

NOTES:

Δ 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.

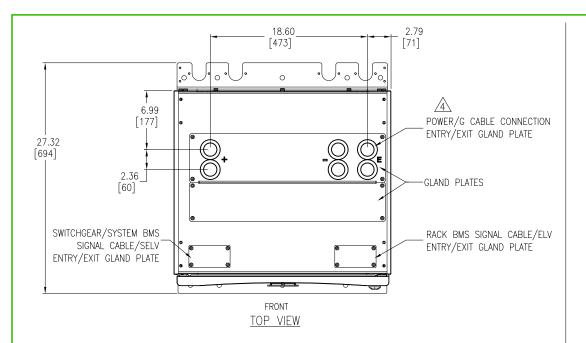
REFER TO INSTALLATION MANUAL FOR DETAILS.

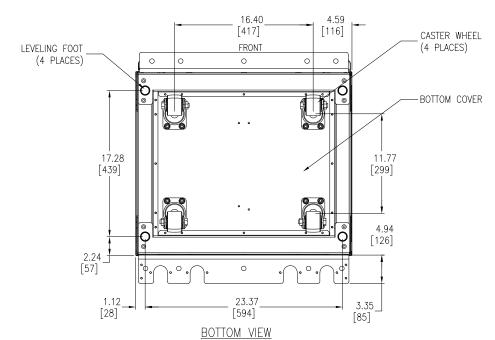
	WEIGHT IN lb [kg]		COG IN Inch [mm]					
SKU NUMBER	Empty	Fully	Empty Rack		Fully loaded Rack			
	Rack	loaded	X-diection	Y-direction	z-direction	X-diection	Y-direction	Z-direction
LIBSESMG13UL	465 [211]	915 [415]	12.66 [321.5]	40.61 [1031.5]	12.25 [311.2]	12.51 [317.8]	41.79 [1061.4]	11.12 [282.4]

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1	Schneider
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1	# Electric
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TITLE: Lithium—ion Battery cabinet	DWG NO: LIBSESMGMWUL			REV.	
Symmetra MW, UL GENERAL ARRANGEMENT	DRAWN BY:	Jayaprakash	10-0CT-21	THIRD	
		ENGINEER:	Fred XIA/Karsten	11-0CT-21	ANGLE
PROJECT: SUBMITTAL DRAWING SHEET 1 (F 9	APPROVED	BY: Fred/Karsten/Jeffrey	11-0CT-21	PROJECTION

