
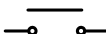


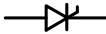







G5000 80kVA UPS 480V SINGLE MAINS AND 3-48" WIDTH ADJACENT BATTERY CABINETS UL924 DRAWING GUIDE

Sheet No.	Component /Detail	Description
1	Drawing Guide	MGE GALAXY 5000 80kVA UPS SINGLE MAINS AND 3-48" BATTERY CABINET WITH UL924 DRAWING GUIDE
2	Solution - General Arrangement	MGE GALAXY 5000 80kVA UPS SINGLE MAINS AND 3-48" BATTERY CABINET WITH UL924 GENERAL ARRANGEMENT
3	Solution - Botttom View	MGE GALAXY 5000 80kVA UPS SINGLE MAINS AND 3-48" BATTERY CABINET WITH UL924 BOTTOM VIEW
4-5	UPS - Internal Details	MGE GALAXY 5000 80kVA UPS WITH UL924
6	Battery - Internal Details	MGE GALAXY 5000 48" WIDTH BATTERY CABINET WITH UL924
7	System One line Diagram	MGE GALAXY 5000 80kVA UPS SINGLE MAINS AND 3-48" BATTERY CABINET WITH UL924 SYSTEM ONE LINE
8	Electrical System Requirement	MGE GALAXY 5000 80kVA UPS SINGLE MAINS AND 3-48" BATTERY CABINET WITH UL924 SYSTEM REQUIREMENT
9	System wiring Diagram	MGE GALAXY 5000 80kVA UPS SINGLE MAINS AND 3-48" BATTERY CABINET WITH UL924 SYSTEM WIRING DIAGRAM

LEGEND					
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CIRCUIT BREAKER		NORMALLY OPEN CONTACT		BATTERY
	SWITCH DISCONNECT		STATIC SWITCH		RECTIFIER
	FUSE		BATTERY CHARGER		INVERTER
	TERMINAL				

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TITLE: MGE GALAXY 5000
 Input: 480 AC 3PH SINGLE MAINS
 Output: 480V AC 3PH 80kVA
 UPS, 3-48" W ADJ BATT CABINETS WITH UL924
 DRAWING GUIDE

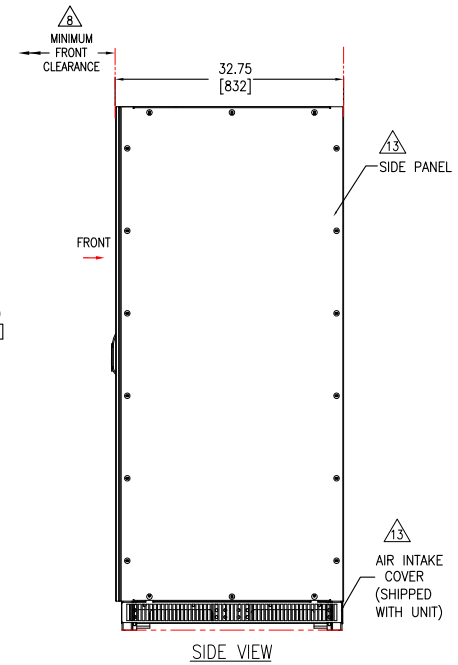
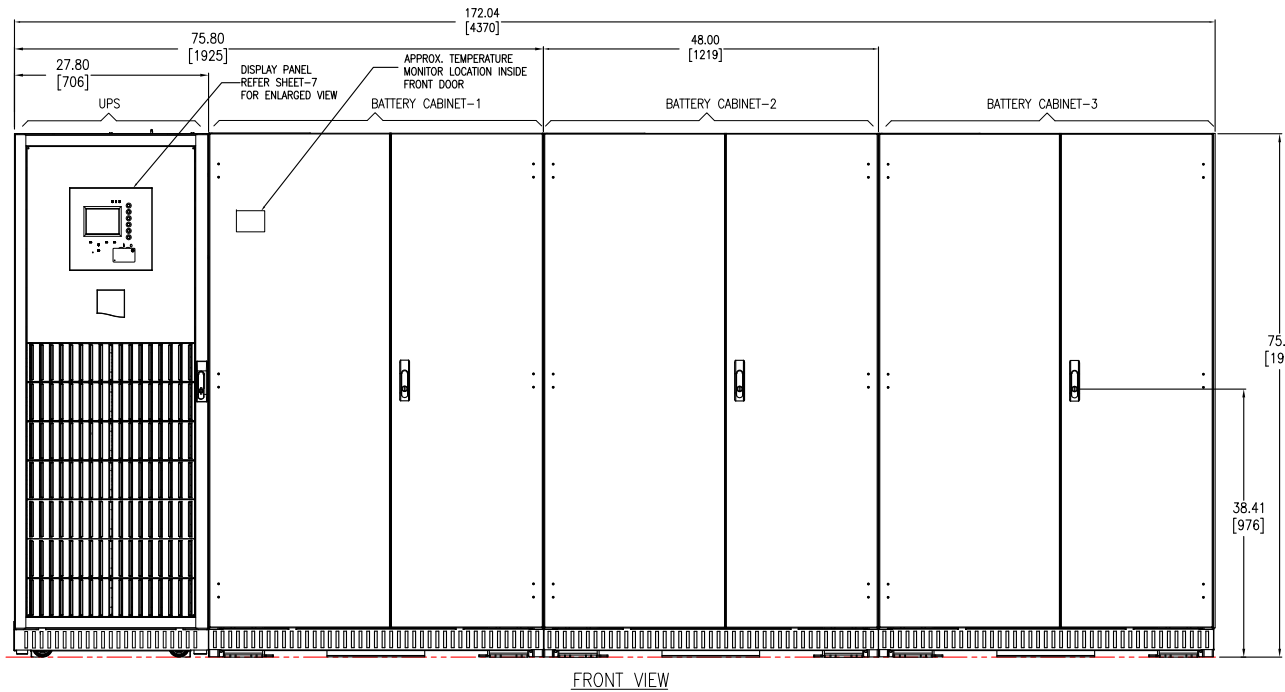
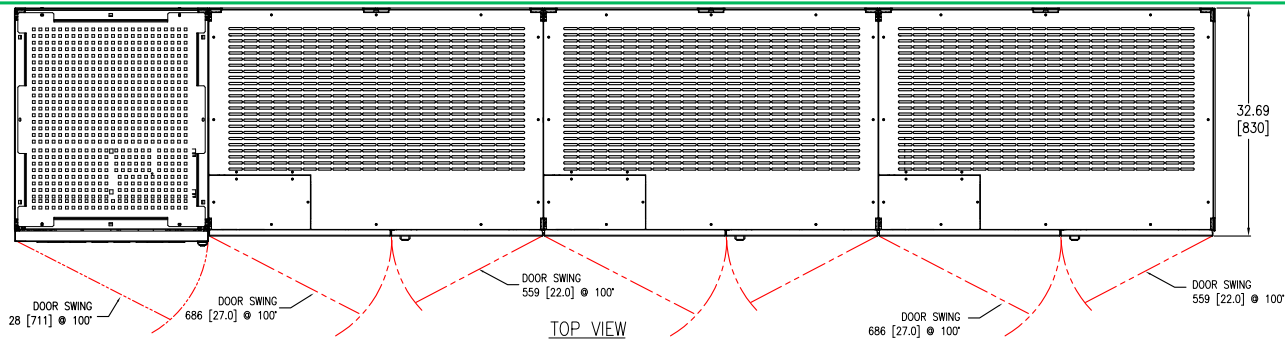
DWG NO: SUG580A90UL REV. 1

