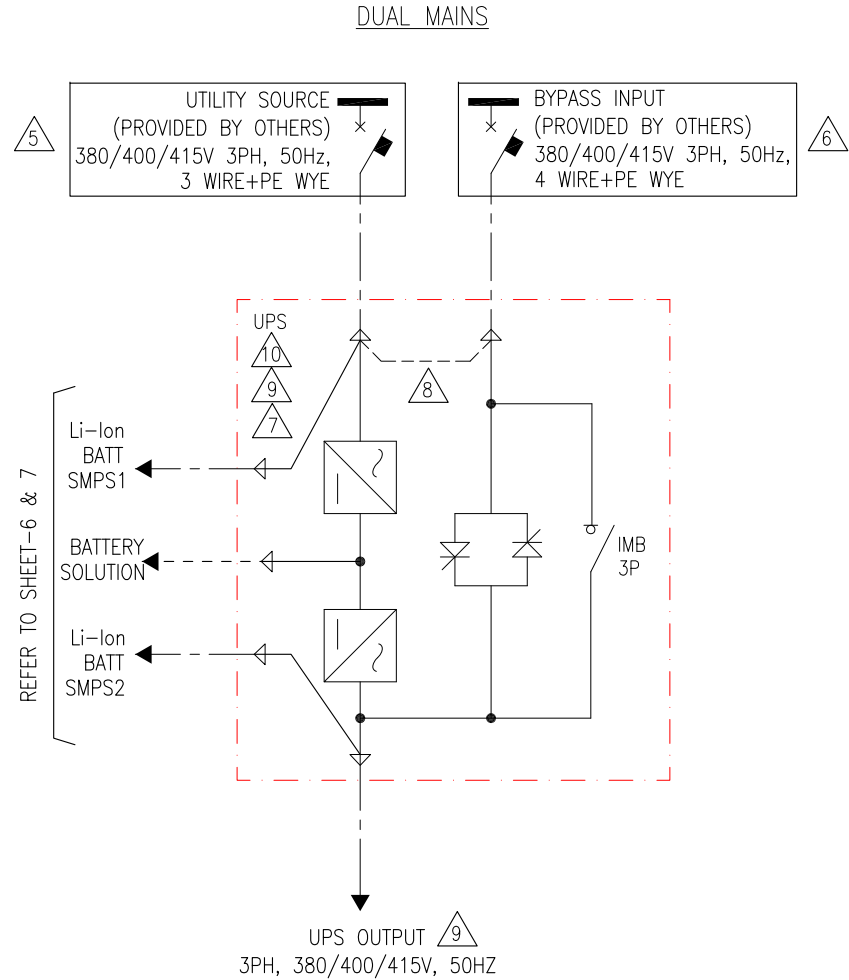
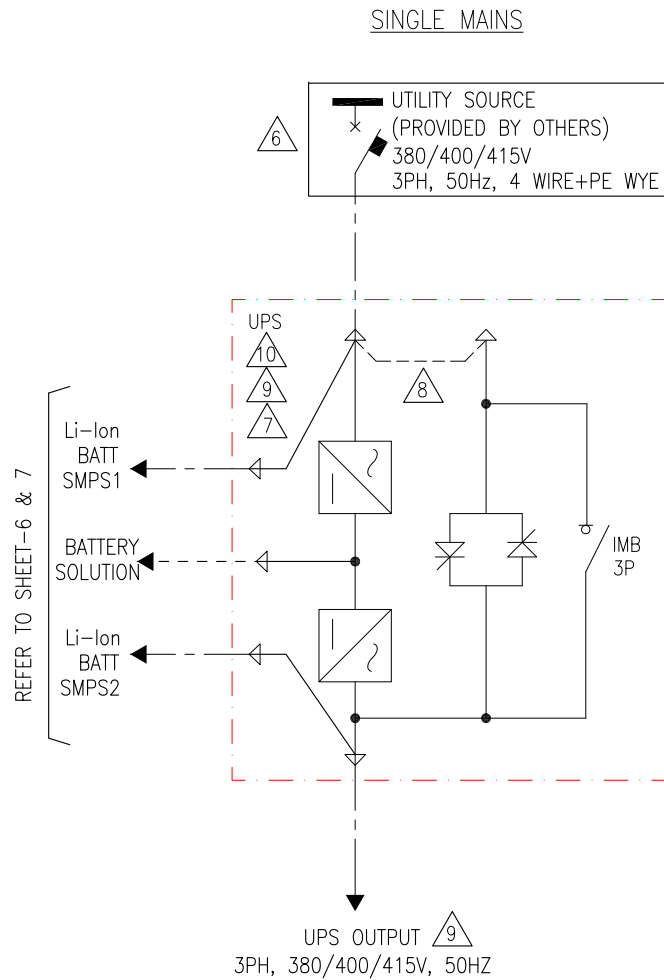


## 1 MOD UPS WITH BATTERY SOLUTION



NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.
3. DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT. REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT LAYOUT.
4. FINAL SELECTIONS ARE RESPONSIBILITY OF ENGINEER OF RECORDS BASED ON INSTALLED CONDITIONS AND SCC/SELECTIVE CO-ORDINATION/ARC-FLASH ANALYSIS.
- △5. INPUT AC SOURCE TO BE 3 WIRE+PE. TN, TT AND IT POWER DISTRIBUTION SYSTEMS WITH NO EARTHED LINE CONDUCTORS ARE SUPPORTED. ONLY FOR DUAL MAINS SYSTEM WITH UPSTREAM 4-POLE BREAKERS: INSTALL AN N CONNECTION WITH INPUT CABLES (L1,L2,L3,N,PE) (TN-S).
- △6. INPUT AC SOURCE TO BE 4 WIRE+PE. TN, TT AND IT POWER DISTRIBUTION SYSTEMS WITH NO EARTHED LINE CONDUCTORS ARE SUPPORTED.
- △7. FOR EARTHING INSTALLATION OF TN-C, HIGH IMPEDANCE SYSTEM & IT REFER TO INSTALLATION MANUAL.
- △8. BUS LINK APPLICABLE FOR SINGLE MAINS ONLY, TO BE REMOVED FOR DUAL MAINS APPLICATION.
- △9. FOR TECHNICAL SPECIFICATIONS, RECOMMENDATIONS AND SKU NUMBERS REFER TO SHEET-8.
- △10. MAXIMUM INPUT SHORT-CIRCUIT WITHSTAND:  $I_{cw}=65\text{ kA}$  RMS SYMMETRICAL.

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF SCHNEIDER ELECTRIC AND SHALL NOT BE COPIED, REPRODUCED OR USED IN WHOLE OR IN PART, AS THE BASIS FOR THE MANUFACTURE 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.

**Schneider**  
**Electric**

**TITLE:** GALAXY VS  
Input: 380/400/415V AC 40-70Hz 3PH SINGLE/DUAL MAINS  
Output: 380/400/415V AC 50/60Hz 3PH 20-150kW  
20-150kW 1 MOD UPS WITHOUT MBP  
SYSTEM ONE LINE DIAGRAM