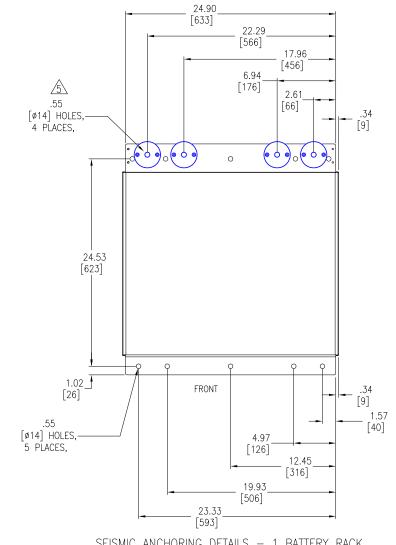




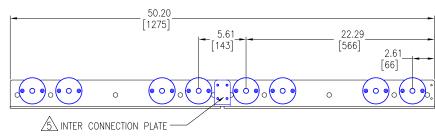
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- 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- 3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS]
- riangle4. DO NOT DRILL/PUNCH HOLES WITH THE GLAND PLATES INSTALLED. REMOVE THE GLAND PLATE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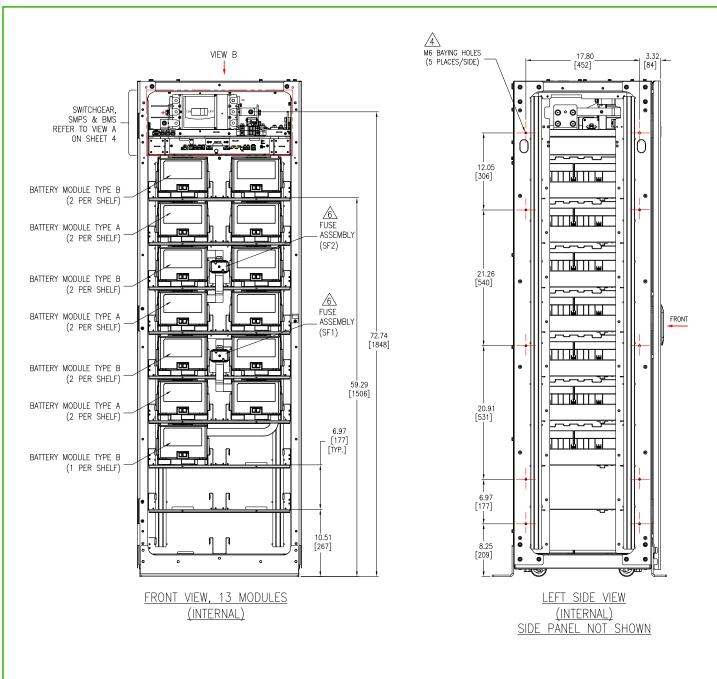


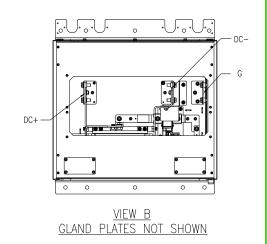


SEISMIC ANCHORING DETAILS FOR MORE THAN ONE BATTERY RACK

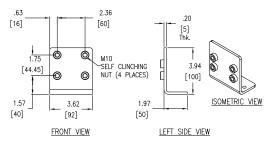


Lithium—ion Battery cabinet	DWG NO: LIBSESM	REV.	
Symmetra MW, UL TOP/BOTTOM VIEW & ANCHORING DETAILS	DRAWN BY: JAYAPRAKASH	10-0CT-21	THIRD
, , , , , , , , , , , , , , , , , , , ,	ENGINEER: Fred XIA/Karsten	11-0CT-21	ANGLE
PROJECT: SUBMITTAL DRAWING SHEET 2 OF 9	APPROVED BY: Fred/Karsten/Jeffrey	11-0CT-21	PROJECTION

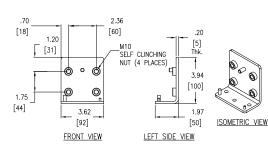








BUSBAR GROUND



BUSBAR DC+/DC-

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

- 1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
- REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- ALL DIMENSIONS ARE IN INCHES [MILLIMETERS]
- △ 4. USE M6x16 SCREWS FOR MOUNTING MULTIPLE RACKS SIDE BY SIDE. REMOVE SIDE PANELS OF ADJACENT BATTERY RACKS WHILE BAYING.
- 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**

Lithium—ion Battery cabinet Symmetra MW, UL INTERNAL VIEWS

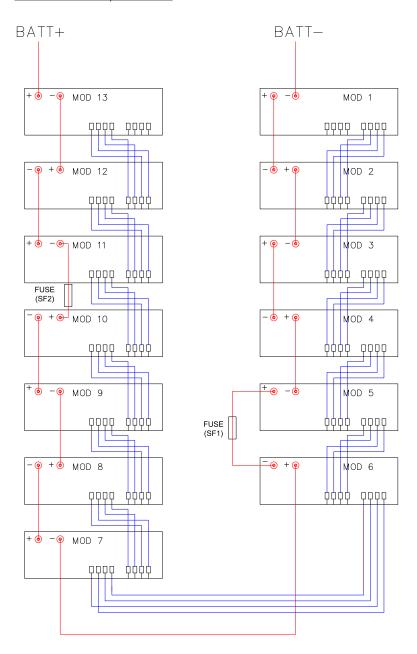
DWG NO: REV. BSESMGMWUI JAYAPRAKASH 10-0CT-21 THIRD DRAWN BY:

PROJECT: SUBMITTAL DRAWING SHEET 3 OF 9 APPROVED BY: Fred/Karsten/Jeffrey

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11-0CT-21 ANGLE Fred XIA/Karsten 11-0CT-21 PROJECTION

13 MODULES/STRING



LEGEND: CONTROL CABLE **BUS BAR**

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

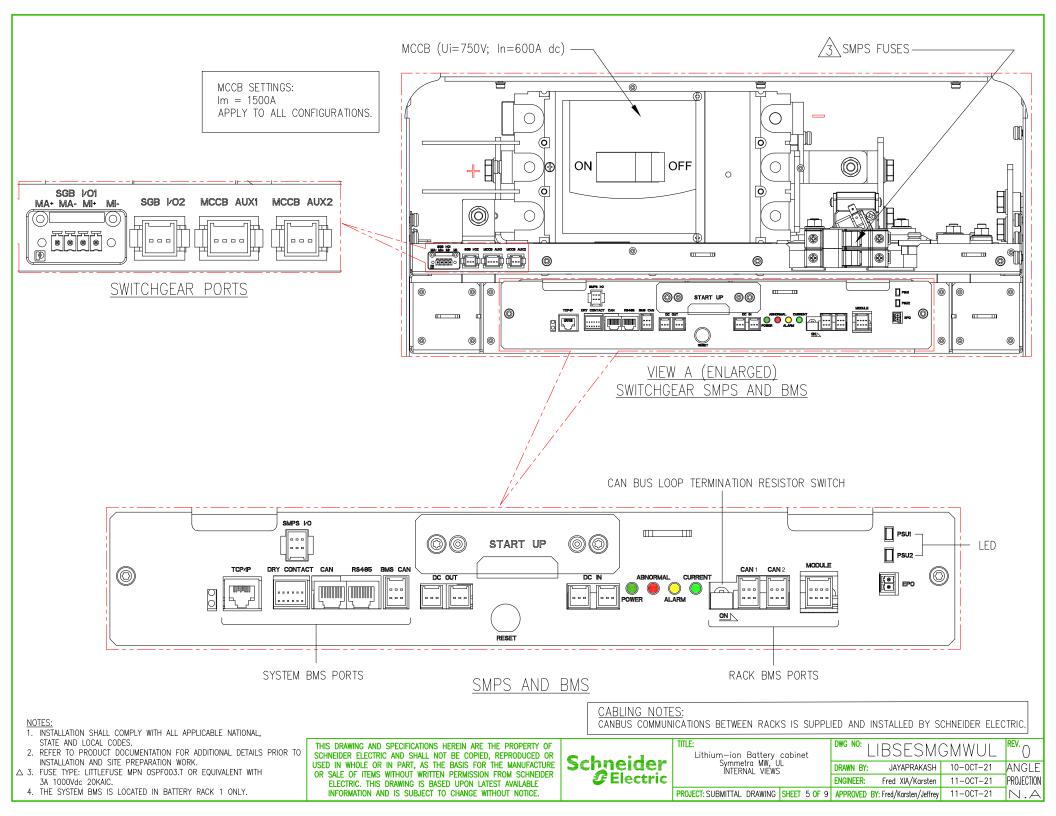
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.