DRAWN BY: JAYAPRAKASH/S CUNHA 27-DEC-13 ANGLE

ENGINEER: SIVA K/S DAS 27-DEC-13 PROJECTION

PROJECT: DRAWINGS SHEET 1 OF 9

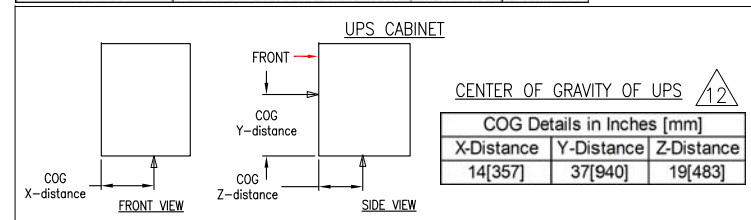
APPROVED BY: A DESHPANDE/J GOOSSSEFF 27-DEC-13 N/A



NOTES:

1. COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT MANUALS AND FSB# FSB-FM-G5K-008 FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
4. ALL DIMENSIONS ARE TO OUTSIDE EDGE OF THE CABINET, EXCLUDING DOOR LOCK AND ALL HARDWARE.
5. COLOR: SILVER METALLIC, DARK GRAY.
6. A TORX (T-30) TYPE SCREWDRIVER IS REQUIRED TO REMOVE PANELS.
7. OPERATING TEMPERATURE: 32°F (0°C) MIN. TO 104°F (40°C) MAX.
RECOMMENDED OPERATING RANGE: 60°F (15°C) TO 77°F (25°C).
8. RECOMMENDED CLEARANCE IS SUBJECT TO NATIONAL AND LOCAL CODES
39.0 [1000] RECOMMENDED FRONT CLEARANCE.
24.0 [610] RECOMMENDED TOP CLEARANCE FOR VENTILATION.
9. CABINETS ARE ATTACHED TOGETHER USING BRACKETS.
10. BATTERY VOLTAGE DROP SHALL BE KEPT TO LESS THAN 1% BASED ON BATTERY DISCONNECT RATING.
11. POWER CABLES SHALL BE IN SEPARATE CONDUITS FROM CONTROL AND COMMUNICATION CABLES.
12. THIS INFORMATION PROVIDED CONSERVATIVE CENTER OF GRAVITY CALCULATION.
13. CABINETS SHIPPED WITHOUT SIDE PANELS AND SIDE INTAKE COVERS, USE SIDE PANEL AND AIR INTAKE COVER FROM UPS WHEN END CABINET IN SYSTEM LINE-UP.
14. CABLE ENTRY IS BOTTOM OF UNITS.
15. RUNTIME IS 90 MINUTES AT RATED LOAD.

