

2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.

3. ALL DIMENSIONS ARE IN MILLIMETERS [INCHES].

 \triangle 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.

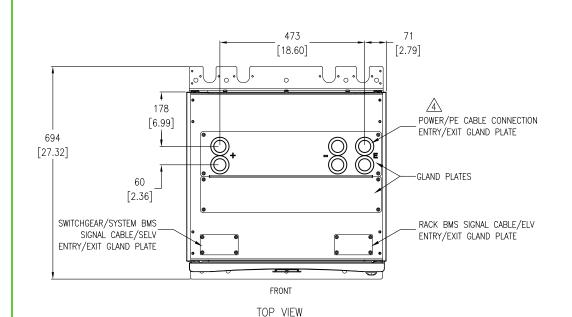
12. BATTERY RACKS CAN BE BAYED SIDE BY SIDE AND BACK TO BACK. REFER TO INSTALLATION MANUAL FOR DETAILS.

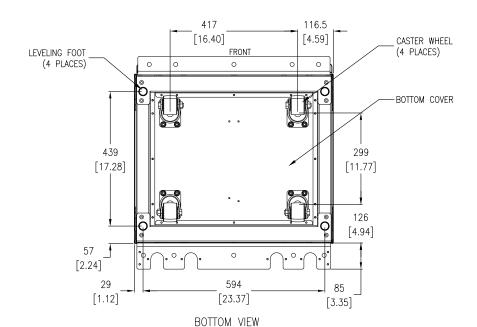
	WEIGHT	IN kg [lb]	COG IN m			mm [Inch]		
SKU NUMBER	Empty Rack Fully loaded		Empty Rack			F	ully loaded Rac	k
	стіріў каск	Rack	X-diection	Y-direction	Z-direction	X-diection	Y-direction	Z-direction
LIBSESMG16IEC	211 [465]	470 [1036]	321.5 [12.66]	1031.5 [40.61]	311.2 [12.25]	324 [12.76]	990.7 [39.00]	279.9 [11.02]
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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R RE R	Schneider Electric
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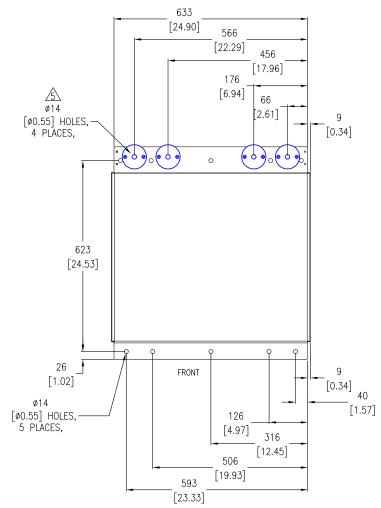
	•			•		•	· ·	
TITLE:		DWG NO:	BSESMG	GVLIFC	REV.			
Galaxy I	Lithium-ion	Battery co	binet,	GVL IEC	DRAWN:	JAYAPRAKASH	29-APR-21	
	Galaxy Lithium—ion Battery cabinet, GVL IEC GENERAL ARRANGEMENT		DRAWN:	JATAPRAKASH	29-APK-21	FIRST		
					ENGINEER:	Fred XIA	29-APR-21	ANGLE
PROJECT:	SUBMITTAL	DRAWINGS	SHEET	1 OF 10	APPROVED:	Fred XIA	29-APR-21	PROJECTION



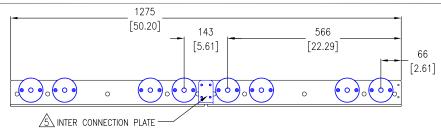


- 1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
- 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- 3. ALL DIMENSIONS ARE IN MILLIMETERS [INCHES].
- △ 4. DO NOT DRILL/PUNCH HOLES WITH THE GLAND 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.