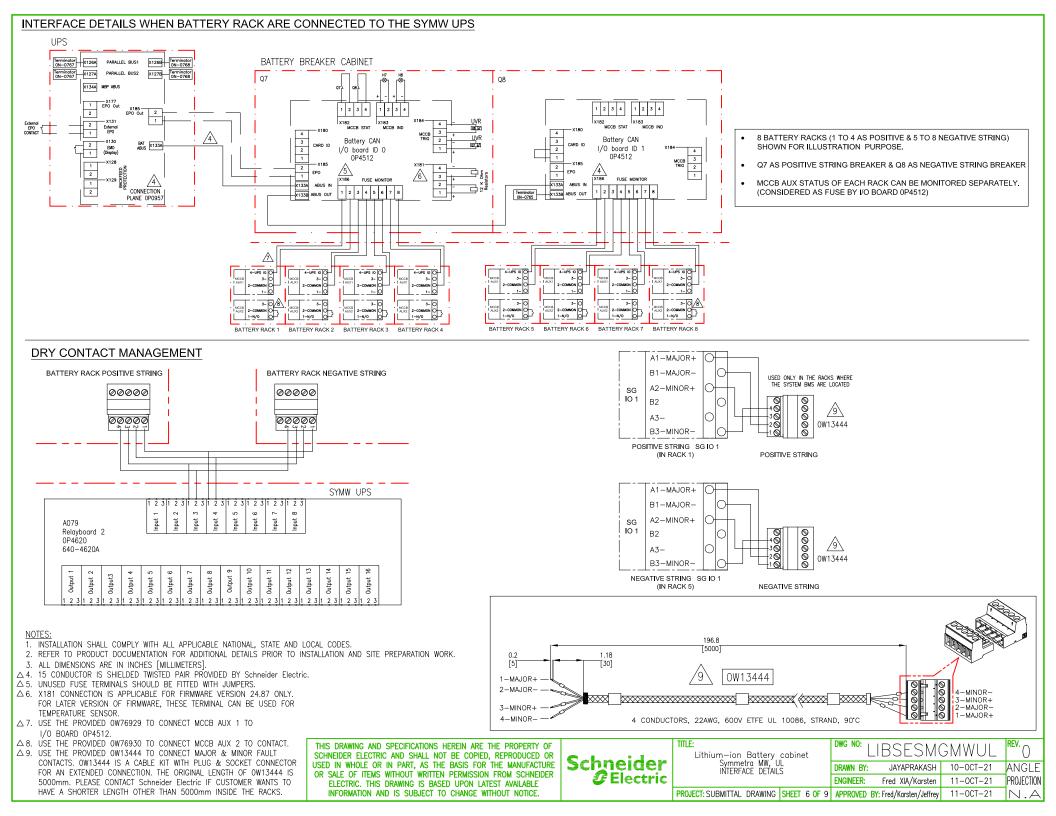
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TITLE			
	Lithium-ion	Battery	cabinet
	Symme	tra MW, l IG DIAGRA	JL
	ĆABLIN	ig diagra	M

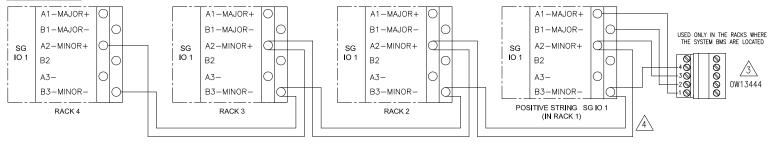
DWG NO:	IBSESM	GMWUL	REV. (
DRAWN BY:	JAYAPRAKASH	10-0CT-21	THI
FNGINFFR:	Fred XIA/Karsten	11-0CT-21	ANG



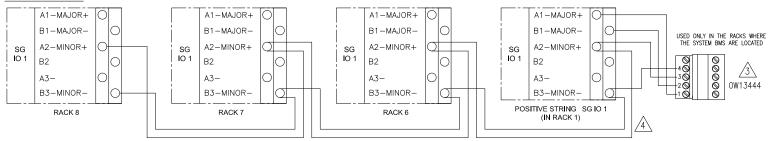


INTERFACE DETAILS WHEN TWO STRINGS CONNECTED TO UPS





NEGATIVE STRING



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. USE THE PROVIDED OW13444 TO CONNECT MAJOR & MINOR FAULT CONTACTS.

