

△ 1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.

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

3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS]

△4. A MINIMUM OF 39.37 Inches [1000mm] FRONT, 7.87 Inches [200mm] TOP CLEARANCE REQUIRED. 3.94 Inches [100mm] 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 36.38 Ib [16.5 kg].

8. COLOR: RAL9003, GLOSS LEVEL 85%.

9. PROTECTION CLASS: IP20

10. OPERATING TEMPERATURE: 64 - 82°F [18 - 28°C]. TO OPTIMIZE THE LIFE OF BATTERY, IT IS RECOMMENDED TO MAINTAIN 77°F [25°C].

△11. THIS INFORMATION PROVIDES APPROXIMATE CENTER OF GRAVITY CALCULATION. 12. BATTERY RACKS CAN BE CONNECTED SIDE BY SIDE AND BACK TO BACK. REFER TO INSTALLATION MANUAL FOR DETAILS.

	WEIGHT IN lb [kg]		COG IN Inch [mm]					
SKU NUMBER Empty Fully		Fully	Empty Rack			Fully loaded Rack		
	Rack	loaded	X-diection	Y-direction	z-direction	X-diection	Y-direction	Z-direction
LIBSESMG17UL	465 [211]	1080 [490]	12.66 [321.5]	40.61 [1031.5]	12.25 [311.2]	12.56 [319]	39.89 [962.3]	10.99 [279.2]

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Schnoidor
Schneider
Electric

TITLE:	DWG NO: LIBSESMGGVXUL		
Galaxy Lithium—ion Battery cabinet, GVX UL GENERAL ARRANGEMENT	DRAWN BY: JAYAPRAKASH 27-MAY-21		
	ENGINEER: Fred XIA/PAUL J 27-MAY-21		
PROJECT: SUBMITTAL DRAWINGS SHEET 1 OF 13	APPROVED Birred XIA/JEFFREY P 27-MAY-21		

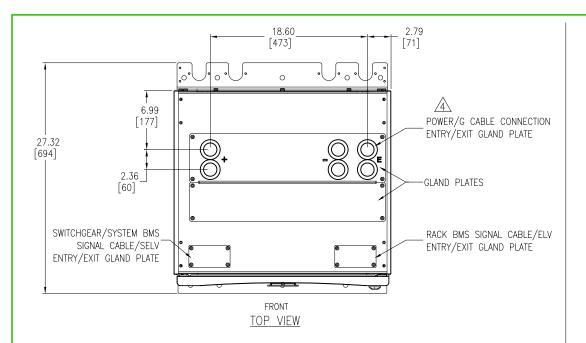
DWC NO.

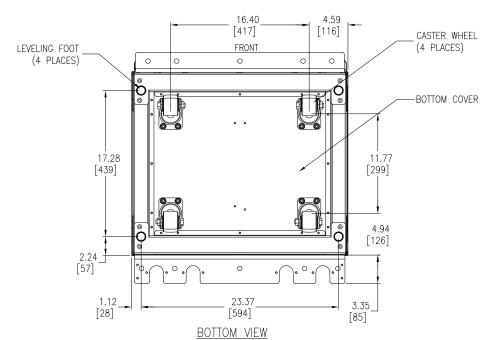
REV.

THIRD

ANGLE

PROJECTION



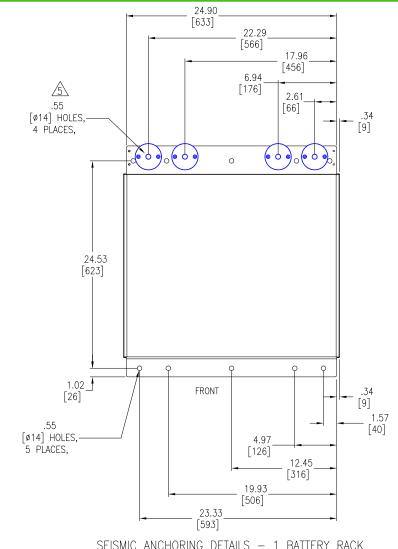


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- 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- 3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS]
- riangle4. DO NOT DRILL/PUNCH HOLES WITH THE GLAND PLATES INSTALLED.

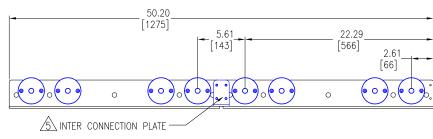
REMOVE THE GLAND PLATE FROM BATTERY RACK BEFORE DRILLING/PUNCHING. DRILL/PUNCH HOLES ACCORDING TO THE LABEL ON THE GLAND PLATE. REMOVE THESE GLAND PLATES FOR TOP HAT CABLE ENTRY INSTALLATION.