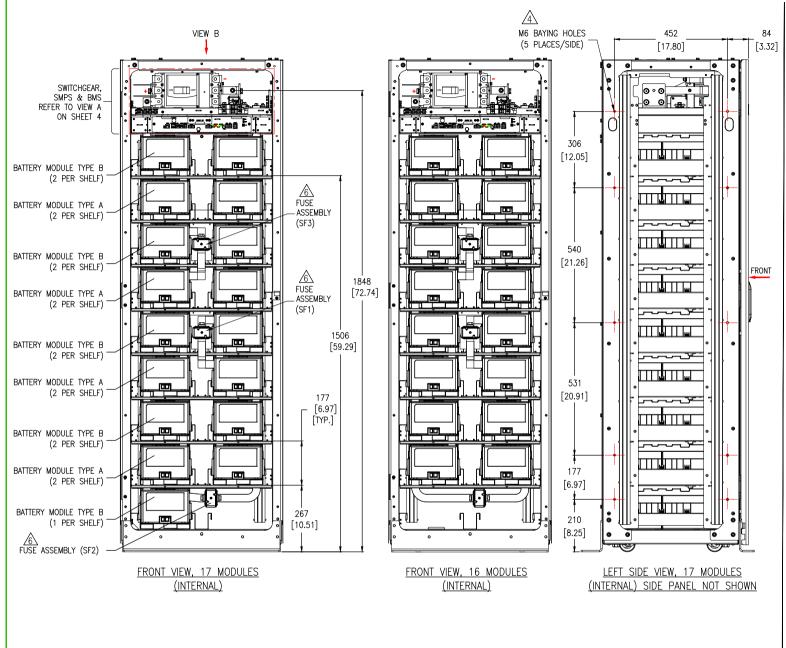
SEISMIC ANCHORING DETAILS FOR MORE THAN ONE BATTERY RACK THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF SCHNEIDER ELECTRIC AND SHALL NOT BE COPIED, REPRODUCED OR Schneider JSED IN WHOLE OR IN PART, AS THE BASIS FOR THE MANUFACTUI OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION FROM SCHNEIDER ELECTRIC. THIS DRAWING IS BASED UPON LATEST AVAILABLE INFORMATION AND IS SUBJECT TO CHANGE WITHOUT NOTICE.

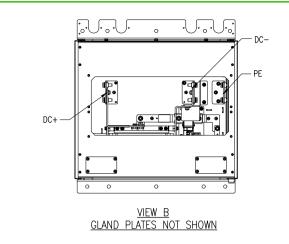


SEISMIC ANCHORING DETAILS - 1 BATTERY RACK

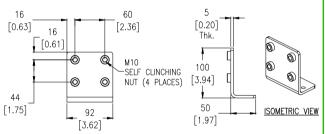


LIBSESMGGVLIEC Galaxy Lithium—ion Battery cabinet, GVL IEC TOP/BOTTOM VIEW & ANCHORING DETAILS JAYAPRAKASH 29-APR-21 FIRS1 **E**lectric 29-APR-21 ANGLE ENGINEER Fred XIA PROJECT: SUBMITTAL DRAWINGS SHEET 2 OF 10 APPROVED Fred XIA 29-APR-21 PROJECTION



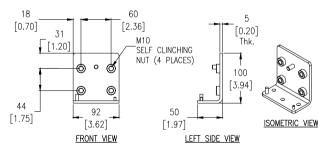


BUSBAR DETAILS



BUSBAR PE

LEFT SIDE VIEW



FRONT VIEW

BUSBAR DC+/DC-

NOTE: BOLT AND NUTS ARE PROVIDED WITH THE TERMINALS.

RECOMMENDED TORQUE FOR M10 BOLTS IS 30Nm [22.13 lb-ft].