Floor Loading Data			
Description	Dimensions H x W x D Inch[mm]	Weight in lb [Kg]	Floor Loading lb / sq. ft [kg / sq. m]
UPS	74.8x28.03x33.4 [1900x712x848]	882 [400]	136 [662]
BATTERY	75x48.24x32.75 [1905x1225x832]	4650 [2109]	424 [2069]



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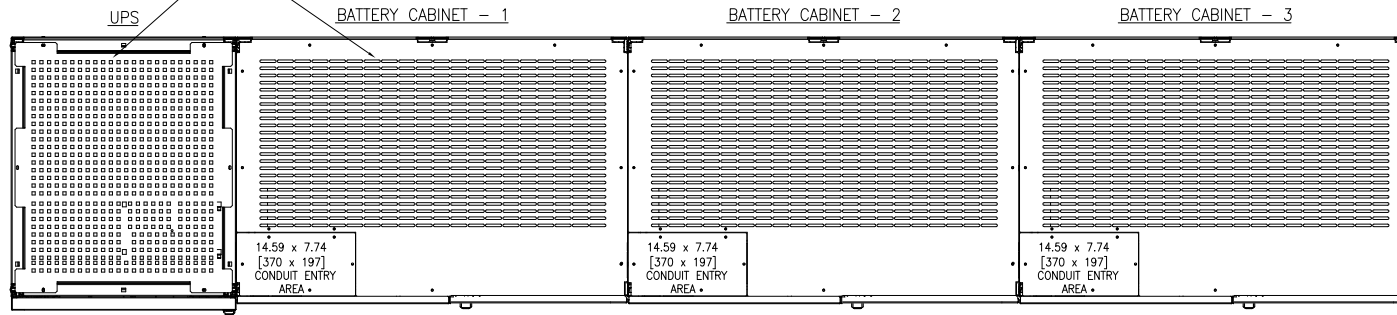


TITLE: MGE GALAXY 5000
Input: 480 AC 3PH SINGLE MAINS
Output: 480V AC 3PH 80kVA
UPS, 3-48" W ADJ BATT CABINETS WITH UL924
GENERAL ARRANGEMENT

DWG NO:	SUG580A90UL	REV:	1
DRAWN BY:	JAYAPRAKASH/S CUNHA	27-DEC-13	THIRD
ENGINEER:	SIVA K/S DAS	27-DEC-13	ANGLE
APPROVED BY:	A DESHPANDE/J GOOSSEFF	27-DEC-13	PROJECTION

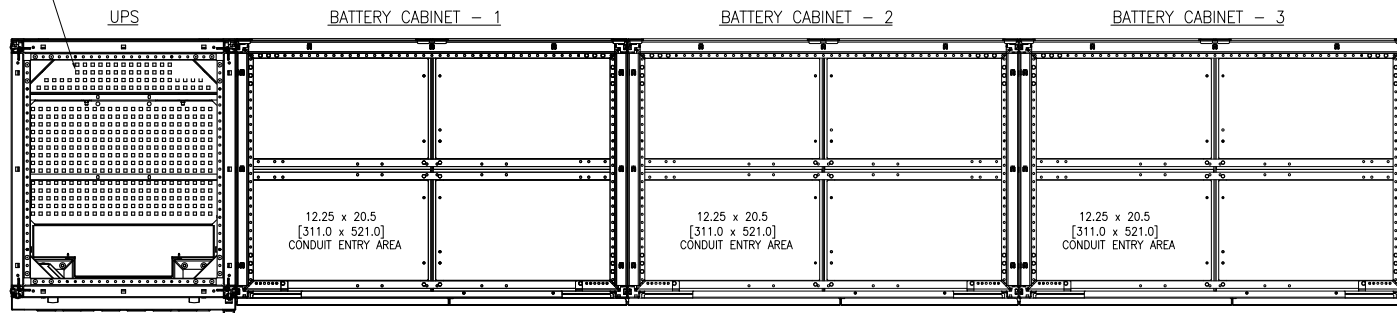
PROJECT: DRAWINGS SHEET 2 OF 9

AIR EXHAUST (DO NOT BLOCK)

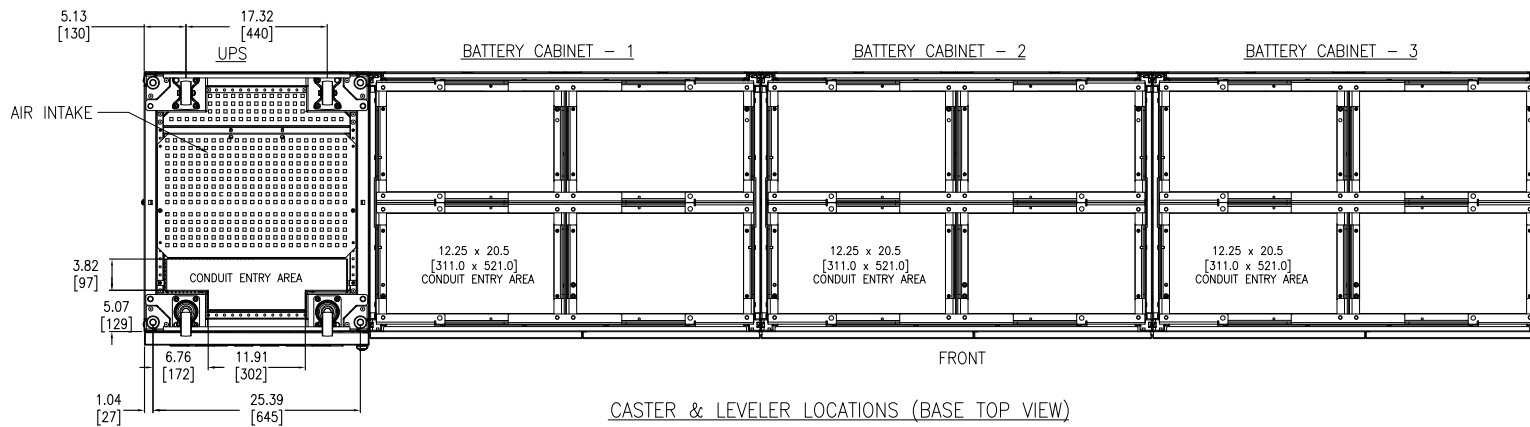


FRONT
TOP VIEW

AIR INTAKE



FRONT
BOTTOM ENTRY CONDUIT LOCATIONS (BASE TOP VIEW)



FRONT
CASTER & LEVELER LOCATIONS (BASE TOP VIEW)

NOTES:

1. COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT MANUALS AND FSB# FSB-FM-G5K-008 FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
4. ALL DIMENSIONS ARE TO THE OUTSIDE EDGE OF CABINET, EXCLUDING DOOR LOCKS AND ALL HARDWARE.