△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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SEISMIC ANCHORING DETAILS - 1 BATTERY RACK



SEISMIC ANCHORING DETAILS FOR MORE THAN ONE BATTERY RACK

Schneider Electric

	LIBSESMGGVXUL				
Galaxy Lithium—ion Battery cabinet, GVX UL TOP/BOTTOM VIEW & ANCHORING DETAILS	DRAWN BY:	JAYAPRAKASH	27-MAY-21		
,	ENGINEER:	Fred XIA/PAUL J	27-MAY-21		

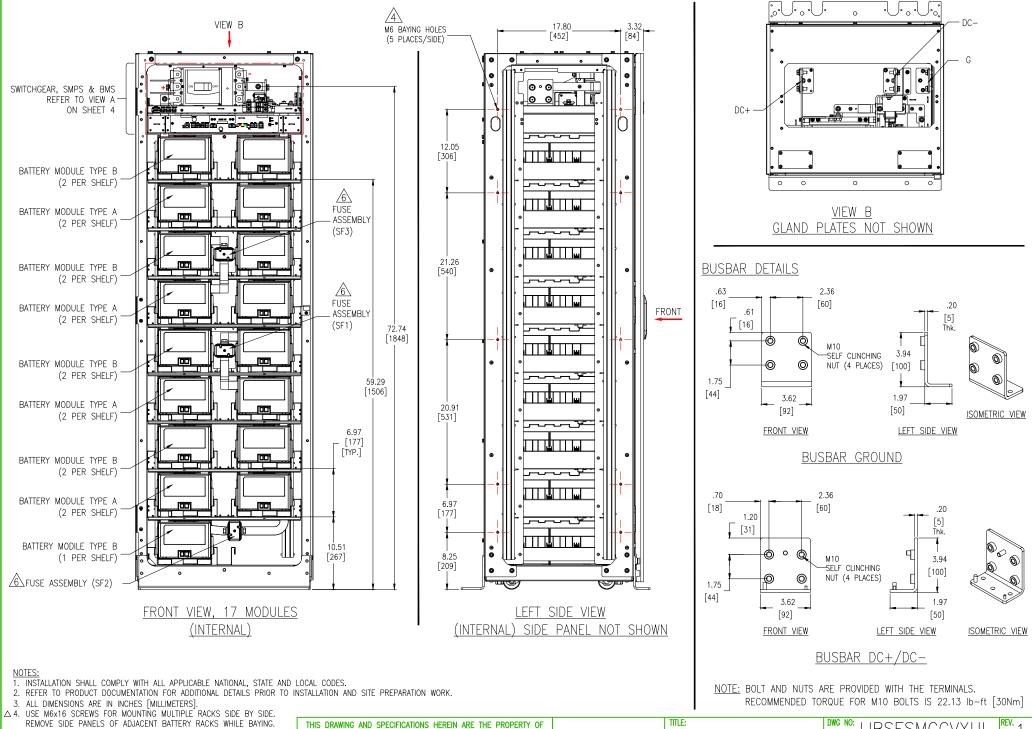
TREV.