DWG NO: GVSUPS20K150KHS-SD

DRAWN:	BALA	01-SEP-20
ENGINEER:	H N / P I	09-SEP-20

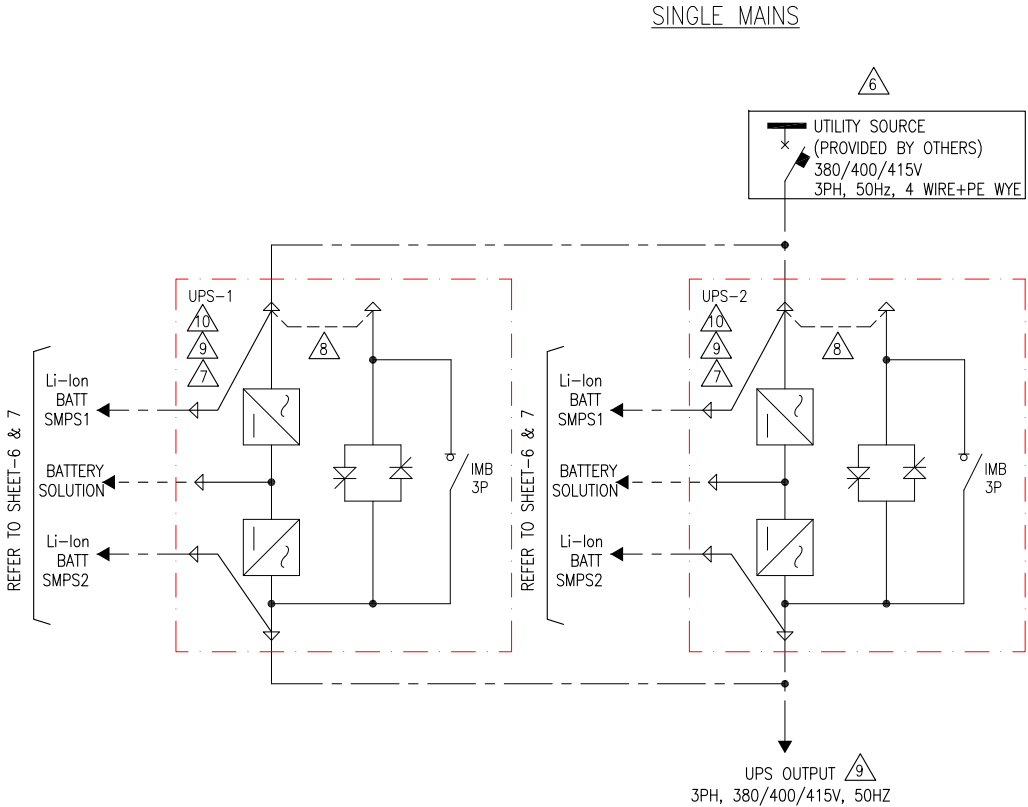
8	APPROVED:	C B	09-SEP-20
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## ANGLE PROJECTION

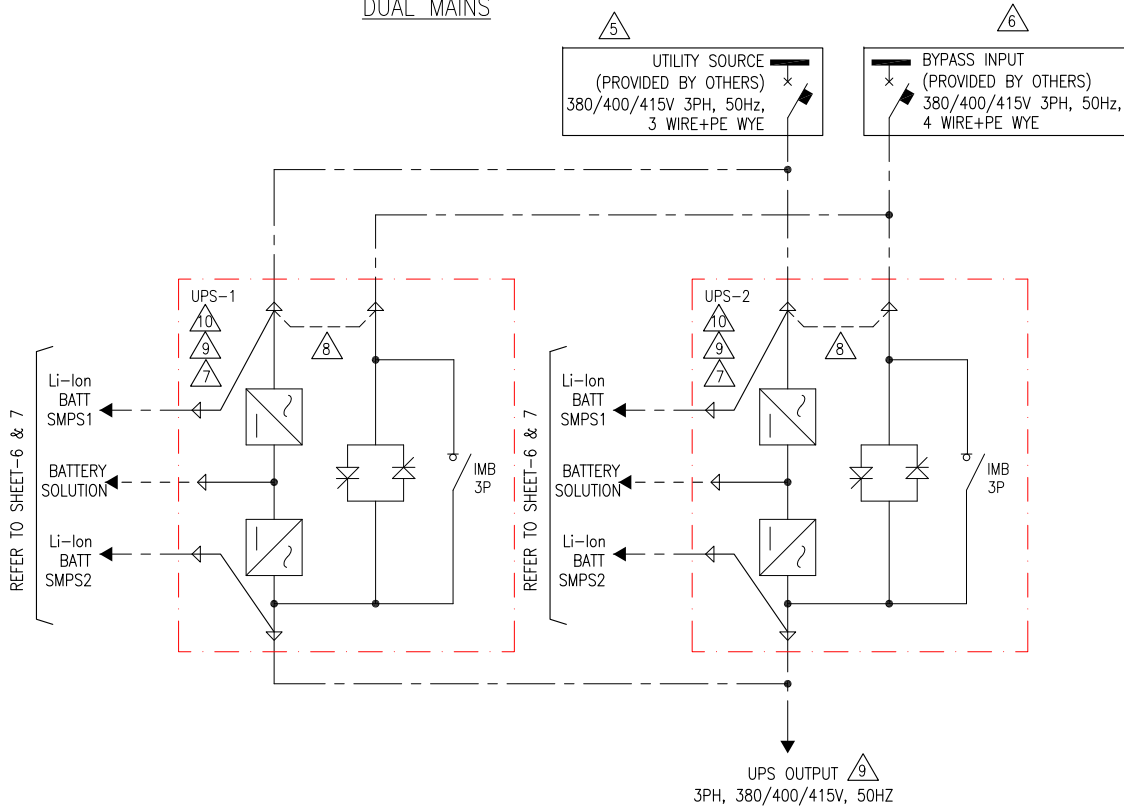
N/A

1+1 SIMPLIFIED PARALLEL UPS WITH BATTERY SOLUTION

SINGLE MAINS



DUAL MAINS



NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.
3. DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT. REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT LAYOUT.
4. FINAL SELECTIONS ARE RESPONSIBILITY OF ENGINEER OF RECORDS BASED ON INSTALLED CONDITIONS AND SCC/SELECTIVE CO-ORDINATION/ARC-FLASH ANALYSIS.
- △5. INPUT AC SOURCE TO BE 3 WIRE+PE. TN, TT AND IT POWER DISTRIBUTION SYSTEMS WITH NO EARTHED LINE CONDUCTORS ARE SUPPORTED. ONLY FOR DUAL MAINS SYSTEM WITH UPSTREAM 4-POLE BREAKERS: INSTALL AN N CONNECTION WITH INPUT CABLES (L1,L2,L3,N,PE) (TN-S).
- △6. INPUT AC SOURCE TO BE 4 WIRE+PE. TN, TT AND IT POWER DISTRIBUTION SYSTEMS WITH NO EARTHED LINE CONDUCTORS ARE SUPPORTED.
- △7. FOR EARTHING INSTALLATION OF TN-C, HIGH IMPEDANCE SYSTEM & IT REFER TO INSTALLATION MANUAL.
- △8. BUS LINK APPLICABLE FOR SINGLE MAINS ONLY, TO BE REMOVED FOR DUAL MAINS APPLICATION.
- △9. FOR TECHNICAL SPECIFICATIONS, RECOMMENDATIONS AND SKU NUMBERS REFER TO SHEET-8.
- △10. MAXIMUM INPUT SHORT-CIRCUIT WITHSTAND: Icw=65kA RMS SYMMETRICAL.

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF SCHNEIDER ELECTRIC AND SHALL NOT BE COPIED, REPRODUCED OR USED IN WHOLE OR IN PART, AS THE BASIS FOR THE MANUFACTURE 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.