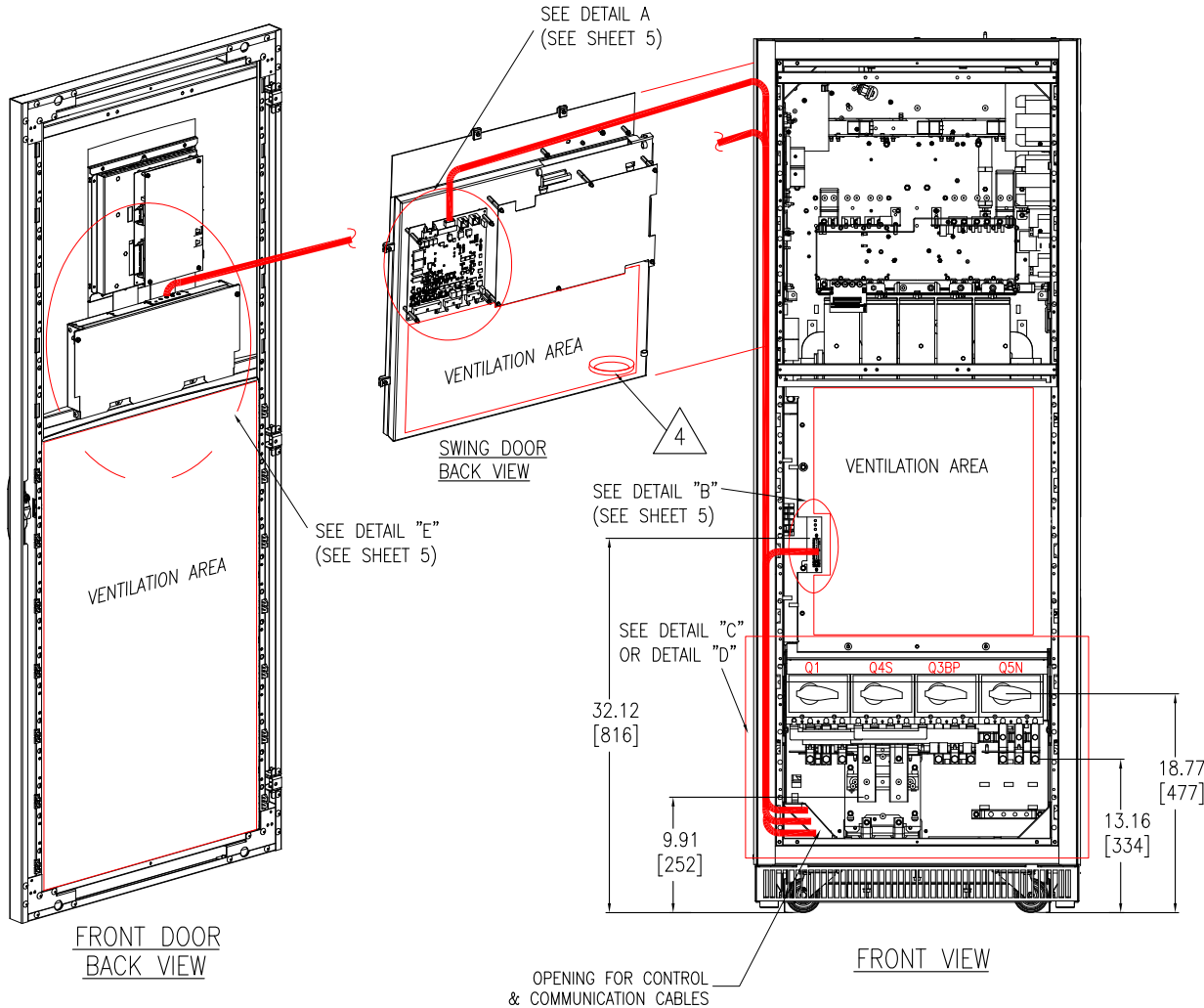
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TITLE: MGE GALAXY 5000
Input: 480 AC 3PH SINGLE MAINS
Output: 480V AC 3PH 80kVA
UPS, 3-48" W ADJ BATT CABINETS WITH UL924
TOP & BOTTOM VIEW

PROJECT: DRAWINGS SHEET 3 OF 9

DWG NO:	SUG580A90UL	REV.	0
DRAWN BY:	JAYAPRAKASH	4-DEC-12	THIRD
ENGINEER:	SIVA K	13-DEC-12	ANGLE
APPROVED BY:	A DESHPANDE	13-DEC-12	PROJECTION