THIRD

ANGLE

PROJECTION

PROJECT: SUBMITTAL DRAWINGS SHEET 2 OF 13 APPROVED BYREE XIA/JEFFREY P 27-MAY-21

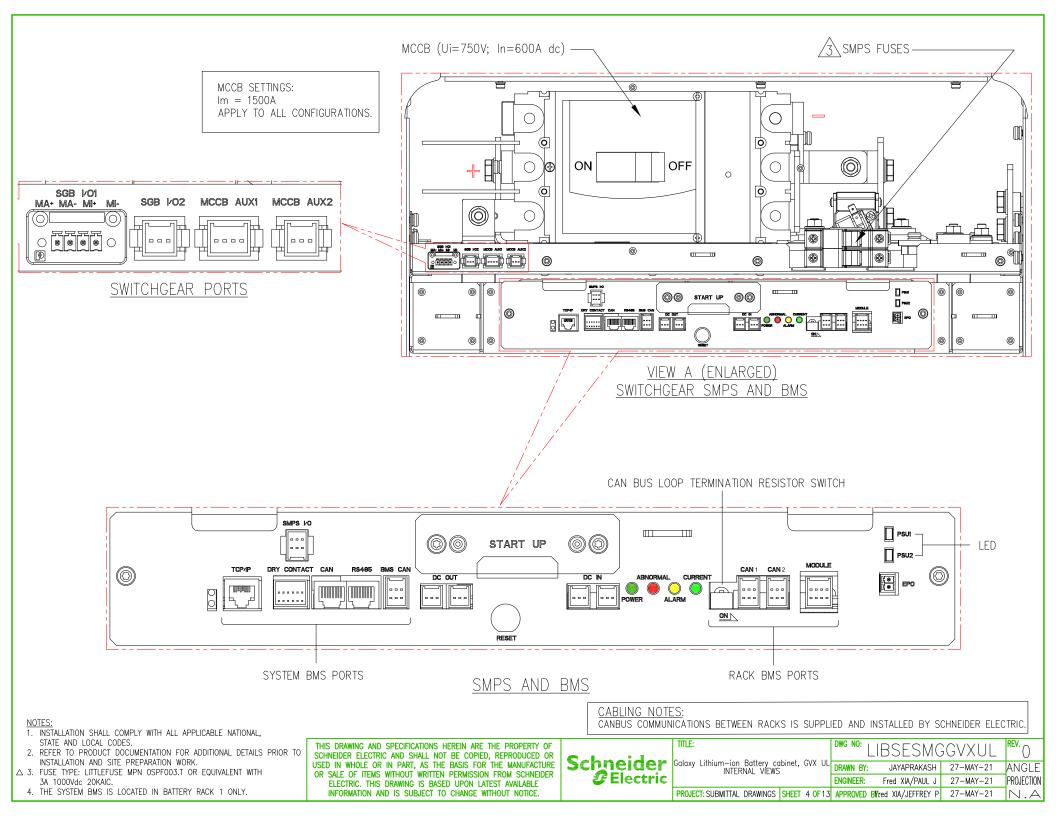


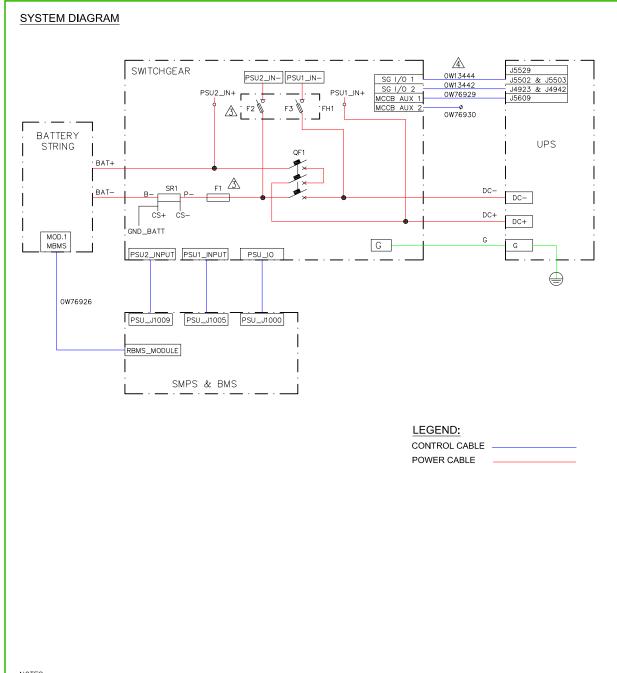
5. THE SYSTEM BMS IS LOCATED IN BATTERY RACK 1 ONLY. SCHNEIDER ELECTRIC AND SHALL NOT BE COPIED, REPRODUCED OR △6. FUSE TYPE: Merson MPN PC33UD69V500TF OR USED IN WHOLE OR IN PART, AS THE BASIS FOR THE MANUFACTURE LITTLEFUSE MPN PSR033FL0500Z WITH 500A 600Vdc 100KAIC. OR SALE OF ITEMS WITHOUT WRITTEN PERMISSION FROM SCHNEIDER ELECTRIC. THIS DRAWING IS BASED UPON LATEST AVAILABLE 7. SOME STRUCTURAL DETAILS HAVE BEEN OMITTED FOR THE PURPOSE OF CLARITY. INFORMATION AND IS SUBJECT TO CHANGE WITHOUT NOTICE

Schneider Electric

Galaxy Lithium—ion Battery cabinet, GVX UI INTERNAL VIEWS

19-MAY-23 THIRD DRAWN BY: RANJITHA SHERRY L E 22-MAY-23 **ANGLE ENGINEER:** PROJECTION PROJECT: SUBMITTAL DRAWINGS SHEET 3 OF 13 APPROVED BY: RICK ZHANG 22-MAY-23





CABLING DIAGRAM, 17 MODULES/STRING BATT+ BATT-+ 6 - 9 MOD 17 MOD 1 рррр рррр рррр MOD 2 рррр фффф рррр `**o** −**⊙**− + 0 - 0 MOD 15 MOD 3 рррр FUSE (SF3) - 🔞 + 🔞 ⊕ + ⊕ MOD 14 MOD 4 рррр рррр ффф - MOD 13 MOD 5 pppp РРРР $\phi \phi \phi \phi$ FUSE MOD 6 QQQQ фффф pppp + **6** −**9** MOD 11 MOD 7 рррр рррр - 🌳 + 🄞 MOD 10 -∳ +⊚ MOD 8 PPPP $\phi \phi \phi$ ффф **р**орр F 6 - 0 MOD 9 FUSE (SF2) QQQQ фффф LEGEND:

- 1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
- 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.