**Schneider Electric**

TITLE: GALAXY VS  
Input: 380/400/415V AC 40-70HZ 3PH SINGLE/DUAL MAINS  
Output: 380/400/415V AC 50/60HZ 3PH 20-150kW  
20-150kW 1+1 SIMPLIFIED PARALLEL WITHOUT MBP  
SYSTEM ONE LINE DIAGRAM

PROJECT: DRAWINGS SHEET 2 OF 8

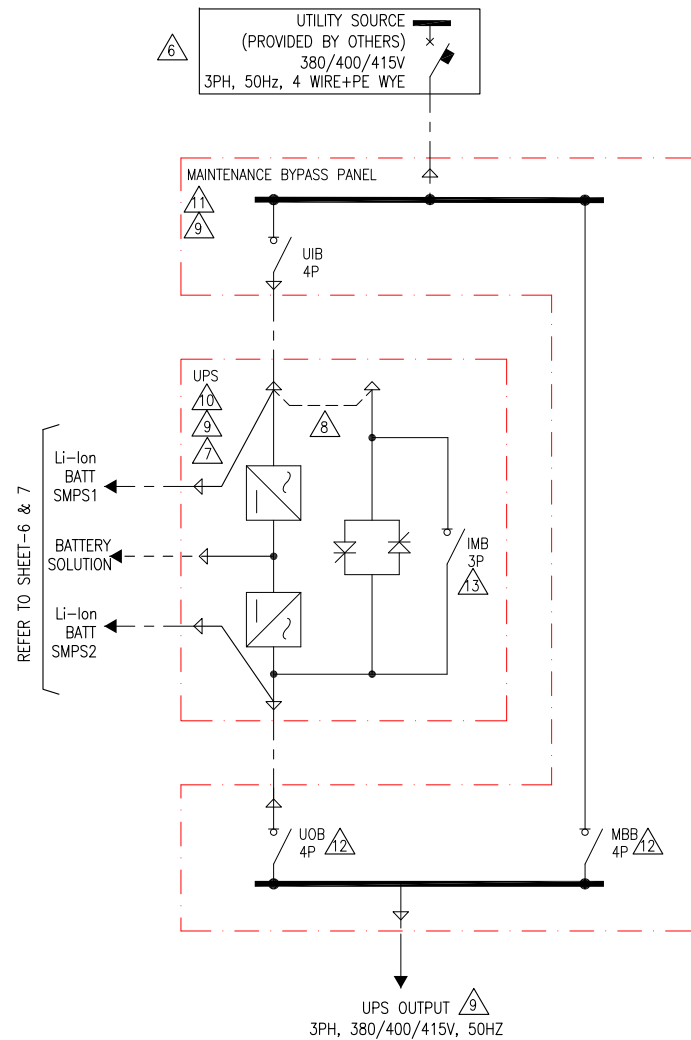
DWG NO: GVSUPS20K150KHS-SD  
DRAWN: BALA  
ENGINEER: H N / R I  
APPROVED: C B

REV. 2  
01-SEP-20  
09-SEP-20  
09-SEP-20  
ANGLE PROJECTION  
N/A

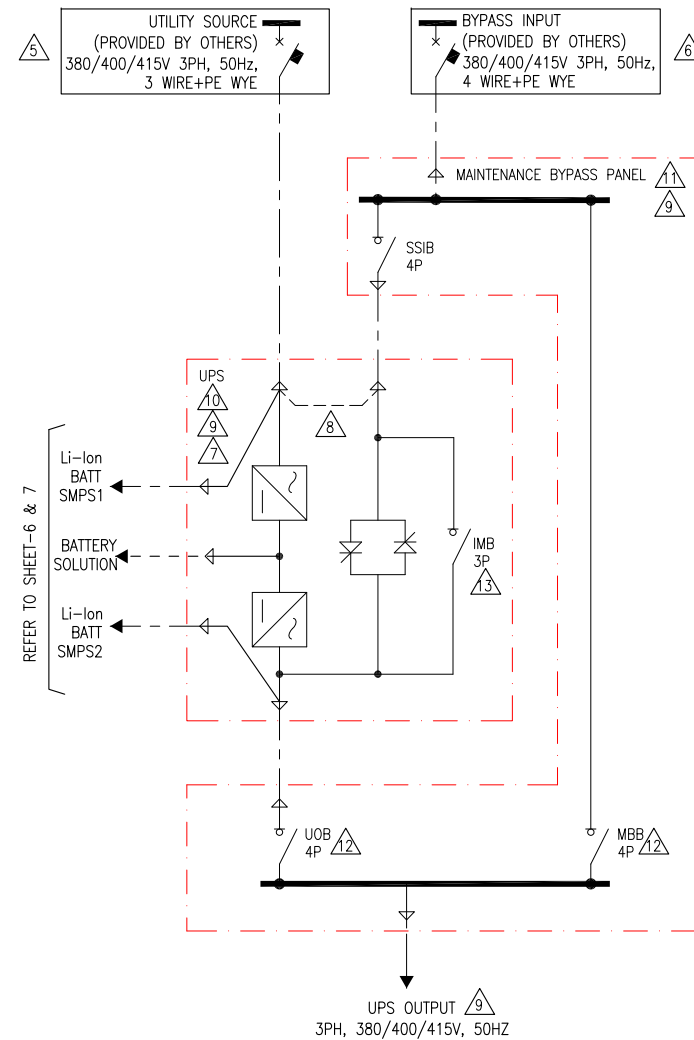
LEGEND:  
- - - AC CABLE (PROVIDED BY OTHERS)  
- - - 500VDC CABLE (PROVIDED BY OTHERS)

# 1 MOD UPS WITH MBP AND BATT SOLUTION

## SINGLE MAINS



## DUAL MAINS



### NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.
3. DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT. REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT LAYOUT.
4. FINAL SELECTIONS ARE RESPONSIBILITY OF ENGINEER OF RECORDS BASED ON INSTALLED CONDITIONS AND SCC/SELECTIVE CO-ORDINATION/ARC-FLASH ANALYSIS.
- △5. INPUT AC SOURCE TO BE 3 WIRE+PE. TN, TT AND IT POWER DISTRIBUTION SYSTEMS WITH NO EARTHED LINE CONDUCTORS ARE SUPPORTED. ONLY FOR DUAL MAINS SYSTEM WITH UPSTREAM 4-POLE BREAKERS: INSTALL AN N CONNECTION WITH INPUT CABLES (L1,L2,L3,N,PE) (TN-S).
- △6. INPUT AC SOURCE TO BE 4 WIRE+PE. TN, TT AND IT POWER DISTRIBUTION SYSTEMS WITH NO EARTHED LINE CONDUCTORS ARE SUPPORTED.
- △7. FOR EARTHING INSTALLATION OF TN-C, HIGH IMPEDANCE SYSTEM & IT REFER TO INSTALLATION MANUAL.
- △8. BUS LINK APPLICABLE FOR SINGLE MAINS ONLY, TO BE REMOVED FOR DUAL MAINS APPLICATION.
- △9. FOR TECHNICAL SPECIFICATIONS, RECOMMENDATIONS AND SKU NUMBERS REFER TO SHEET-8.
- △10. MAXIMUM INPUT SHORT-CIRCUIT WITHSTAND:  $I_{cw}=65\text{ka}$  RMS SYMMETRICAL.
- △11. MAXIMUM INPUT SHORT-CIRCUIT WITHSTAND:  $I_{cw}=10\text{ka}$  RMS SYMMETRICAL.
- △12. BOTH MBB AND UOB NEUTRAL ARE CONNECTED WITH PRE-INSTALLED JUMPERS.
- △13. IMB MUST BE PADLOCKED IN OPEN POSITION.

### LEGEND:

- AC CABLE (PROVIDED BY OTHERS)
- - - 500VDC CABLE (PROVIDED BY OTHERS)

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**Schneider Electric**

TITLE: GALAXY VS  
Input: 380/400/415V AC 40-70Hz 3PH SINGLE/DUAL MAINS  
Output: 380/400/415V AC 50/60Hz 3PH 20-150kW  
20-150kW 1 MOD UPS WITH MBP  
SYSTEM ONE LINE DIAGRAM