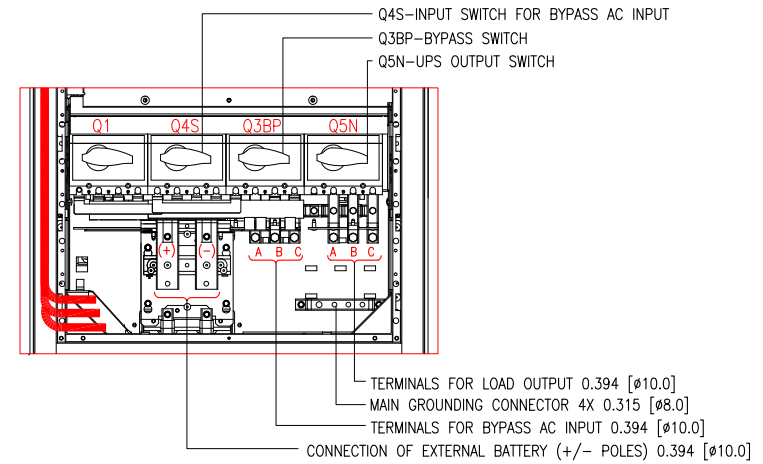
NOTES:

1. COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL CODES.
2. REFER TO PRODUCT MANUALS AND FSB# FSB-FM-G5K-008 FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK
3. ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS OTHERWISE SPECIFIED.
- △ 4. RUN THE ATIZ CABLE FOUR TIMES THROUGH THE EMI CORE.
5. FOLLOW CONTROL AND COMMUNICATION CABLES ROUTING PATH SHOWN.
6. SOME STRUCTURAL DETAILS HAVE BEEN OMITTED FOR THE PURPOSE OF CLARITY.