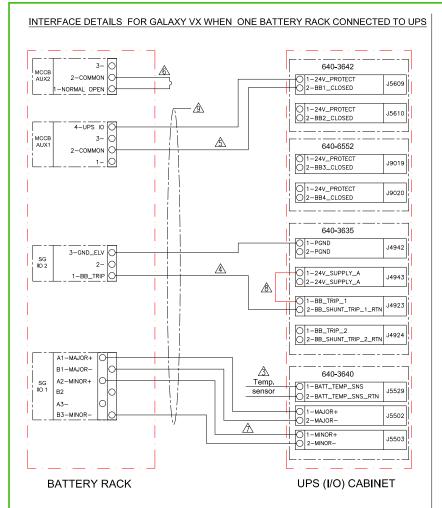
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TITLE:				DWG
Galaxy	Lithium—ion Battery cabinet, SYSTEM/CABLING DIAGRAM	GVX	UL	DRA
	,			FNG

BUS BAR

IBSESMGGVXUL AWN BY: JAYAPRAKASH 27-MAY-21 ANGLE Fred XIA/PAUL J 27-MAY-21 PROJECTION IGINEER: PROJECT: SUBMITTAL DRAWINGS SHEET 5 OF 13 APPROVED BIFred XIA/JEFFREY P 27-MAY-21



	Cable Tray	Installation	Conduit Connection		
UPS(I/O) CABINET	Recommended Cable Size	Max Number of LIB Racks	Recommended Cable Size	Max Number of LIB Racks	
	Recommended Cable Size	connected directly	Recommended Cable Size	connected directly	
GVX with 750kW IOC		Max 8 Racks		Max 4 Racks(*)	
(obsolete-for LIB retrofit)		IVIAX O IVACKS		IVIAX 4 NACKS()	
GVX with 1000kW IOC	350kcmil (pos, neg, ground)	Max 12 Racks	Parallel 250kcmil at 75°C for	Max 6 Racks(*)	
GVX with 1250kW IOC	330kcmiii (pos, neg, ground)	Max 12 Racks (**)	ETO Top Hat Option	Max 7 Racks(*) (**)	
GVX with 1500kW IOC		Max 17 Racks (***)		Max 10 Racks(*)	

- * With the parallel conductors and ETO Top Hat Option.
- ** 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

according to the table below						
		per Bank				
Number of	MCCB's AUX	MCCB's AUX	MCCB's AUX contact	MCCB's AUX		
Strings	contact serialized	contact serialized	serialized on AUX in	contact serialized		
	on AUX in Bank1	on AUX in Bank2	Bank3	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		

CONTACT APPLICATION TEAM FOR CONFIGURATION WITH MORE THAN 17 RACKS

TITLE:

NOTES:

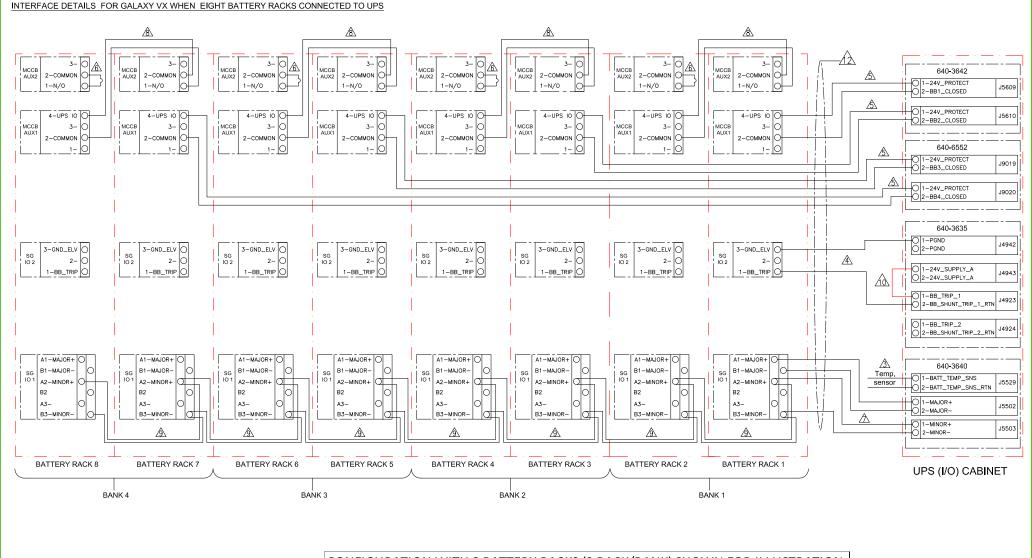
- 1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
- 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- Δ 3. INSTALL THE TEMPERATURE SENSOR OM-1160 PROVIDED WITH THE UPS IN THE BATTERY ROOM.
- △4. USE THE PROVIDED OW13442 CABLE KIT TO CONNECT SG IO 2 AND UPS BB_TRIP CONTACTS TO FIELD WIRING FROM UPS.
- △5. USE THE PROVIDED OW76929 CABLE KIT TO CONNECT MCCB AUX 1 TO FIELD WIRING FROM UPS.
- △ 6. USE THE PROVIDED 0W76930 TO CONNECT MCCB AUX 2 CONTACT.
- ∧ 7. USE THE PROVIDED 0W13444 CABLE KIT TO CONNECT MAJOR & MINOR FAULT CONTACTS TO FIELD WIRING FROM UPS.
- △ 8. SHORT PIN 1 IN J4923 AND J4943.
- △9. FIELD WIRING IS PROVIDED BY OTHERS AND SHALL CONNECT TO TERMINAL BLOCKS BY SE FIELD SERVICE. CONDUCTORS SHALL BE CAREFULLY LABELED & PULLED WITHIN 6 inches [152.4mm] OF FINAL TERMINATION.