 \triangle 4. USE THE PROVIDED 0W76972 TO CONNECT MINOR FAULT ALARM

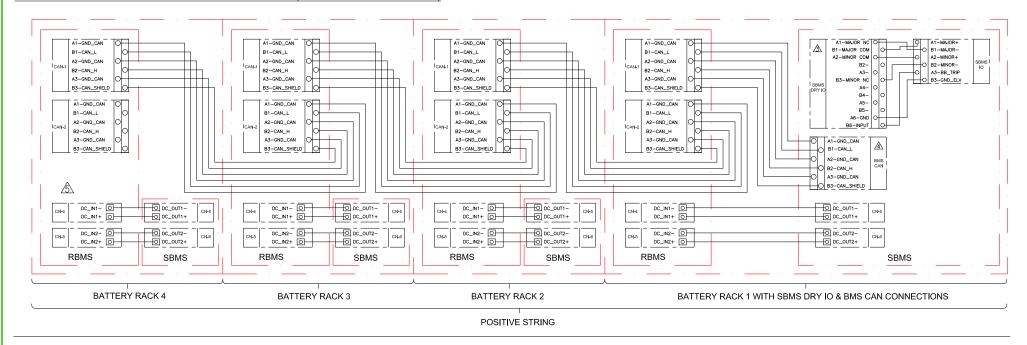
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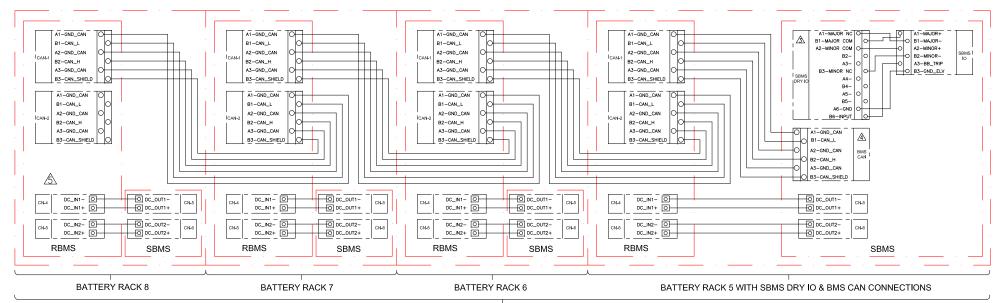


IIILE:
Lithium—ion Battery cabinet
Symmetra MW, UL INTERFACE DETAILS 1
INTERFACE DETAILS 1

TITLE: Lithium—ion Battery cabinet	DWG NO: LIBSESMGMWUL REV. O			
Symmetra MW, UL INTERFACE DETAILS 1	DRAWN BY: JAYAPRAKASH	10-0CT-21	ANGLE	
	ENGINEER: Fred XIA/Karsten	11-0CT-21	PROJECTION	
PROJECT: SUBMITTAL DRAWING SHEET 7 OF	APPROVED BY: Fred/Karsten/Jeffrey	11-0CT-21	N.A	

BMS WIRING DETAILS UP TO EIGHT BATTERY RACKS (FOUR RACKS PER STRING)