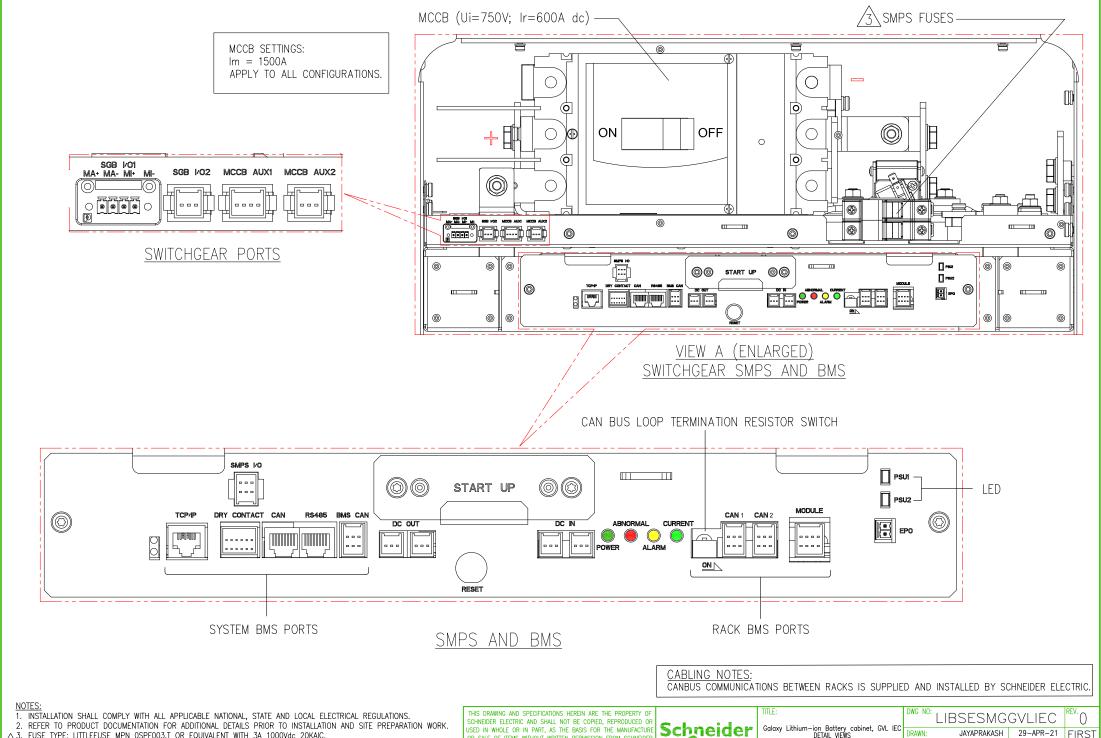
NOTES:

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



△ 3. FUSE TYPE: LITTLEFUSE MPN OSPF003.T OR EQUIVALENT WITH 3A 1000Vdc 20KAIC.

4. THE SYSTEM BMS IS LOCATED IN RACK 1 ONLY.

OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION FROM SCHNEIDER ELECTRIC. THIS DRAWING IS BASED UPON LATEST AVAILABLE INFORMATION AND IS SUBJECT TO CHANGE WITHOUT NOTICE.

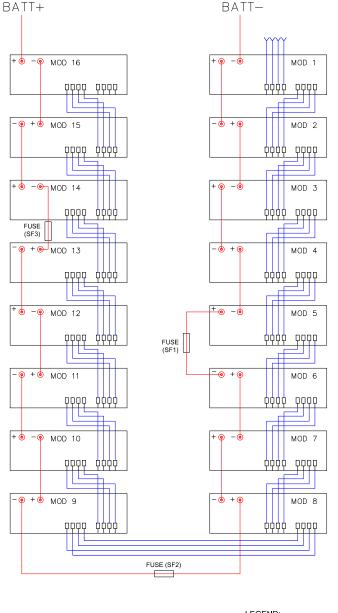


Galaxy Lithium—ion Battery cabinet, GVL IEC DETAIL VIEWS ENGINEER: PROJECT: SUBMITTAL DRAWINGS SHEET 4 OF 10 APPROVED

29-APR-21 FIRST 29-APR-21 ANGLE Fred XIA Fred XIA 29-APR-21 PROJECTION

BATT+ BATT-+ **6** − **9** MOD 17 MOD 1 РРРР -• + € MOD 16 - **6** + **9** MOD 2 PPPP **ффф ффф** MOD 3 pppp РРРР (SF3) ● + ● MOD 14 - 🌢 + 🍥 MOD 4 9999 9999 **ффф ффф** MOD 5 9999 PPPP FUSE (SF1) MOD 6 9999 + **6** −**9** MOD 11 MOD 7 φφφφ φρφφ - • + • MOD 10 MOD 8 РРРР $\phi \phi \phi \phi$ $\phi \phi \phi \phi$ + 6 − MOD 9 FUSE qqqq