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Galaxy Lithium—ion Battery cabinet, GVX UL INTERFACE DETAILS FOR 1 RACK	DRAW
	ENGIN

REV. IBSESMGGVXUL JAYAPRAKASH 19-0CT-21 ANGLE PROJECTION NEER: Fred XIA/PAUL J 15-N0V-21 PROJECT: SUBMITTAL DRAWINGS SHEET 6 OF 13 APPROVED BIFTED XIA/JEFFREY P 15-N0V-21



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

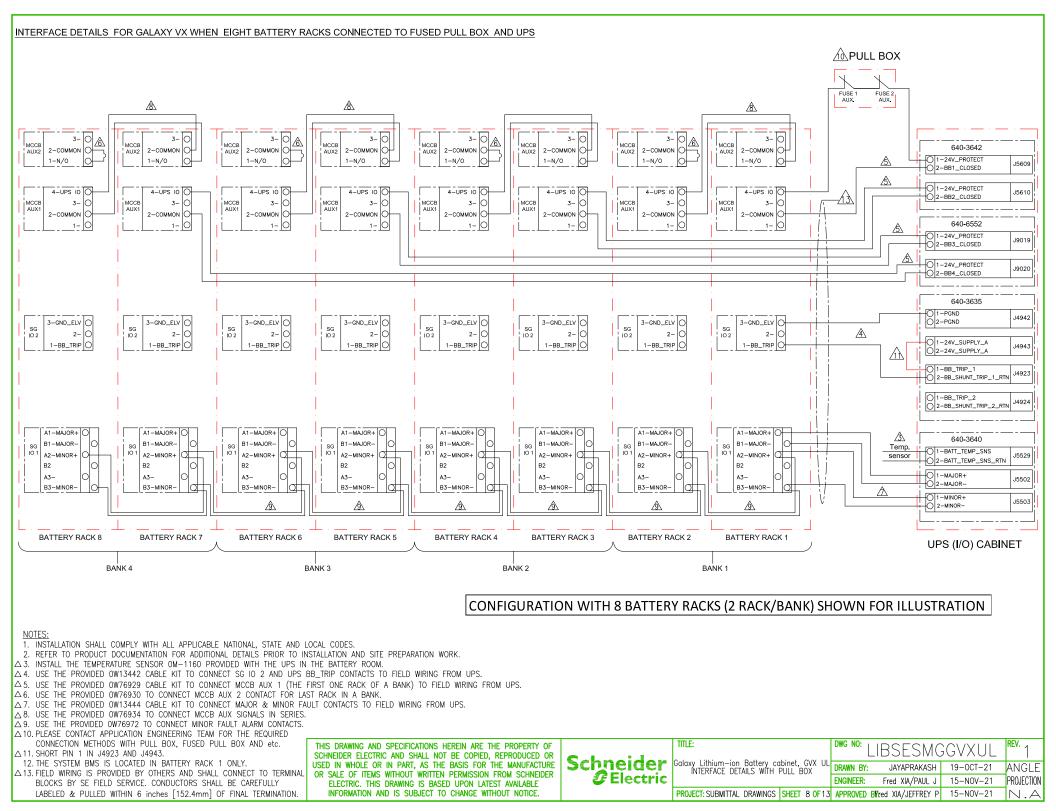
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- △ 3. INSTALL THE TEMPERATURE SENSOR OM-1160 PROVIDED WITH THE UPS IN THE BATTERY ROOM.
- △4. USE THE PROVIDED OW13442 CABLE KIT TO CONNECT SG IO 2 AND UPS BB_TRIP CONTACTS TO FIELD WIRING FROM UPS.
- Δ 5. USE THE PROVIDED OW76929 CABLE KIT TO CONNECT MCCB AUX 1 (THE FIRST ONE RACK OF A BANK) TO FIELD WIRING FROM UPS.
- USE THE PROVIDED 0W76930 TO CONNECT MCCB AUX 2 CONTACT FOR LAST RACK IN A BANK.
- △7. USE THE PROVIDED OW13444 CABLE KIT TO CONNECT MAJOR & MINOR FAULT CONTACTS TO FIELD WIRING FROM UPS.
- △8. USE THE PROVIDED OW76934 TO CONNECT MCCB AUX SIGNALS IN SERIES
- \triangle 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.
- △12. FIELD WIRING IS PROVIDED BY OTHERS AND SHALL CONNECT TO TERMINAL BLOCKS BY SE FIELD SERVICE. CONDUCTORS SHALL BE CAREFULLY LABELED & PULLED WITHIN 6 inches [152.4mm] OF FINAL TERMINATION