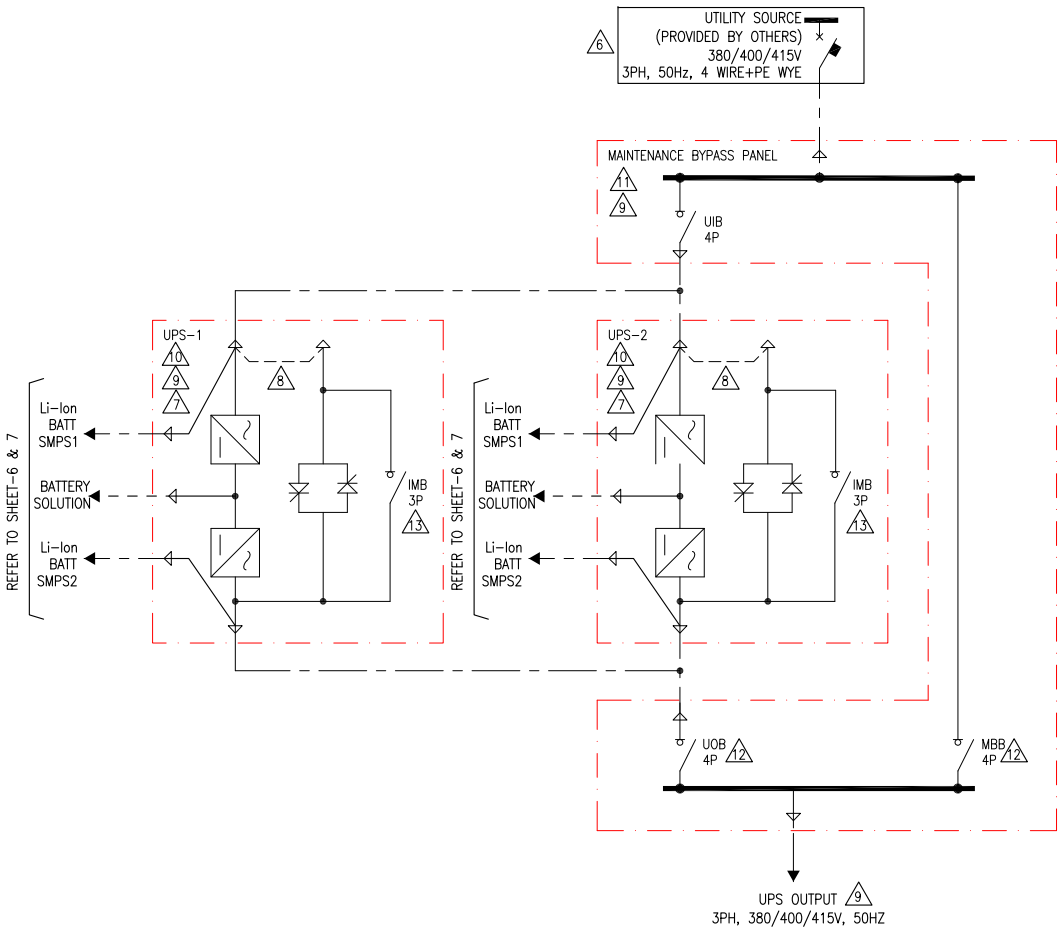
PROJECT: DRAWINGS SHEET 3 OF 8

DWG NO: GVSUPS20K150KHS-SD  
DRAWN: BALA  
ENGINEER: H N / R I  
APPROVED: C B

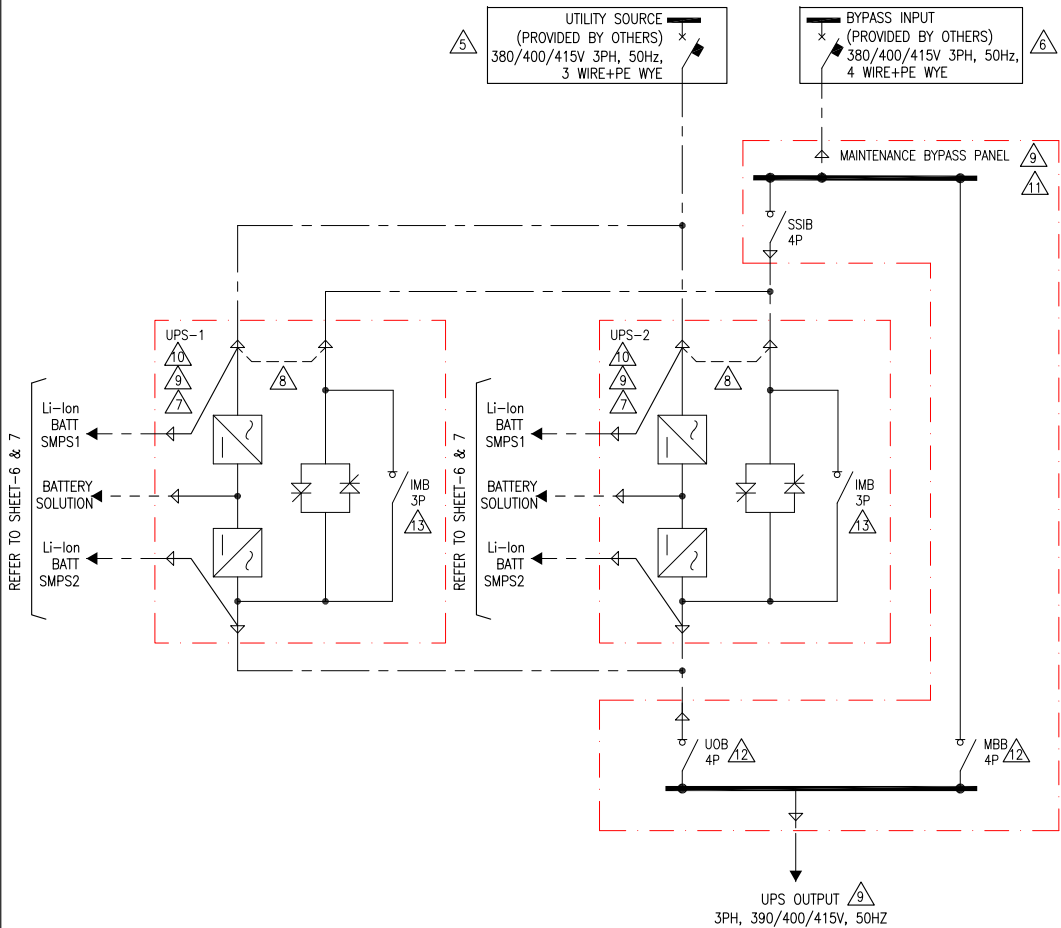
REV. 3  
01-SEP-20  
09-SEP-20  
09-SEP-20  
ANGLE PROJECTION  
N/A

2 MOD (N+1) UPS WITH MBP AND BATT SOLUTION

SINGLE MAINS



DUAL MAINS



NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.
3. DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT. REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT LAYOUT.
4. FINAL SELECTIONS ARE RESPONSIBILITY OF ENGINEER OF RECORDS BASED ON INSTALLED CONDITIONS AND SCC/SELECTIVE CO-ORDINATION/ARC-FLASH ANALYSIS.
- △5. INPUT AC SOURCE TO BE 3 WIRE+PE. TN, TT AND IT POWER DISTRIBUTION SYSTEMS WITH NO EARTHED LINE CONDUCTORS ARE SUPPORTED. ONLY FOR DUAL MAINS SYSTEM WITH UPSTREAM 4-POLE BREAKERS: INSTALL AN 'N' CONNECTION WITH INPUT CABLES (L1,L2,L3,N,PE) (TN-S).
- △6. INPUT AC SOURCE TO BE 4 WIRE+PE. TN, TT AND IT POWER DISTRIBUTION SYSTEMS WITH NO EARTHED LINE CONDUCTORS ARE SUPPORTED.
- △7. FOR EARTHING INSTALLATION OF TN-C, HIGH IMPEDANCE SYSTEM & IT REFER TO INSTALLATION MANUAL.
- △8. BUS LINK APPLICABLE FOR SINGLE MAINS ONLY, TO BE REMOVED FOR DUAL MAINS APPLICATION.
- △9. FOR TECHNICAL SPECIFICATIONS, RECOMMENDATIONS AND SKU NUMBERS REFER TO SHEET-8.
- △10. MAXIMUM INPUT SHORT-CIRCUIT WITHSTAND:  $I_{cw}=65\text{ka}$  RMS SYMMETRICAL.
- △11. MAXIMUM INPUT SHORT-CIRCUIT WITHSTAND:  $I_{cw}=10\text{ka}$  RMS SYMMETRICAL.
- △12. BOTH MBB AND UOB NEUTRAL ARE CONNECTED WITH PRE-INSTALLAED JUMPERS.
- △13. IMB MUST BE PADLOCKED IN OPEN POSITION.