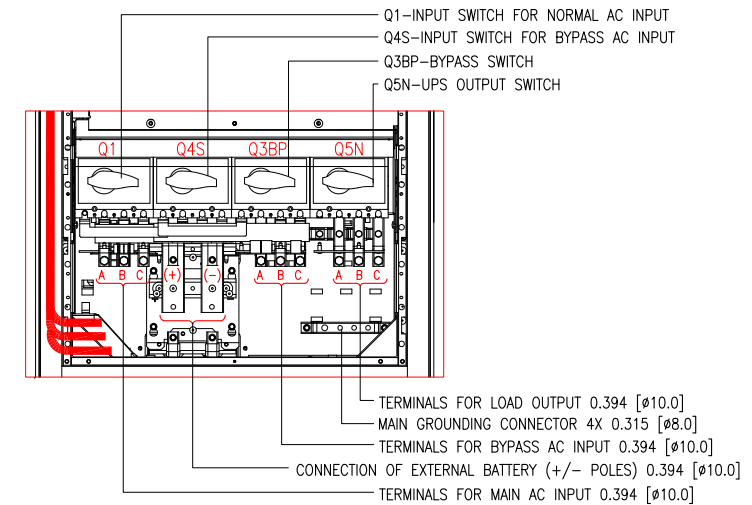
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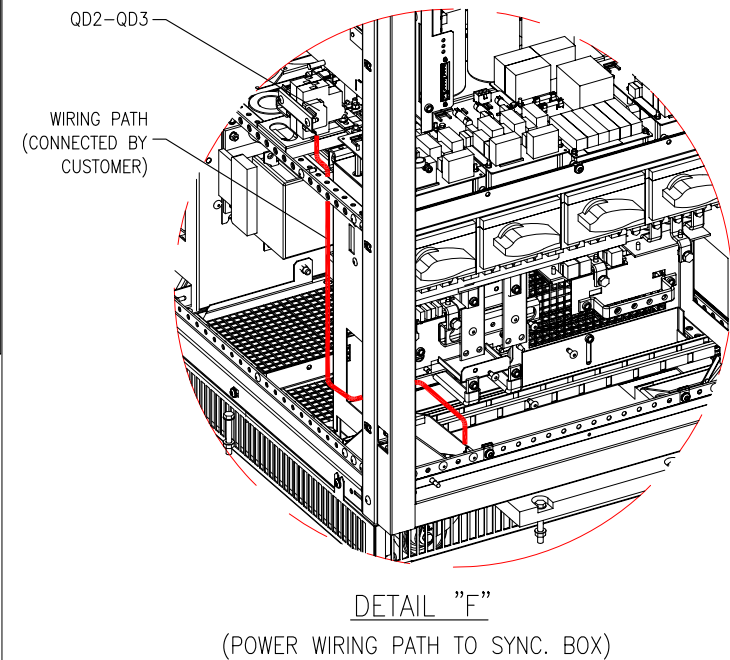
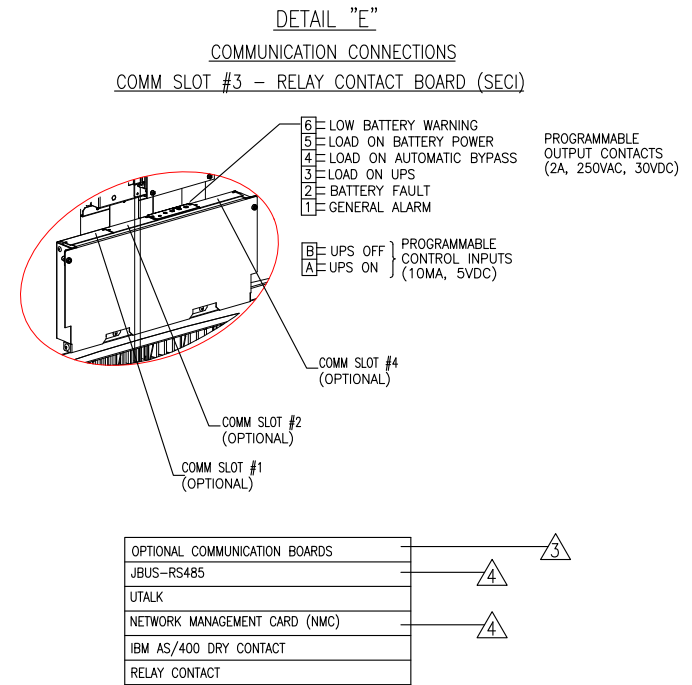
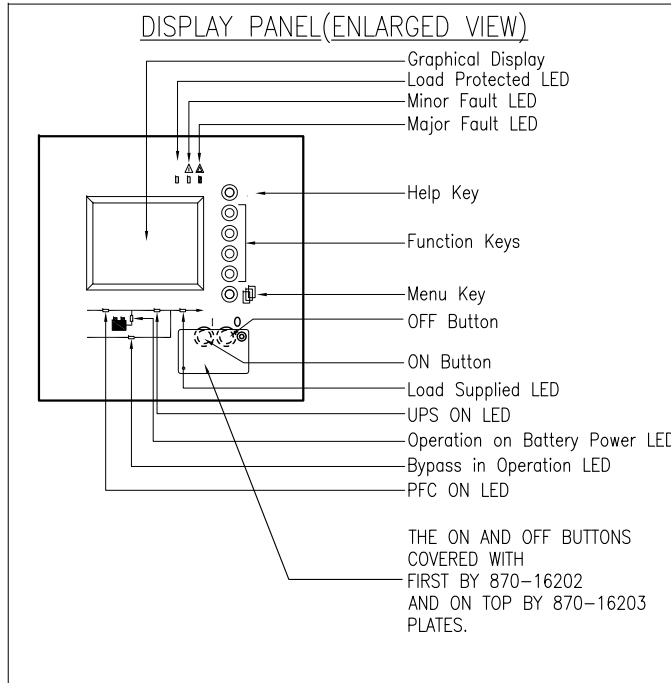
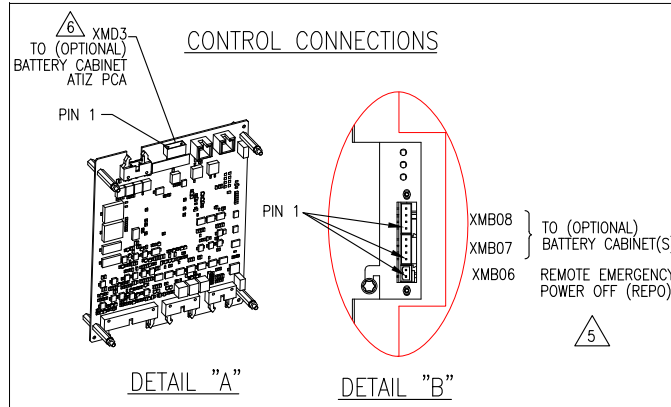
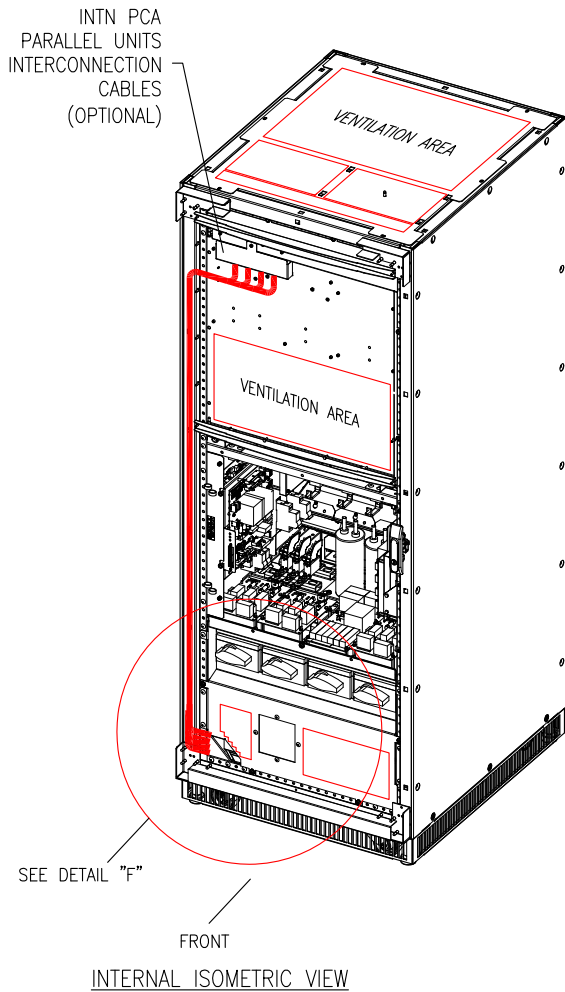
DETAIL-C (POWER CONNECTIONS-SINGLE INPUT)



DETAIL-D (POWER CONNECTIONS-DUAL INPUT)



TITLE: MGE GALAXY 5000 Input: 480 AC 3PH SINGLE MAINS Output: 480V AC 3PH 80kVA UPS, 3-48" W ADJ BATT CABINETS WITH UL924 UPS-POWER CONNECTIONS		DWG NO: SUG580A90UL	REV. 0
PROJECT: DRAWINGS		DRAWN BY: JAYAPRAKASH	4-DEC-12
SHEET 4 OF 9		ENGINEER: SIVA K	13-DEC-12
		APPROVED BY: A DESHPANDE	13-DEC-12
			THIRD ANGLE PROJECTION



NOTES:

1. COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT MANUALS AND FSB# FSB-FM-G5K-008 FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- △3. REMOVE SCREWS TO TILT ASSEMBLY FOR INSTALLATION OF OPTIONAL COMMUNICATION BOARDS.
- △4. INSTALL JBUS BOARD AND NMC BOARD IN SLOTS #1 OF #4 DEPENDING ON HEIGHT OF DB9 CONNECTOR.
- △5. REMOVE JUMPER WHEN USING A REMOTE EPO CIRCUIT.
- △6. RUN THE ATIZ CABLE FOUR TIMES THROUGH THE EMI CORE.
7. SYNC. BOX IS OPTIONAL.