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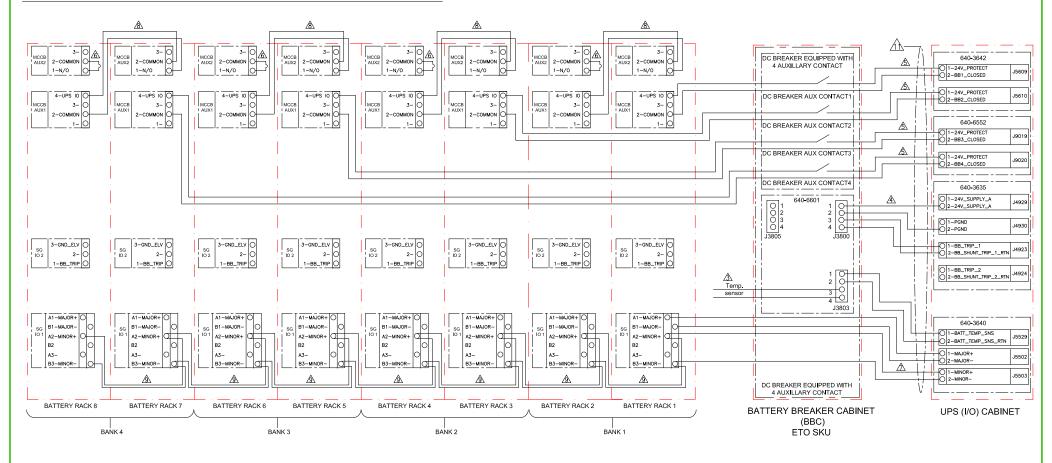


TITLE:		IBSESMO	GGVXUL	REV. 1
Galaxy Lithium—ion Battery cabinet, GVX UL INTERFACE DETAILS—8 RACK	DRAWN BY:	JAYAPRAKASH	19-0CT-21	ANGLE
	ENGINEER:	Fred XIA/PAUL J	15-NOV-21	PROJECTION

15-N0V-21



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:

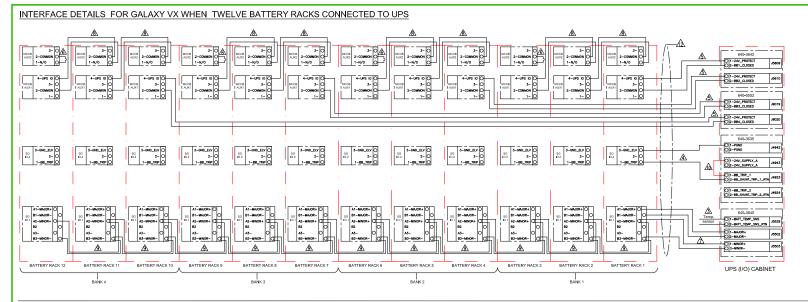
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- Δ 3. INSTALL THE TEMPERATURE SENSOR OM-1160 PROVIDED WITH THE UPS IN THE BATTERY ROOM.
- △4. USE THE PROVIDED OW13442 CABLE KIT TO CONNECT SG IO 2 AND UPS BB_TRIP CONTACTS TO FIELD WIRING FROM UPS.
- △5. USE THE PROVIDED OW76929 CABLE KIT TO CONNECT MCCB AUX 1 (THE FIRST ONE RACK OF A BANK) TO FIELD WIRING FROM UPS.
- riangle6. USE THE PROVIDED 0W76930 TO CONNECT MCCB AUX 2 CONTACT FOR LAST RACK IN A BANK.
- △7. USE THE PROVIDED OW13444 CABLE KIT TO CONNECT MAJOR & MINOR FAULT CONTACTS TO FIELD WIRING FROM UPS.
- △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.
- △11. FIELD WIRING IS PROVIDED BY OTHERS AND SHALL CONNECT TO TERMINAL BLOCKS BY SE FIELD SERVICE. CONDUCTORS SHALL BE CAREFULLY LABELED & PULLED WITHIN 6 inches [152.4mm] OF FINAL TERMINATION.