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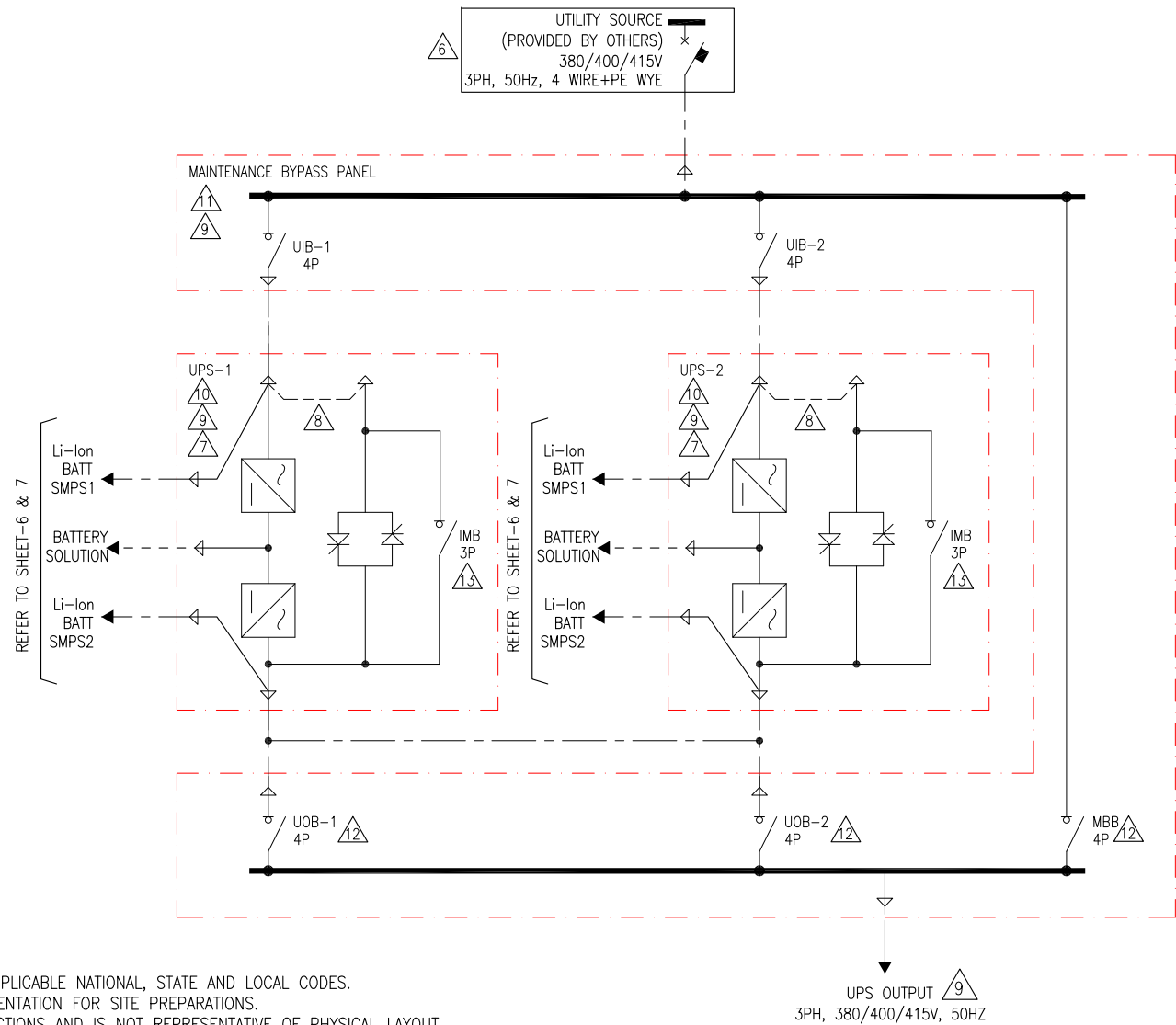
**Schneider Electric**

TITLE: GALAXY VS  
Input: 380/400/415V AC 40-70HZ 3PH SINGLE/DUAL MAINS  
Output: 380/400/415V AC 50/60HZ 3PH 20-150kW  
20-150kW 2 MOD UPS N+1 WITH MBP  
SYSTEM ONE LINE DIAGRAM  
PROJECT: DRAWINGS SHEET 4 OF 8

DWG NO: GVSUPS20K150KHS-SD  
DRAWN: BALA  
ENGINEER: H N / R I  
APPROVED: C B

REV. 3  
01-SEP-20  
09-SEP-20  
09-SEP-20  
ANGLE PROJECTION  
N/A

2 MOD CAPACITY UPS WITH PARALLEL MBP AND BATT SOLUTION



NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.
3. DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT. REFER TO MECHANICAL DRAWINGS FOR EQUIPMENT LAYOUT.
4. FINAL SELECTIONS ARE RESPONSIBILITY OF ENGINEER OF RECORDS BASED ON INSTALLED CONDITIONS AND SCC/SELECTIVE CO-ORDINATION/ARC-FLASH ANALYSIS.
- △5. INPUT AC SOURCE TO BE 3 WIRE+PE. TN, TT AND IT POWER DISTRIBUTION SYSTEMS WITH NO EARTHED LINE CONDUCTORS ARE SUPPORTED. ONLY FOR DUAL MAINS SYSTEM WITH UPSTREAM 4-POLE BREAKERS: INSTALL AN N CONNECTION WITH INPUT CABLES (L1,L2,L3,N,PE) (TN-S).
- △6. INPUT AC SOURCE TO BE 4 WIRE+PE. TN, TT AND IT POWER DISTRIBUTION SYSTEMS WITH NO EARTHED LINE CONDUCTORS ARE SUPPORTED.
- △7. FOR EARTHING INSTALLATION OF TN-C, HIGH IMPEDANCE SYSTEM & IT REFER TO INSTALLATION MANUAL.
- △8. BUS LINK APPLICABLE FOR SINGLE MAINS ONLY, TO BE REMOVED FOR DUAL MAINS APPLICATION.
- △9. FOR TECHNICAL SPECIFICATIONS, RECOMMENDATIONS AND SKU NUMBERS REFER TO SHEET-8.
- △10. MAXIMUM INPUT SHORT-CIRCUIT WITHSTAND:  $I_{cw}=65\text{ka}$  RMS SYMMETRICAL.
- △11. MAXIMUM INPUT SHORT-CIRCUIT WITHSTAND:  $I_{cw}=10\text{ka}$  RMS SYMMETRICAL.
- △12. BOTH MBB AND UOB NEUTRAL ARE CONNECTED WITH PRE-INSTALLAED JUMPERS.
- △13. IMB MUST BE PADLOCKED IN OPEN POSITION.

