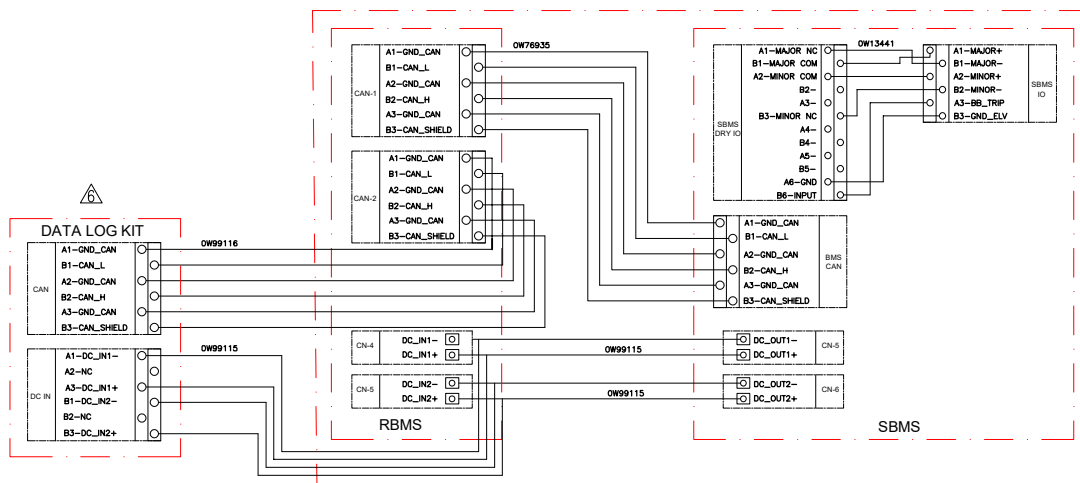
DRAWN: JAYAPRAKASH
ENGINEER: Fred XIA
APPROVED: Fred XIA