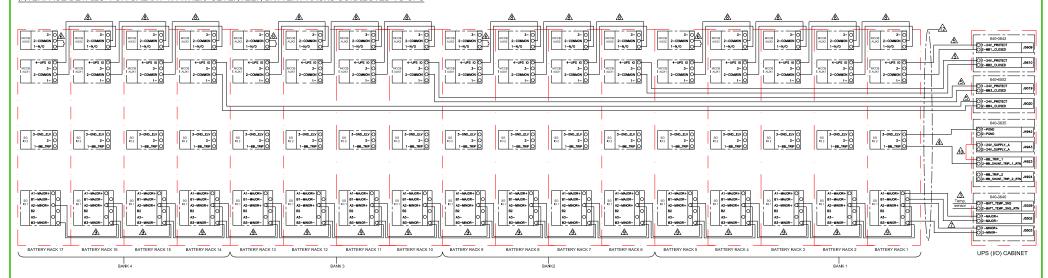
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TITLE:	DWG NO: LIBSESMG	GVXUL REV. 1
Galaxy Lithium—ion Battery cabinet, GVX INTERFACE DETAILS WITH BBC	DRAWN BY: JAYAPRAKASH	19-0CT-21 ANGLE
		15-NOV-21 PROJECTION
PROJECT: SUBMITTAL DRAWINGS SHEET 9 OF	3 APPROVED BFred XIA/JEFFREY P	15-NOV-21 N.△



INTERFACE DETAILS FOR GALAXY VX WHEN SEVENTEEN BATTERY RACKS CONNECTED TO UPS



NOTES

- 1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES,
- 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- Δ 3. INSTALL THE TEMPERATURE SENSOR OM-1160 PROVIDED WITH THE UPS IN THE BATTERY ROOM.
- △4. USE THE PROVIDED OW13442 CABLE KIT TO CONNECT SG IO 2 AND UPS BB_TRIP CONTACTS TO FIELD WIRING FROM UPS.
- .5. USE THE PROVIDED OW76929 CABLE KIT TO CONNECT MCCB AUX 1 (THE FIRST ONE RACK OF A BANK) TO FIELD WIRING FROM UPS.
- riangle 6. USE THE PROVIDED 0W76930 TO CONNECT MCCB AUX 2 CONTACT FOR LAST RACK IN A BANK.
- Δ7. USE THE PROVIDED OW13444 CABLE KIT TO CONNECT MAJOR & MINOR FAULT CONTACTS TO FIELD WIRING FROM UPS.
- △8. USE THE PROVIDED OW76934 TO CONNECT MCCB AUX SIGNALS IN SERIES.
- \triangle 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.
- △12. FIELD WIRING IS PROVIDED BY OTHERS AND SHALL CONNECT TO TERMINAL BLOCKS BY SE FIELD SERVICE. CONDUCTORS SHALL BE CAREFULLY LABELED & PULLED WITHIN 6 inches [152.4mm] OF FINAL TERMINATION.

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CONFIGURATION WITH 12 & 17 BATTERY RACKS SHOWN FOR ILLUSTRATION . REFER TO PAGE-6 FOR MORE DETAILS REGARDING CONNECTIONS & CONFIGURATIONS.

Schneider Electric

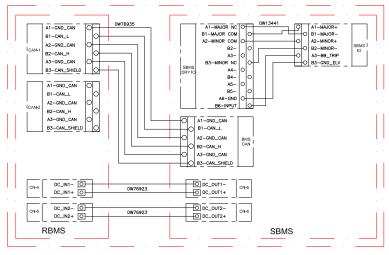
Galaxy	Lithium-ion Battery cabinet GVX
calany	Lithium—ion Battery cabinet, GVX INTERFACE DETAILS WITH BBC

TITLE:

DWG NO:	REV.		
DRAWN BY:	JAYAPRAKASH	19-0CT-21	ANGLE
ENGINEER:	Fred XIA/PAUL J	15-NOV-21	PROJECTION

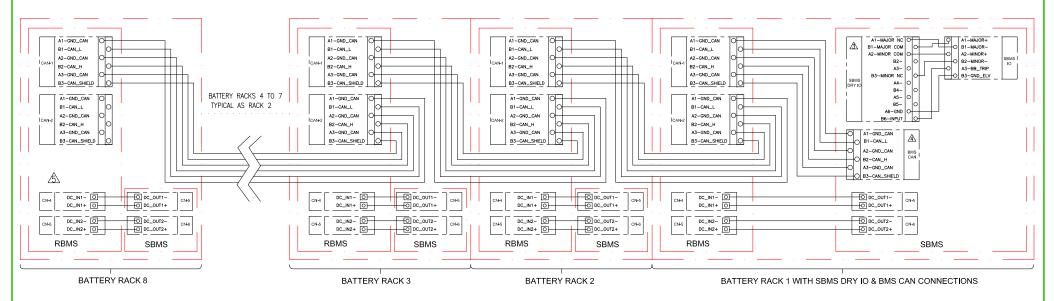
PROJECT: SUBMITTAL DRAWINGS | SHEET 100F13 | APPROVED BIFTED XIA/JEFFREY P | 15-NOV-21

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



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. 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:

	TITLE.	Direc 110.
	Galaxy Lithium—ion Battery cabinet, GVX UL INTERFACE DETAILS—SBMS TO RBMS	DRAWN BY:
П		ELIONIEED.