16 MODULES/STRING



LEGEND: CONTROL CABLE ____

BUS BAR -

NOTES:

17 MODULES/STRING

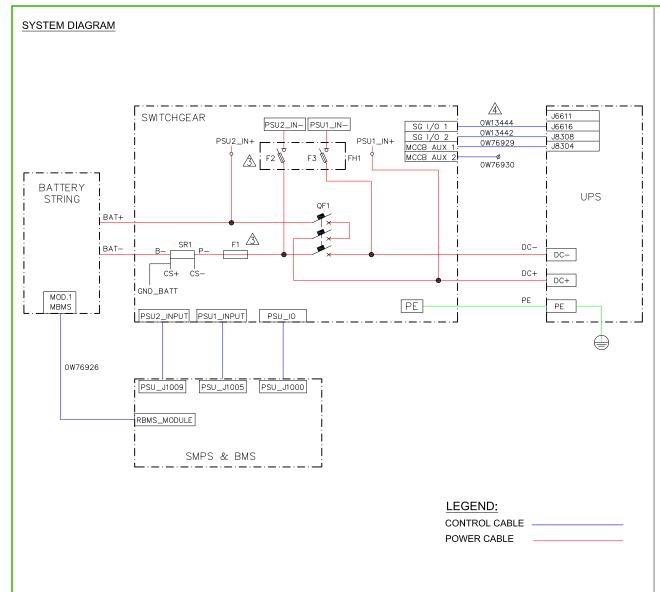
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.

2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.

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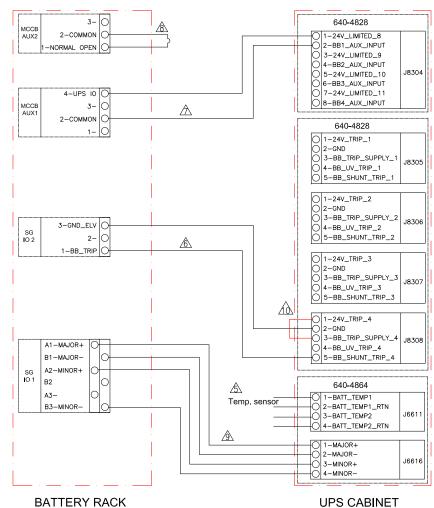


TITLE:	DWG NO: LIBSESMGGVLIEC			REV. O	
Galaxy Lithium—ion Battery co CABLING DIAGRAN	DRAWN:	JAYAPRAKASH	29-APR-21	FIRST	
	ENGINEER:	Fred XIA	29-APR-21	ANGLE	
PROJECT: SUBMITTAL DRAWINGS	SHEET 5 OF 10	APPROVED:	Fred XIA	29-APR-21	PROJECTION



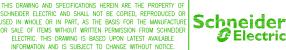
- 1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
- 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- △ 3. F1 FUSE TYPE: Merson MPN PC33UD69V500A or LITTLEFUSE MPN PSR033DS0500X WITH 500A 600Vdc 100KAlC.
- F2 & F3 FUSE TYPE: LITTLEFUSE MPN OSPF003.T OR EQUIVALENT WITH 3A 1000Vdc 20KAIC.
- Δ 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 LIBSEOPTOO1
- WITH 25 Meter CABLE LENGTH IS AVAILABLE FOR PROCUREMENT. △ 5. INSTALL THE TEMPERATURE SENSOR OM-1160 PROVIDED WITH THE UPS IN THE BATTERY ROOM.
- △ 6. USE THE PROVIDED OW13442 TO CONNECT UPS BB_TRIP CONTACT.
- △7. USE THE PROVIDED 0W76929 TO CONNECT MCCB AUX 1 TO UPS.
- A. USE THE PROVIDED 0W76930 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 J8308.
- 11. THE SYSTEM BMS IS LOCATED IN BATTERY RACK 1 ONLY.