NEGATIVE STRING

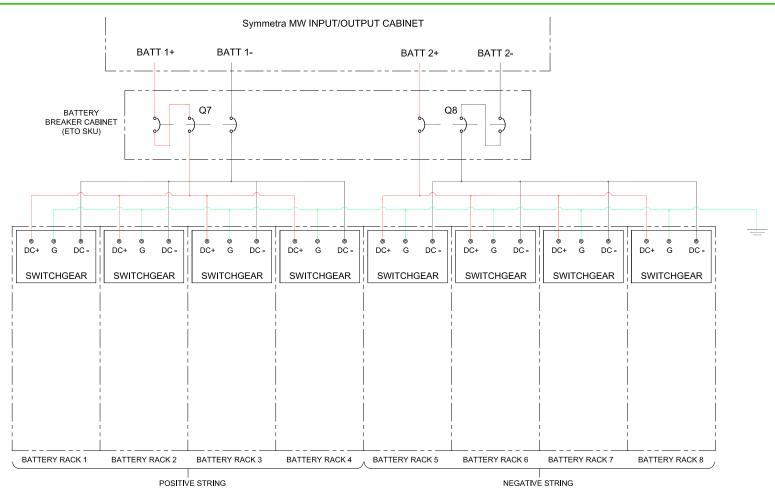
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- INSTALLATION AND SITE PREPARATION WORK.
- △3. SBMS DRY IO IS CONNECTED IN BATTERY RACK 1 OF POSITIVE STRING AND BATTERY RACK 5 OF NEGATIVE STRING ONLY.
- △ 4. BMS CAN IS CONNECTED IN BATTERY RACK 1 OF POSITIVE STRING AND BATTERY RACK 5 OF NEGATIVE STRING ONLY.
- △5. SLIDE THE CAN BUS LOOP TERMINATION RESISTOR SWITCH TO ON POSITION IN THE LAST ONE BATTERY RACK

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Schneider **Electric**

TITLE:
Lithium—ion Battery cabinet Symmetra MW, UL INTERFACE DETAILS—SBMS TO RBMS
Symmetra MW, UL
INTERFACE DETAILS—SBMS TO RBMS

IBSESMGMWUI JAYAPRAKASH 10-0CT-21 ANGLE DRAWN BY: PROJECTION **ENGINEER:** Fred XIA/Karsten 11-0CT-21 PROJECT: SUBMITTAL DRAWING SHEET 8 OF 9 APPROVED BY: Fred/Karsten/Jeffrey 11-OCT-21



8 BATTERY RACKS (1 TO 4 POSITIVE STRING & 5 TO 8 NEGATIVE STRING) SHOWN FOR ILLUSTRATION PURPOSE

Recommended Battery Cable size: 350kcmil (Positive, Negative & Ground)

ELECTRICAL DATA	
SKU Number/Model	LIBSESMG13UL
Number of Battery Modules	13
Number of Type-A Battery Modules	6
Number of Type-B Battery Modules	7
Number of Battery cells in a string	104
Nominal Energy (kWh)	26.5
Nominal Battery Voltage (VDC)	395
Nominal capacity (Ah)	67
Charge current rate (CA rate)	0.7
Float charge Voltage (VDC)	436
End of discharge Voltage (VDC)	312
Maximum continuous discharge power (kW)	140
Peak current at end of discharge (A)	450
Short circuit rating RMS value (kA)	2.9

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- 3. ONE SBMS IS LOCATED IN BATTERY RACK 1 OF POSITIVE STRING AND ANOTHER SBMS IN BATTERY RACK 5 OF NEGATIVE STRING.
- 4. Symmetra MW SOLUTIONS WITH 13 BATTERY MODULES/RACK REQUIRES A MINIMUM OF 1 POSITIVE AND 1 NEGATIVE STRING.
- 5. UP TO 16 BATTERY RACKS (8 STRINGS) CAN BE CONNECTED DEPENDING UPON POWER AND RUNTIME REQUIREMENTS. CONTACT APPLICATION ENGINEERING TEAM FOR CONFIGURATION WITH MORE THAN 8 STRINGS

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HILLE				
	Lithium-ion	Bat	ttery	cabinet
	Symme	tra	MW, l	JL
	SCHEMA	TIC	DIAGR.	ΔM

DWG NO: LIBSE	ESMO	GMWUL	REV.
DRAWN BY: JAYAF	PRAKASH	10-0CT-21	ANGLE
ENGINEER: Fred XI/	\/Karsten	11-0CT-21	PROJECTION
APPROVED BY: Fred/Kar	sten/Jeffrey	11-0CT-21	N.A