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**Schneider Electric**

TITLE: GALAXY VS  
Input: 380/400/415V AC 40-70HZ 3PH SINGLE/DUAL MAINS  
Output: 380/400/415V AC 50/60HZ 3PH 20-150kW  
20-150kW 2 MOD UPS WITH PARALLEL MBP  
SYSTEM ONE LINE DIAGRAM

PROJECT: DRAWINGS SHEET 5 OF 8

DWG NO: GVSUPS20K150KHS-SD  
DRAWN: BALA  
ENGINEER: H N / R I  
APPROVED: C B

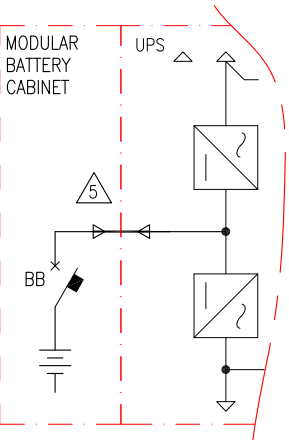
REV. 0  
01-SEP-20  
09-SEP-20  
09-SEP-20  
ANGLE PROJECTION  
N/A

BATTERY SOLUTION – CABLING

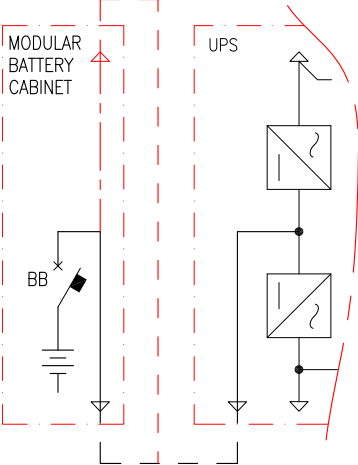
MODULAR BATTERY CABINET–ModBC (GVSMODBC6)

Li-Ion BATTERY CABINET (LIBATTSMGEGVSIEC)

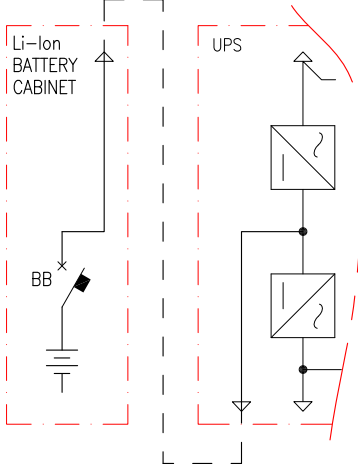
ADJACENT INSTALLATION



REMOTE INSTALLATION  
(TOP/BOTTOM ENTRY OF CONDUIT BOX)



ADJACENT/REMOTE INSTALLATION

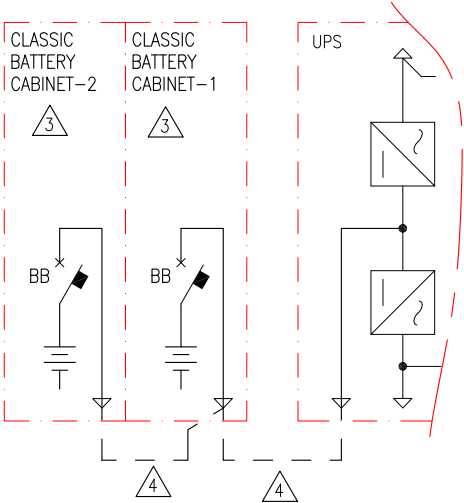


FOR MORE DETAILS ON Li-Ion BATTERY CABINET SKU#LIBATTSMGEGVSIEC  
REFER TO  
DRAWING#LIBATTSMGEGVSIEC–Li-Ion Battery Rack Type E–GVSIEC

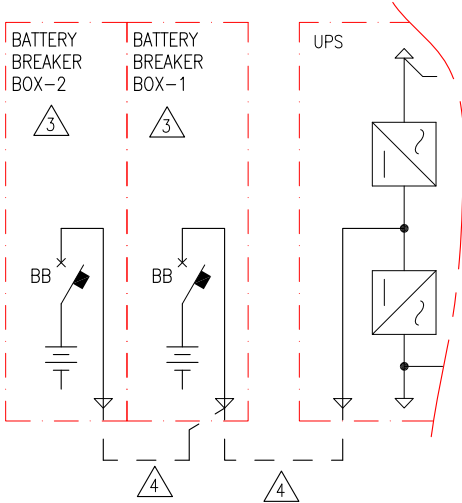
CLASSIC BATTERY CABINET–CBC (GVCBC7A/7B/7B/10A2/10B2)

BATTERY BREAKER BOX– BBB (GVSBB20K80H/ GVSBB100K200H)

ADJACENT/REMOTE INSTALLATION



REMOTE INSTALLATION



LEGEND:  
— — — DC CABLE (PROVIDED BY OTHERS)

- NOTES:
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
  2. REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.
  - △3. MAXIMUM 2 NOS OF BATTERY CABINETS (BOTH CBCs MUST BE OF THE SAME SKU#)/  
BATTERY BREAKER BOXES (BOTH BBBs MUST BE OF THE SAME SKU# ARE SUPPORTED BY A GALAXY VS UPS.
  - △4. MAXIMUM ALLOWABLE DISTANCE BETWEEN UPS AND BATTERIES ARE 200 METERS (656 FEET).
  - △5. FOR ADJACENT INSTALLATION CABLING BETWEEN UPS AND MODULAR BATTERY CABINET IS PART OF SKU#GVSMODBC6.

THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF SCHNEIDER ELECTRIC AND SHALL NOT BE COPIED, REPRODUCED OR USED IN WHOLE OR IN PART, AS THE BASIS FOR THE MANUFACTURE 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.

**Schneider Electric**

TITLE: GALAXY VS  
Input: 380/400/415V AC 40–70HZ 3PH SINGLE/DUAL MAINS  
Output: 380/400/415V AC 50/60HZ 3PH 20–150kW  
BATTERY SOLUTION – CABLING  
SYSTEM ONE LINE DIAGRAM  
PROJECT: DRAWINGS SHEET 6 OF 8

DWG NO: GVSUPS20K150KHS–SD  
DRAWN: BALA  
ENGINEER: H N / R I  
APPROVED: C B  
REV. 1  
9–OCT–20  
9–OCT–20  
9–OCT–20  
ANGLE PROJECTION  
N/A