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



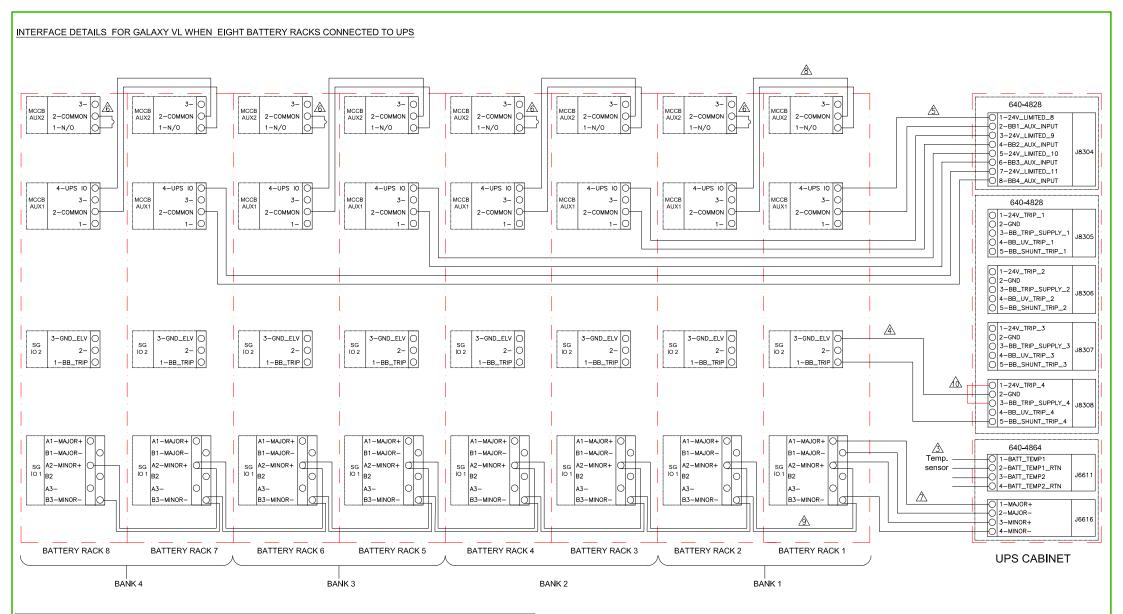
	Cable Tray	Installation	
UPS	Recommended Cable Size	Max Number of LIB Racks	
	Recommended Cable Size	connected directly	
GVL	185mm² [350kcmil]	8 Racks(*)	
GVL	(Positive, Negative, Ground)	o nacks()	

*Fuse is required when more than 8 Battery Racks are connected directly. (contact Application Engineering Team for moe than 8 battery racks cconfiguration) 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.



	DWG NO:	BSESMG	GVLIEC	REV.
Galaxy Lithium—ion Battery cabinet, GVL IEC SYSTEM DIAGRAM &	DRAWN:	JAYAPRAKASH	29-APR-21	FIRST
INTERFACE DETAILS-1 RACK	ENGINEER:	Fred XIA	29-APR-21	ANGLE
PROJECT: SUBMITTAL DRAWINGS SHEET 6, 0F 10	APPROVED:	Fred XIA	29-APR-21	PROJECTION