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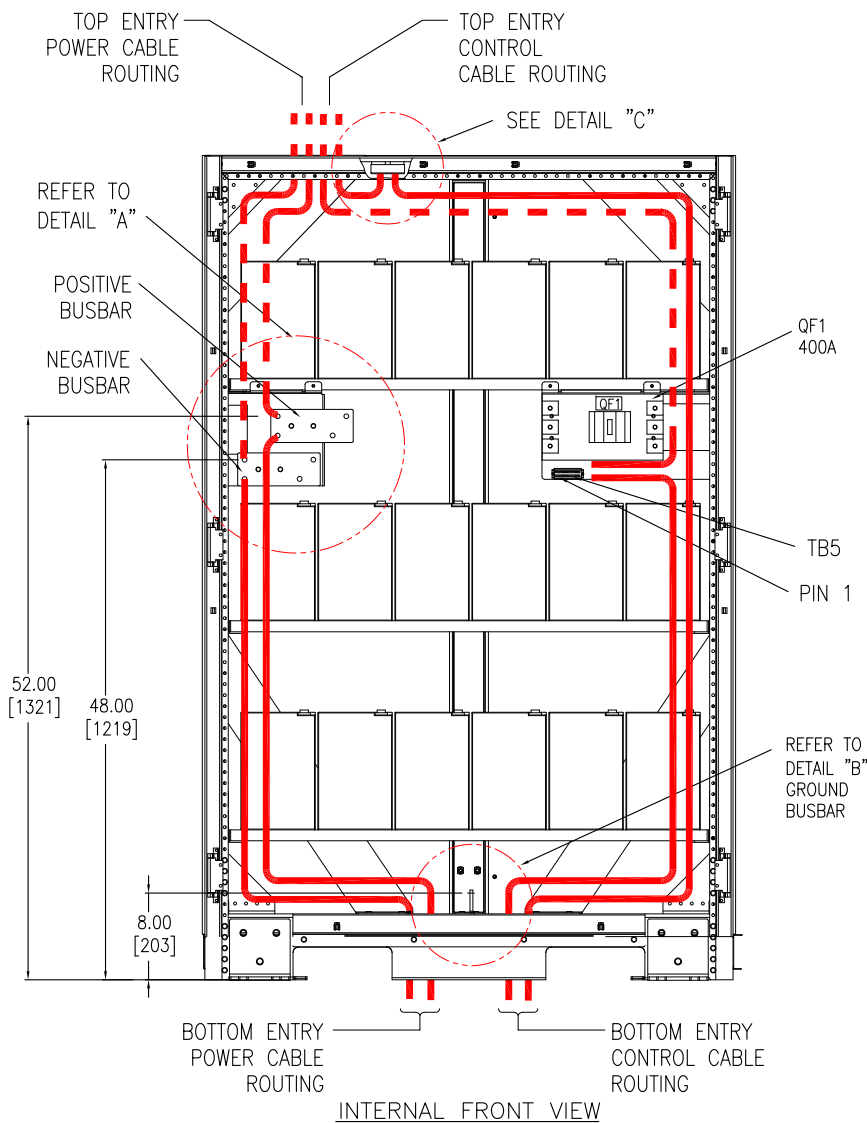
TITLE: MGE GALAXY 5000
Input: 480 AC 3PH SINGLE MAINS
Output: 480V AC 3PH 80kVA
UPS, 3-48" W ADJ BATT CABINETS WITH UL924
UPS-CONTROL CONNECTIONS & HIGH POWER WIRING

PROJECT: DRAWINGS **SHEET 5 OF 9**

DWG NO: SUG580A90UL

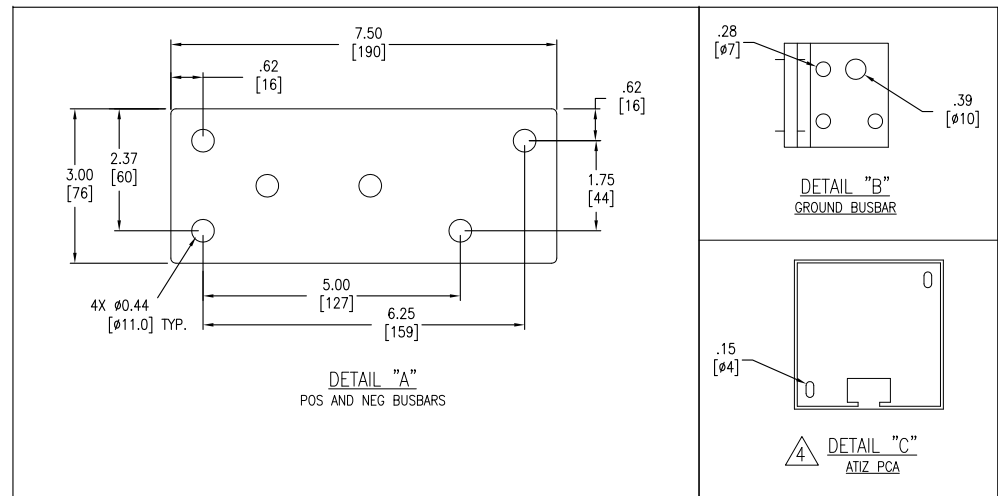
DRAWN BY: JAYAPRAKASH 4-DEC-12
ENGINEER: SIVA K 13-DEC-12
APPROVED BY: A DESHPANDE 13-DEC-12