REV: 0

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

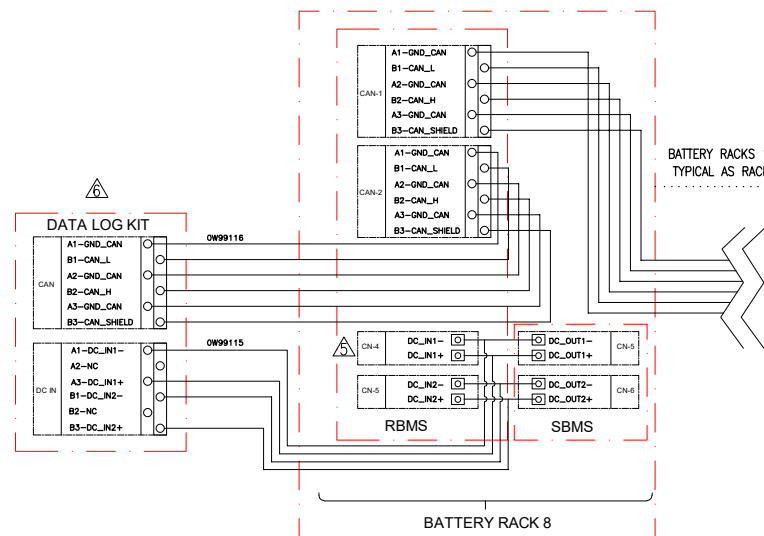
ANGLE
PROJECTION
N.A

BMS WIRING DETAILS FOR ONE BATTERY RACK

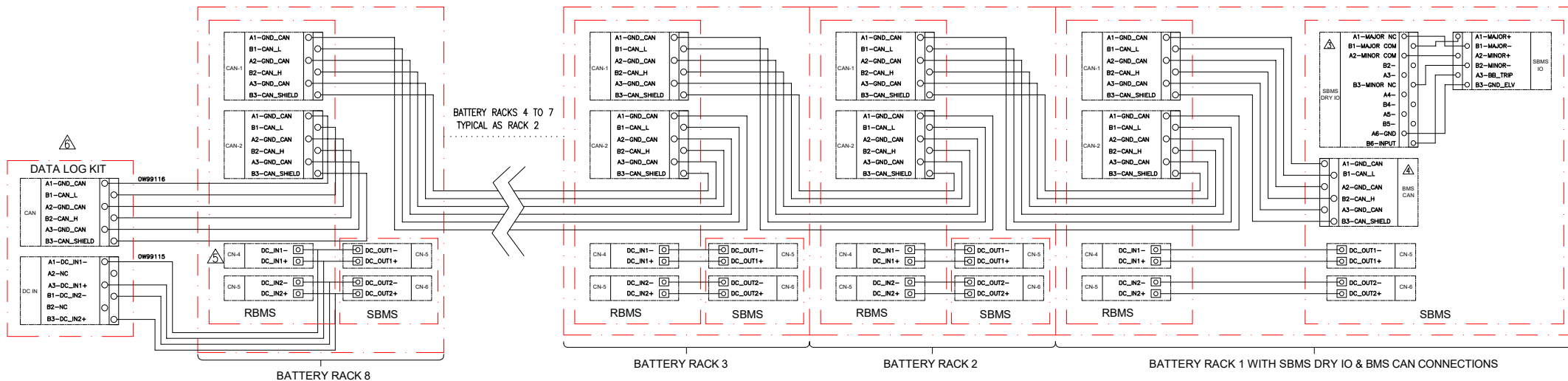


BATTERY RACK 1 WITH SBMS DRY IO & BMS CAN CONNECTIONS

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



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.
- ⚠️ SBMS DRY IO** IS CONNECTED IN BATTERY RACK 1 ONLY.
- ⚠️ BMS CAN** IS CONNECTED IN BATTERY RACK 1 ONLY.
- ⚠️** SLIDE THE **CAN** BUS LOOP TERMINATION RESISTOR SWITCH TO **ON** POSITION IN THE LAST ONE BATTERY RACK.
- ⚠️** DATA LOG KIT IS OPTIONAL, THE KIT NUMBER IS LIBSEDATABSIEC, FOR MORE THAN ONE LIB CABINET CONNECTION DATA KIT MUST BE IN THE LAST RACK ONLY.