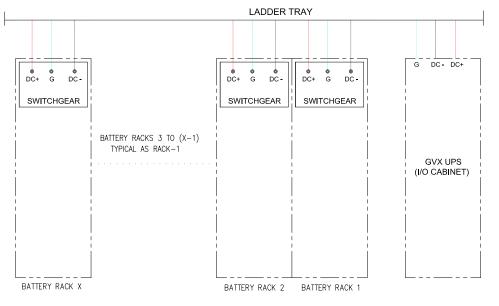
PROJECT: SUBMITTAL DRAWINGS SHEET 110F13 APPROVED BITTED XIA/JEFFREY P

DWG NO: LIBSESMGGVXUL REV. O

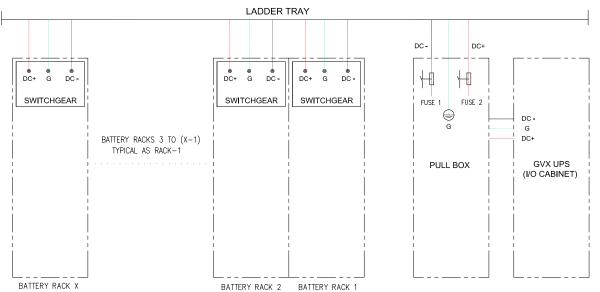
DRAWN BY: JAYAPRAKASH 27-MAY-21 ANGLE
ENGINEER: Fred XIA/PAUL J 27-MAY-21 PROJECTION

27-MAY-21

SCHEMATIC FOR GALAXY VX WHEN BATTERY RACKS CONNECTED WITH LADDER TRAY TO UPS I/O CABINET







ELECTRICAL DATA						
SKU Number/Model	LIBSESMG17UL					
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 maximum allowable cable size is 350kcmil/185mm² Refer to applicable UPS installation manual for recommended cable sizes

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- 3. REFER TO PAGE-6 FOR MORE DETAILS REGARDING CONNECTIONS, CONFIGURATIONS AND RACK'S SHORT CIRCUIT RATING RMS VALUE.

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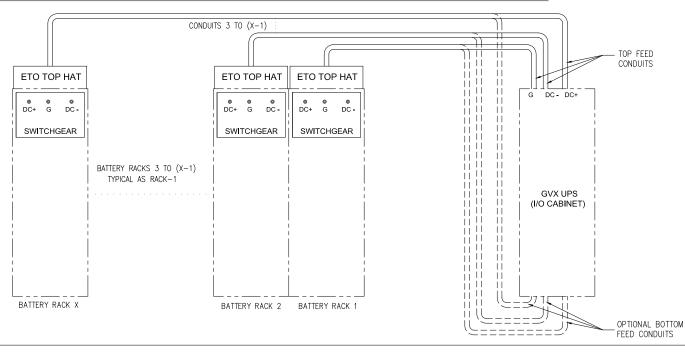


	Galaxy Lithium—ion Battery cabinet, GVX UL SCHEMATIC DIAGRAM WITH LADDER		DWG NO: LIBSESMGGVXUL		
			DRAWN BY	: JAYAPRAKASH	27-MAY-21
			ENGINEER:		27-MAY-21
	PROJECT: SUBMITTAL DRAWINGS	SHEET 120F13	APPROVED	BFred XIA/JEFFREY P	27-MAY-21

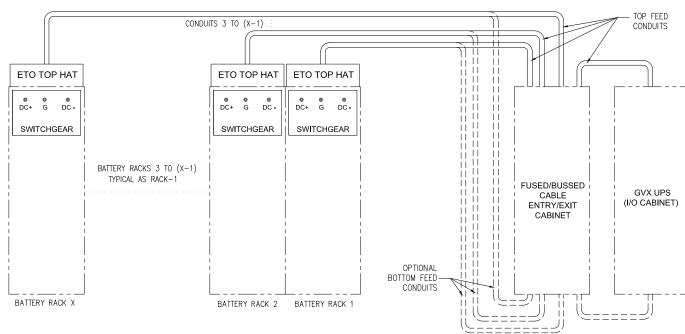
ANGLE

PROJECTION

SCHEMATIC FOR GALAXY VX WHEN BATTERY RACKS CONNECTED WITH TOP HAT & CONDUITS TO UPS I/O CABINET



SCHEMATIC FOR GALAXY VX WHEN BATTERY RACKS CONNECTED WITH TOP HAT, CONDUITS, BUSSED CABINET TO UPS I/O CABINET



- 1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
- 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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Schneider **Electric**

Galaxy Lithium—ion Battery cabinet, GVX UL SCHEMATIC DIAGRAM WITH CONDUITS

TITLE:

DWG NO: IBSESMGGVXUL DRAWN BY: JAYAPRAKASH 27-MAY-21

ANGLE PROJECTION **ENGINEER:** Fred XIA/PAUL J 27-MAY-21 PROJECT: SUBMITTAL DRAWINGS SHEET 130F13 APPROVED BITTED XIA/JEFFREY P 27-MAY-21