PROJECTION



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

NOTES

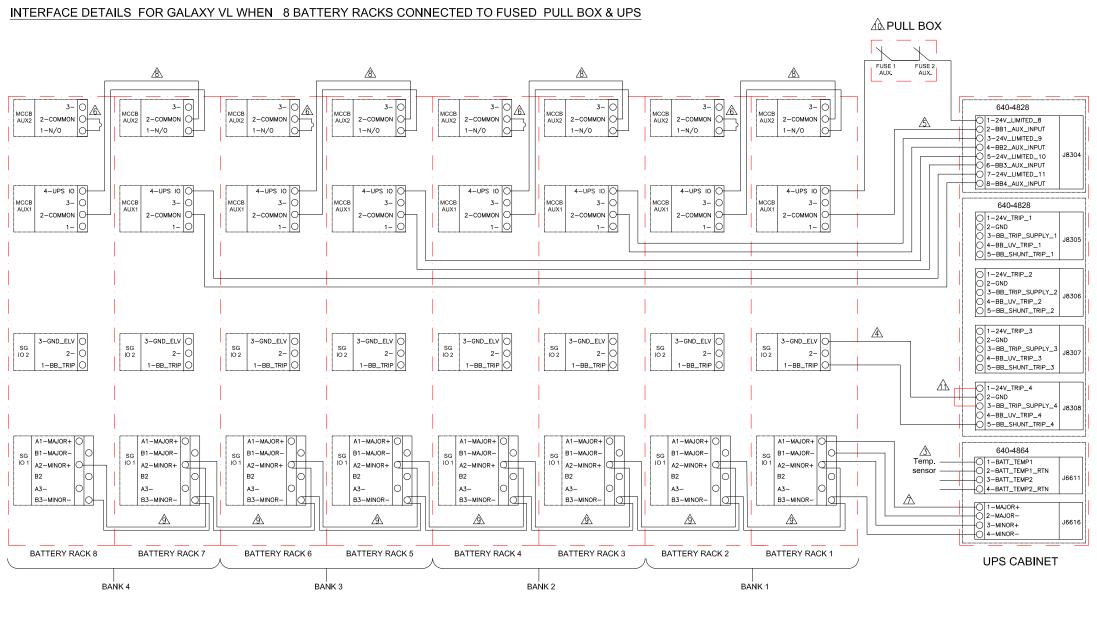
- 1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
- 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- △ 3. INSTALL THE TEMPERATURE SENSOR OM-1160 PROVIDED WITH THE UPS IN THE BATTERY ROOM
- △ 4. USE THE PROVIDED OW13442 TO CONNECT UPS BB_TRIP CONTACT
- △5. USE THE PROVIDED 0W76929 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
- △9. USE THE PROVIDED OW/69/2 TO CONNECT MINOR FAULT ALARM CONTAIN A.S. SHORT PIN 1 AND 3 IN J8308.

11. THE SYSTEM BMS IS LOCATED IN BATTERY RACK 1 ONLY

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TITLE:	. 1 0// 150	DWG NO: LIBSESMGGVLIEC			REV. O
Galaxy Lithium—ion Battery cab INTERFACE DETAILS—8 R	ACKS	DRAWN:	JAYAPRAKASH	29-APR-21	ANGLE
		ENGINEER:	Fred XIA	29-APR-21	PROJECTION
PROJECT: SUBMITTAL DRAWINGS	SHEET 7 OF 10	APPROVED:	Fred XIA	29-APR-21	N.A



NOTES

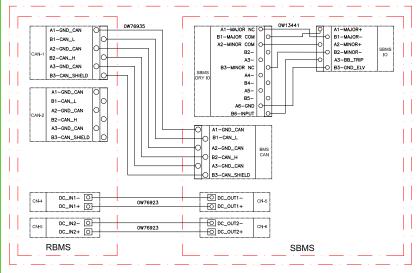
- 1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
- 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- △ 3. INSTALL THE TEMPERATURE SENSOR OM-1160 PROVIDED WITH THE UPS IN THE BATTERY ROOM
- △4. USE THE PROVIDED OW13442 TO CONNECT UPS BB_TRIP CONTACT
- Δ 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 MICES AUX 2 CONTACT FOR LAST RACK IN A BANK.
- \triangle 7. USE THE PROVIDED 0W13444 TO CONNECT MAJOR AND MINOR FAULT CONTACTS.
- △8. USE THE PROVIDED OW76934 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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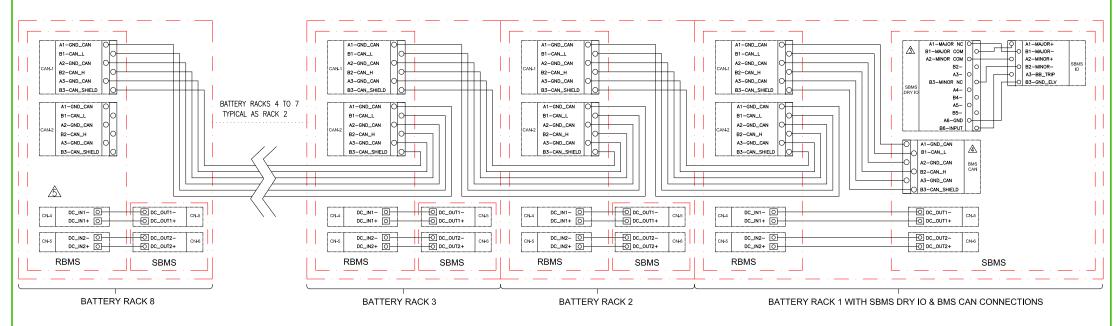
IITLE:	DWG NO: LIBSESMGGVLIEC			REV.
Galaxy Lithium—ion Battery cabinet, GVL IEC INTERFACE DETAILS—WITH PULL BOX	DRAWN:	JAYAPRAKASH	29-APR-21	ANGLE
	ENGINEER:	Fred XIA	29-APR-21	PROJECTION
PROJECT: SUBMITTAL DRAWINGS SHEET 8 OF 10	APPROVED:	Fred XIA	29-APR-21	N.A