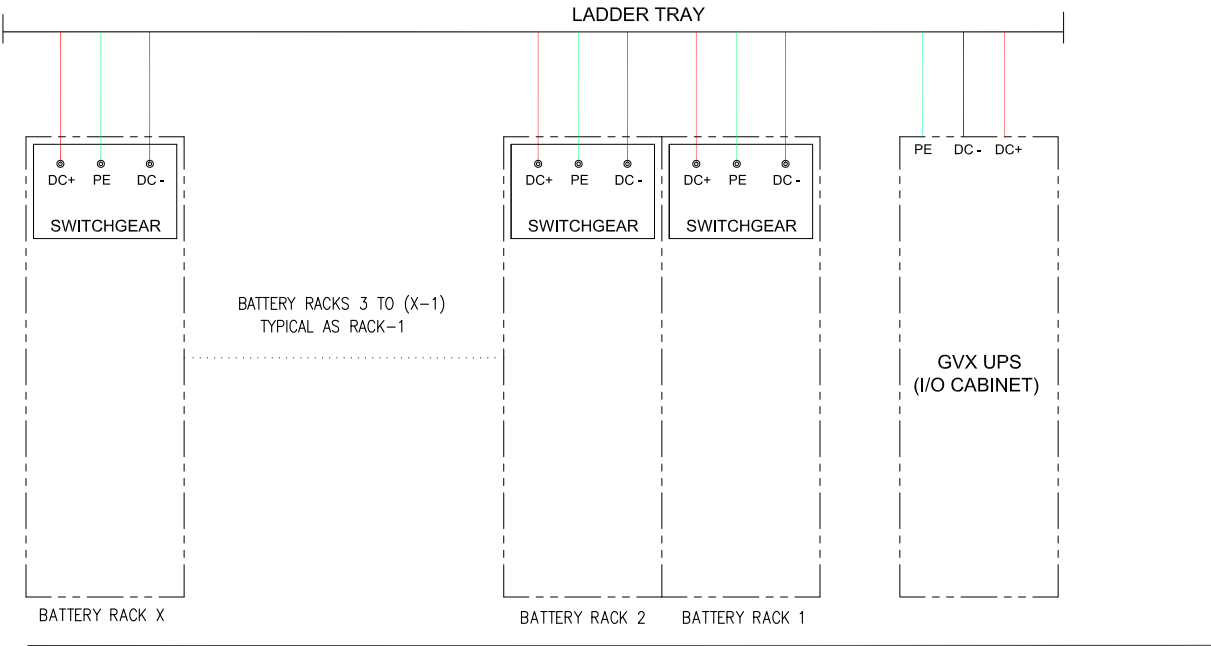
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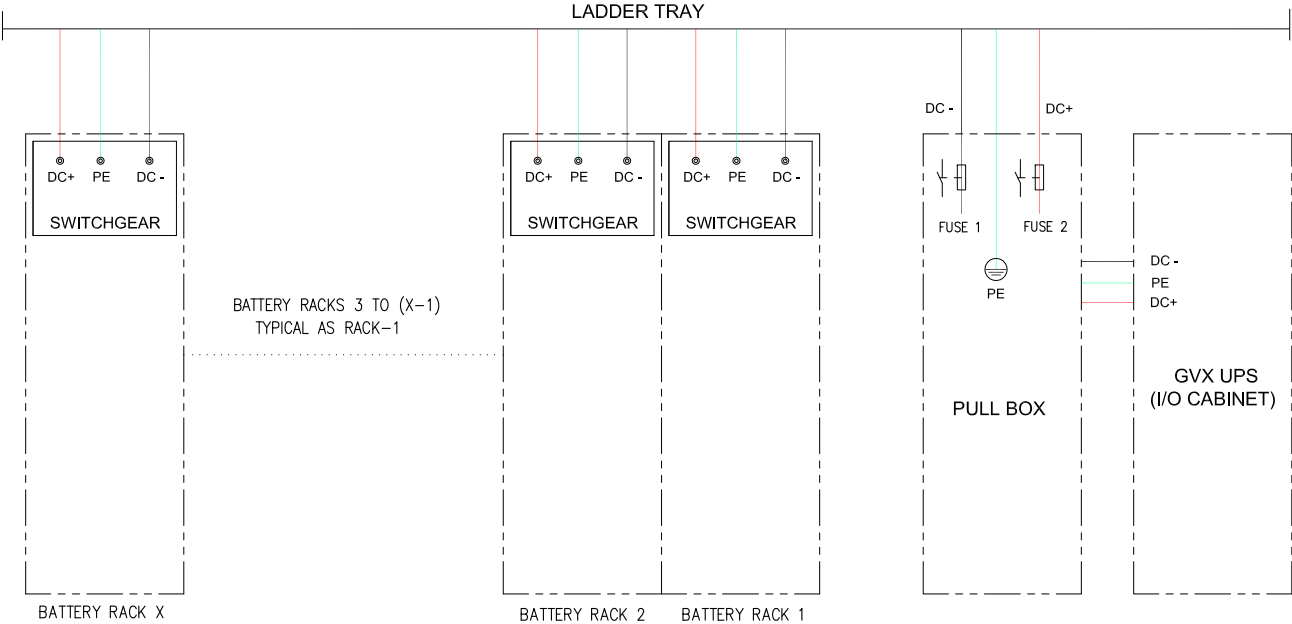
TITLE: Galaxy Lithium-ion Battery cabinet, GVX IEC INTERFACE DETAILS-SBMS TO RBMS	DWG NO: LIBSESMGGVXIEC		REV. 2
	DRAWN: TRASSIA	13-MAY-25	ANGLE PROJECTION N.A
	ENGINEER: SHERRY LE	13-MAY-25	
	APPROVED: PETER LIN	13-MAY-25	

PROJECT: SUBMITTAL DRAWINGS SHEET 10 OF 11

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



SCHEMATIC FOR GALAXY VX WHEN 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:		DWG NO:		REV.
Galaxy Lithium-ion Battery cabinet, GVX IEC SCHEMATIC DIAGRAM		LIBSESMGGVXIEC		0
DRAWN:		JAYAPRAKASH	27-MAY-21	ANGLE
ENGINEER:		Fred XIA	02-JUN-21	PROJECTION
PROJECT: SUBMITTAL DRAWINGS		APPROVED:		N.A
SHEET 11 OF 11		Fred XIA		02-JUN-21

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

The recommended cable size is 185mm²/350kcmil