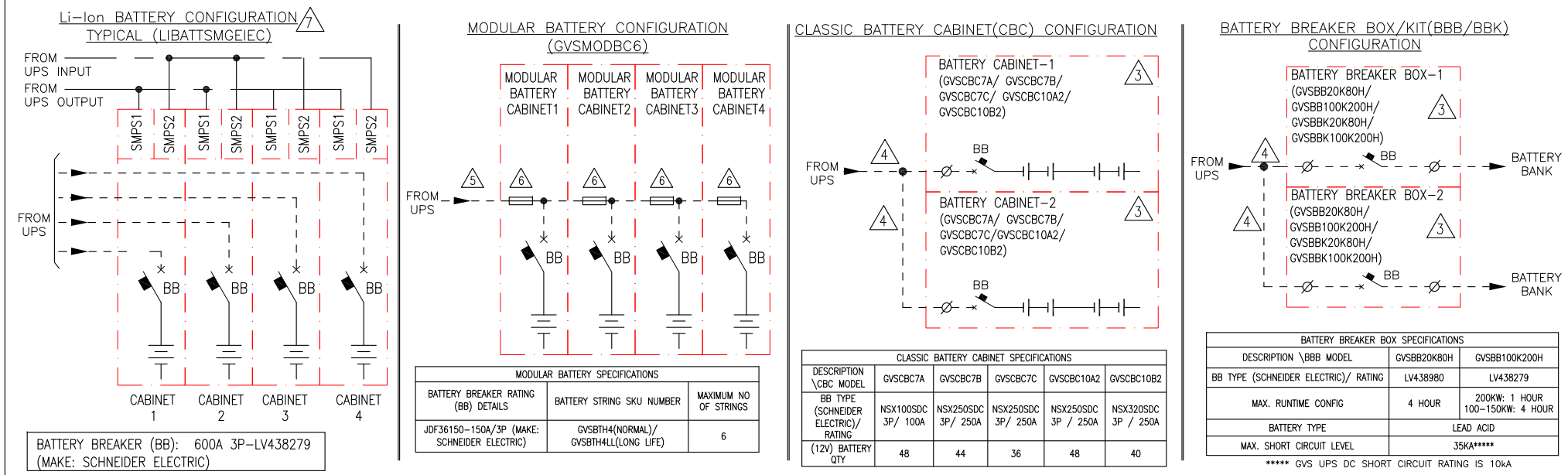
# GALAXY VS 20-150KW UPS SKUs WITH APPLICABLE BATTERY SOLUTION

UPS RATING (kW)	UPS SKU NUMBER	APPLICABLE BATTERY SKUs (MINIMUM–MAXIMUM)			APPLICABLE BATTERY BREAKER BOX/ BATTERY BREAKER KIT SKU NUMBERS	
		Li-Ion BATTERY CABINET (MINIMUM–MAXIMUM) (LIBATTSMGEIEC)***	MODULAR BATTERY CABINET (MINIMUM–MAXIMUM) (GVSMODBC6)****	CLASSIC BATTERY CABINET @		
20	GVSUPS20KHS /GVSUPS20KHINS	1 – 4	1–4	GVSCBC7A/GVSCBC7B/ GVSCBC7C/GVSCBC10A2/ GVSCBC10B2/ 2XGVSCBC7A/ 2XGVSCBC7B/2XGVSCBC7C/ 2XGVSCBC10A2/ 2XGVSCBC10B2	GVSBBB20K80H / GVSBBK20K80H	
30	GVSUPS30KHS / GVSUPS30KHINS			GVSCBC7A/GVSCBC7B/ GVSCBC10A2/GVSCBC10B2/ 2XGVSCBC7A/2XGVSCBC7B/2XGVSCBC10A2/ 2XGVSCBC10B2		
40	GVSUPS40KHS / GVSUPS40KHINS		2–4	GVSCBC7A*/ GVSCBC7B/ GVSCBC7C/GVSCBC10A2/GVSCBC10B2/ 2XGVSCBC7A/2XGVSCBC7B/ 2XGVSCBC7C/2XGVSCBC10A2/2XGVSCBC10B2		GVSBBB100K200H/ GVSBBK100K200H
50	GVSUPS50KHS / GVSUPS50KHINS			GVSCBC7B**/GVSCBC7C/ GVSCBC10A2/GVSCBC10B2/ 2XGVSCBC7A/2XGVSCBC7B/2XGVSCBC7C/ 2XGVSCBC10A2/2XGVSCBC10B2		
60	GVSUPS60KHS / GVSUPS60KHINS			GVSCBC10A2/GVSCBC10B2/ 2XGVSCBC7A/2XGVSCBC7B/ 2XGVSCBC10A2/ 2XGVSCBC10B2		
80	GVSUPS80KHS / GVSUPS80KHINS		3–4	2XGVSCBC7A**/ GVSCBC10A2/ GVSCBC10B2/ 2XGVSCBC10A2/2XGVSCBC10B2		
100	GVSUPS100KHS / GVSUPS100KHINS			GVSCBC10A2*/GVSCBC10B2/2XGVSCBC7B**/ 2XGVSCBC10A2/2XGVSCBC10B2		
120	GVSUPS120KHS / GVSUPS120KHINS					
150	GVSUPS150KHS / GVSUPS150KHINS					
50 TO 150	GVSUPS50K150HS	THIS UPS CAN BE EXPANDED FROM 50KW TO 60/80/100/120/150KW, REFER TO THE RESPECTIVE ABOVE ROWS BASED ON THE EXPANDED UPS RATING				

@ APPLICABLE FOR POWER FACTOR 0.8, 0.9 & 1 UNLESS OTHERWISE MENTIONED.  
 \* APPLICABLE FOR POWER FACTOR 0.8 ONLY.  
 \*\* APPLICABLE FOR POWER FACTOR 0.8 AND 0.9 ONLY.

\*\*\* NO LINE-UP WITH UPS. CHECK WITH SCHNEIDER ELECTRIC IF BATTERY BREAKER BOX IS NEED TO BE ADDED.  
 \*\*\*\* COMPATIBLE WITH STANDARD MODULAR OR LONG-LIFE MODULAR BATTERIES (GVSBT4 or GVSBT4LL). EACH BATTERY CABINET HAS ONLY 50kW DC BREAKER. ADD GVSOPT030 FOR INTERCONNECTION (1 FOR FULL SYSTEM ONLY) FOR ADJACENT INSTALLATION.

## BATTERY SOLUTION DETAILS



#### NOTES:

- INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
- REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.
- MAXIMUM 2 NOS OF BATTERY CABINETS (BOTH CBCs MUST BE OF THE SAME SKU#)/ BATTERY BREAKER BOXES (BOTH BBBs MUST BE OF THE SAME SKU#) ARE SUPPORTED BY A GALAXY VS UPS.
- MAXIMUM ALLOWABLE DISTANCE BETWEEN UPS AND BATTERIES ARE 200 METERS [656 FEET].
- FOR ADJACENT INSTALLATION CABLING OF ModBC (SKU#GVSMDBC6) PROVIDED BY SCHNEIDER ELECTRIC. FOR REMOTE INSTALLATION CABLING PROVIDED BY OTHERS CONTACT SCHNEIDER ELECTRIC
- REFER TO GVSMDBC6 DRAWING FOR ADDITIONAL DETAILS.
- FOR MORE DETAILS ON LI-Ion BATTERY CABINET SKU#LIBATSMGEIEC REFER TO DRAWING#LIBATSMGEIEC-Li-Ion Battery Rack Type E-GVSIEC

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**Schneider Electric**

TITLE: GALAXY VS  
 Input: 380/400/415V AC 40-70HZ 3PH SINGLE/DUAL MAINS  
 Output: 380/400/415V AC 50/60HZ 3PH 20-150KW  
 BATTERY SOLUTION WITH APPLICABLE UPS SKUs  
 SYSTEM ONE LINE DIAGRAM  
 PROJECT: DRAWINGS SHEET 7 OF 8

DWG NO: GVSUPS20K150KHS-SD  
 DRAWN: BALA  
 ENGINEER: H N / R I  
 APPROVED: C B

REV. 1  
 9-OCT-20  
 9-OCT-20  
 9-OCT-20  
 ANGLE PROJECTION  
 N/A



GALAXY VS 20–150KW UPS SITE PLANNING DATA											
MAINS INPUT (SINGLE MAINS): 380/400/415V, 50HZ 3PH 4 WIRE+PE WYE    BYPASS INPUT: 380/400/415V, 50HZ, 3PH, 4WIRE+PE WYE    OUTPUT: 380/400/415V, 50HZ, 3PH 4 WIRE+PE											
MAINS INPUT (DUAL MAINS): 380/400/415V, 50HZ, 3PH 3WIRE +PE WYE    NOMINAL DC VOLTAGE (12V/BLOCK): FOR 20/30/40&80KW: 32–48 BLOCKS: 384–576V, FOR 50/100/120/150KW :40–48 BLOCKS: 480–576V, FOR 60KW: 35–48 BLOCKS: 40–576V											
UPS RATING (kW)	UPS SKU NUMBER	APPLICABLE SINGLE UNIT MBP SKU NUMBER	NOMINAL MAINS INPUT CURRENT (NO CHARGING) (A) @380/400/415V	NOMINAL MAINS INPUT CURRENT (FULL CHARGING) (A) @380/400/415V	NOMINAL BYPASS INPUT CURRENT		UPS/ SYSTEM OUTPUT CURRENT	BATTERY CURRENT (A) @ FULL LOAD AND NOMINAL Vbat (V)	BATTERY CURRENT (A) @ FULL LOAD AND MINIMUM Vbat (V)	RECOMMENDED OVER CURRENT PROTECTION DEVICE MODEL (MAKE:–SCHNEIDER ELECTRIC) / Ir / Im SETTING	
					PHASE CURRENT @380/400/415V	NEUTRAL CURRENT @380/400/415V				MAINS INPUT	BYPASS INPUT
20	GVSUPS20KHS /GVSUPS20KHINS	GVSBPSU20K60H	32/30/29	38/36/35	31/29/28	53/50/48	30/29/28	54	68	NSX100H TM40D (LV429674)/ 40 / 500 (FIXED)	NSX100H TM32D (LV429675)/ 32 / 500 (FIXED)
30	GVSUPS30KHS / GVSUPS30KHINS		47/45/43	57/54/52	46/44/42	79/75/72	46/43/42	81	102	NSX100H TM63D (LV429672)/ 63 / 500 (FIXED)	NSX100H TM50D (LV429673)/ 50 / 500 (FIXED)
40	GVSUPS40KHS / GVSUPS40KHINS		63/60/58	76/72/69	61/58/56	105/100/96	61/58/56	109	136	NSX100H TM80D (LV429671)/ 80 / 640 (FIXED)	NSX100H TM63D (LV429672)/ 63 / 500 (FIXED)
50	GVSUPS50KHS / GVSUPS40KHINS		79/75/72	91/90/87	77/73/70	131/125/120	76/72/70	109	136	NSX100H TM100D (LV429670)/ 100 / 800 (FIXED)	NSX100H TM80D (LV429671)/ 80 / 640 (FIXED)
60	GVSUPS60KHS / GVSUPS60KHINS		95/90/87	114/108/104	92/87/84	158/150/144	91/87/83	130	163	NSX160H TM125D (LV430671)/ 125 / 1250 (FIXED)	NSX100H TM100D (LV429670)/ 100 / 800 (FIXED)
80	GVSUPS80KHS / GVSUPS80KHINS	GVSBPSU80K120H	126/120/116	151/144/139	123/117/112	210/200/193	122/115/111	174	217	NSX160H TM160D (LV430670)/ 160 / 1250 (FIXED)	NSX160H TM125D (LV430671)/ 125 / 1250 (FIXED)
100	GVSUPS100KHS / GVSUPS100KHINS		158/150/144	182/180/173	153/146/141	263/250/241	152/144/139	217	271	NSX250H TM200D (LV431671)/ 200 / 5–10 x In	NSX160H TM160D (LV430670)/ 160 / 1250 (FIXED)
120	GVSUPS120KHS / GVSUPS120KHINS		189/180/173	227/216/208	184/175/169	263/250/241	182/173/167	260	326	NSX250H TM250D (LV431670)/ 250 / 5–10 x In	NSX250H TM200D (LV431671)/ 200 / 5–10 x In
150	GVSUPS150KHS / GVSUPS150KHINS	GVSBPSU150KH	237/225/217	273/270/260	230/219/211	263/250/241	228/217/209	326	407	NSX400H MIC.L2 (LV432695)/ 1 / 10	NSX250H TM250D (LV431670)/ 250 / 5–10 x In
50 EXP. TO 150	GVSUPS50K150KHS		UPS EXPANDABLE FROM 50KW TO 60/80/100/120/150KW REFER TO THE ABOVE RESPECTIVE ROW BASED ON THE EXPANSION								