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



- 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. SBMS DRY IO IS CONNECTED IN BATTERY RACK 1 ONLY.
- △4. BMS CAN IS CONNECTED IN BATTERY RACK 1 ONLY.
- \$\triangle 5. SLIDE THE CAN BUS LOOP TERMINATION RESISTOR SWITCH TO ON POSITION IN THE LAST ONE BATTERY RACK.

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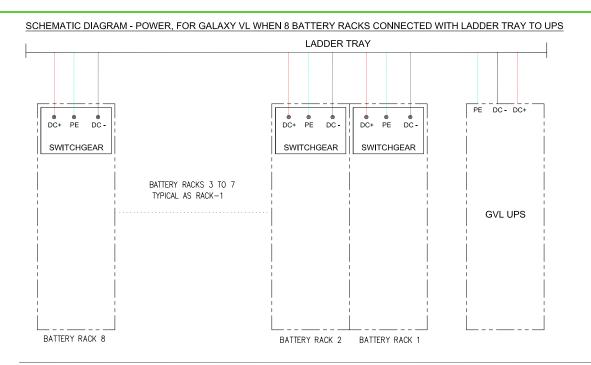


IIILE:	DWG NO: LIBSESMGGVLIEC		
Galaxy Lithium—ion Battery cabinet, GVL IEC INTERFACE DETAILS—SBMS TO RBMS	DRAWN:	JAYAPRAKASH	29-APR-21
	ENGINEER:	Fred XIA	29-APR-21
PROJECT: SUBMITTAL DRAWINGS SHEET 9 OF 10	APPROVED:	Fred XIA	29-APR-21

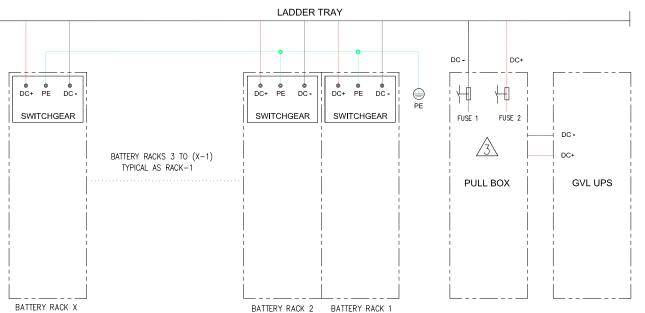
29-APR-21 ANGLE

29-APR-21 N.A

PROJECTION



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



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 185mm²/350kcmil				

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		

NOTES:

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2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK \$\triangle 3\$. REFER TO PAGE-6 FOR MORE DETAILS REGARDING CONNECTIONS,

CONFIGURATIONS AND RACK'S SHORT CIRCUIT RATING RMS VALUE.

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TLE: Galaxy Lithium-ion Battery cabinet, GVL IEC SCHEMATIC DIAGARAM	DWG NO: LIBSESMGGVLIEC			REV. O
	DRAWN:	JAYAPRAKASH	29-APR-21	ANGLE
	ENGINEER:	Fred XIA	29-APR-21	PROJECTION
ROJECT: SUBMITTAL DRAWINGS SHEET 10 OF 10	APPROVED:	Fred XIA	29-APR-21	N.A