MAINTENANCE BYPASS PANEL (MBP) SWITCHGEAR DETAILS (MAKE: SCHNEIDER ELECTRIC)			
DEVICE ID/ MBP SKU	GVSBPSU20K60H	GVSBPSU80K120H	GVSBPSU150KH
UIB / SSIB	160A, 4P LOAD SWITCH (INS160 MG)	250A, 4P LOAD SWITCH (INS250 MG)	630A 4P LOAD SWITCH (INS 630 TETRA)
MBB/UOB			250A 4 POLE LOAD SWITCH (INS 250 MG)

GALAXY VS 20–120KW 2 MODULE CAPACITY UPS SITE PLANNING DATA												
MAINS INPUT (SINGLE MAINS): 380/400/415V, 50HZ 3PH 4 WIRE+PE WYE    BYPASS INPUT: 380/400/415V, 50HZ, 3PH, 4WIRE+PE WYE    OUTPUT: 380/400/415V, 50HZ, 3PH 4 WIRE+PE												
MAINS INPUT (DUAL MAINS): 380/400/415V, 50HZ, 3PH 3WIRE +PE WYE    NOMINAL DC VOLTAGE (12V/BLOCK): FOR 20/30/40&80KW: 32–48 BLOCKS: 384–576V, FOR 50/100/120/150KW :40–48 BLOCKS: 480–576V, FOR 60KW: 35–48 BLOCKS: 40–576V												
INDIVIDUAL UPS RATING (kW)	SYSTEM OUTPUT RATING	UPS SKU NUMBER	APPLICABLE PARALLEL UNIT MBP SKU NUMBER	NOMINAL SYSTEM INPUT CURRENT	NOMINAL INDIVIDUAL UPS MAINS INPUT CURRENT (NO CHARGING) (A) Ⓣ380/400/415V	NOMINAL INDIVIDUAL UPS INPUT CURRENT (FULL CHARGING) (A) Ⓣ380/400/415V	NOMINAL SYSTEM BYPASS INPUT PHASE CURRENT Ⓣ380/400/415V	INDIVIDUAL UPS OUTPUT CURRENT	SYSTEM OUTPUT CURRENT	BATTERY CURRENT (A) Ⓣ FULL LOAD AND NOMINAL Vbat (V) PER UPS	BATTERY CURRENT (A) Ⓣ FULL LOAD AND MINIMUM Vbat (V) PER UPS	RECOMMENDED OVER CURRENT PROTECTION DEVICE MODEL/ Ir / Im (A)SEETING (MAKE:–SCHNEIDER ELECTRIC)
20	40	GVSUPS20KHS /GVSUPS20KHINS	GVSBPAR10K30H	64/60/58	32/30/29	38/36/35	62/58/56	30/29/28	60/58/56	54	68	LV429671 / 80 / 640(FIXED)
30	60	GVSUPS30KHS / GVSUPS30KHINS		94/90/86	47/45/43	57/54/52	92/88/84	46/43/42	92/86/84	81	102	LV430671 / 125 / 1250(FIXED)
40	80	GVSUPS40KHS / GVSUPS40KHINS	GVSBPAR40K50H	126/120/116	63/60/58	76/72/69	122/116/112	61/58/56	122/116/112	109	136	LV30670 / 160 / 1250(FIXED)
50	100	GVSUPS50KHS / GVSUPS40KHINS		158/150/144	79/75/72	91/90/87	154/146/140	76/72/70	152/144/140	109	136	LV431671 / 200 / 5–10 x In
60	120	GVSUPS60KHS / GVSUPS60KHINS	GVSBPAR60K120H	190/180/174	95/90/87	114/108/104	184/174/168	91/87/83	182/174/166	130	163	LV431670 / 250 / 5–10 x In
80	160	GVSUPS80KHS / GVSUPS80KHINS		252/240/232	126/120/116	151/144/139	246/234/224	122/115/111	244/230/222	174	217	LV32695 / 1 / 1.5–10
100	200	GVSUPS100KHS / GVSUPS100KHINS		316/300/288	158/150/144	182/180/173	306/292/282	152/144/139	304/288/278	217	271	LV32695 / 0.94 / 1.5–10
120	240	GVSUPS120KHS / GVSUPS120KHINS		378/360/346	189/180/173	227/216/208	368/350/338	182/173/167	364/346/334	260	326	LV32895 / 0.94 / 1.5–10

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT INSTALLATION DOCUMENTATION FOR SITE PREPARATIONS.
- △3. MAXIMUM 2 NOS OF BATTERY CABINETS (BOTH CBCs MUST BE OF THE SAME SKU#)/ BATTERY BREAKER BOXES (BOTH BBBs MUST BE OF THE SAME SKU# ARE SUPPORTED BY A GALAXY VS UPS.
- △4. MAXIMUM ALLOWABLE DISTANCE BETWEEN UPS AND BATTERIES ARE 200 METERS [656 FEET].
5. BATTERY CURRENT FOR 20–40KW BASED ON 32 BLOCKS, FOR 50–100KW BASED ON 40 BLOCKS AND FOR 120–150KW BASED ON 40–48 BLOCKS.

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TITLE: GALAXY VS  
Input: 380/400/415V AC 40–70HZ 3PH SINGLE/DUAL MAINS  
Output: 380/400/415V AC 50/60HZ 3PH 20–150KW  
SITE PLANNING DATA  
SYSTEM ONE LINE DIAGRAM  
PROJECT: DRAWINGS | SHEET 8 OF 8

DWG NO: GVSUPS20K150KHS–SD  
DRAWN: BALA  
ENGINEER: H N / R I  
APPROVED: C B

REV. 4  
ANGLE PROJECTION  
N/A