REV. 0
THIRD
ANGLE
PROJECTION



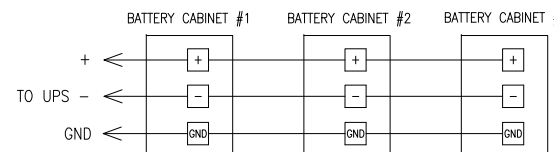
NOTES:

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3. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
- △ 4. MOUNT ATIZ PCA IN FIRST BATTERY CABINET IF MORE THAN ONE CABINET TO BE INSTALLED.
- △ 5. WHEN FIELD INSTALLING THREE OR FOUR BATTERY CABINETS:
ON BATTERY CABINET #1, MOVE JUMPER TO PINS 5 AND 6.
ON BATTERY CABINET #3, MOVE JUMPER TO PINS 2 AND 3.
- △ 6. WHEN FIELD INSTALLING FOUR BATTERY CABINETS:
ON BATTERY CABINET #2, MOVE JUMPER TO PINS 5 AND 6.
ON BATTERY CABINET #4, MOVE JUMPER TO PINS 2 AND 3.
7. FOLLOW POWER AND CONTROL CABLES ROUTING AS SHOWN. FOR MULTIPLE ADJACENT CABINETS, CABLES INTERCONNECT THROUGH MIDDLE OF CABINET.
8. CB UV COIL CURRENT: 69 mA
CONN. XMB07/8 CURRENT SUPPLY: 200mA EACH.
9. SOME STRUCTURAL DETAILS HAVE BEEN OMITTED FOR THE PURPOSE OF CLARITY.

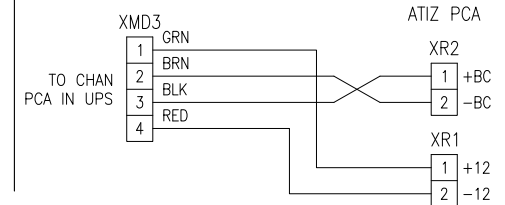


POWER CABLES INTERCONNECTIONS

DC POWER CONNECTION

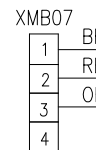


ATIZ CONNECTIONS

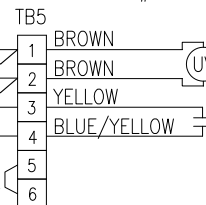


CONTROL CABLES INTERCONNECTIONS

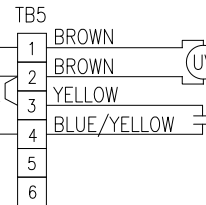
UPS DALIN PCA



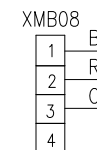
BATTERY CABINET #1



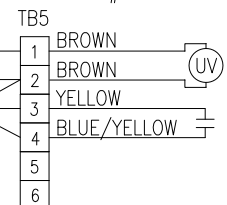
BATTERY CABINET #3



UPS DALIN PCA



BATTERY CABINET #2



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TITLE: MGE GALAXY 5000
Input: 480V AC 3PH SINGLE MAINS
Output: 480V AC 3PH 80kVA
UPS, 3-48" W ADJ BATT CABINETS WITH UL924
BATTERY CABINET INTERNAL VIEW

PROJECT: DRAWINGS **SHEET** 6 OF 9

DWG NO: SUG580A90UL **REV.** 1

DRAWN BY: JAYAPRAKASH/S CUNHA 27-DEC-13 **THIRD**
ENGINEER: SVA K/S DAS 27-DEC-13 **ANGLE**
APPROVED BY: A DESHPANDE/J GOOSSEFF 27-DEC-13 **PROJECTION**

ELECTRICAL DATA SHEET

VIN/VOUT	480V/480V
UPS RATING AT 0.9 PF LAG.	80kVA
INPUT VOLTAGE/OPTIONAL BYPASS INPUT VOLTAGE	480VAC 3PH 60HZ 3W+G
NOMINAL INPUT CURRENT ON UPS / ON BYPASS (A/A)	94/94
MAXIMUM INPUT CURRENT (BATTERY CHARGING) (A/A)	111
OUTPUT VOLTAGE	480VAC 3PH 60HZ 3 CR 4W+G
OUTPUT CURRENT (FULL LOAD) (A/A)	94
BATTERY DC FLOAT VOLTAGE (MAX.) (VDC)	490
BATTERY DC NOMINAL VOLTAGE (VDC)	432
BATTERY DC CURRENT AT NOMINAL VOLTAGE (A)	180
BATTERY MAXIMUM DC CURRENT AT CUT- OFF VOLTAGE (A)	219
Q1, Q4S, Q3BP, Q5N SWITCHES (690V) CURRENT (A)	125
THDI	3%
THDU	≤ 0.5% PHASE TO PHASE FOR LINEAR LOADS, ≤ 2% PHASE TO PHASE FOR NON-LINEAR LOADS
MAXIMUM SHORT CIRCUIT WITHSTAND (KA)	20
HEAT DISSIPATION (BTU/hr) [Kw]	16788 [4.92]
QF1	400A

EFFICIENCY DETAILS

UPS RATING	25% LOAD	50% LOAD	75% LOAD	100% LOAD
80kVA	89.28	92.65	93.53	93.72

LEGEND:

-----	AC CABLE - PROVIDED BY OTHERS
-----	DC CABLE

NOTES:

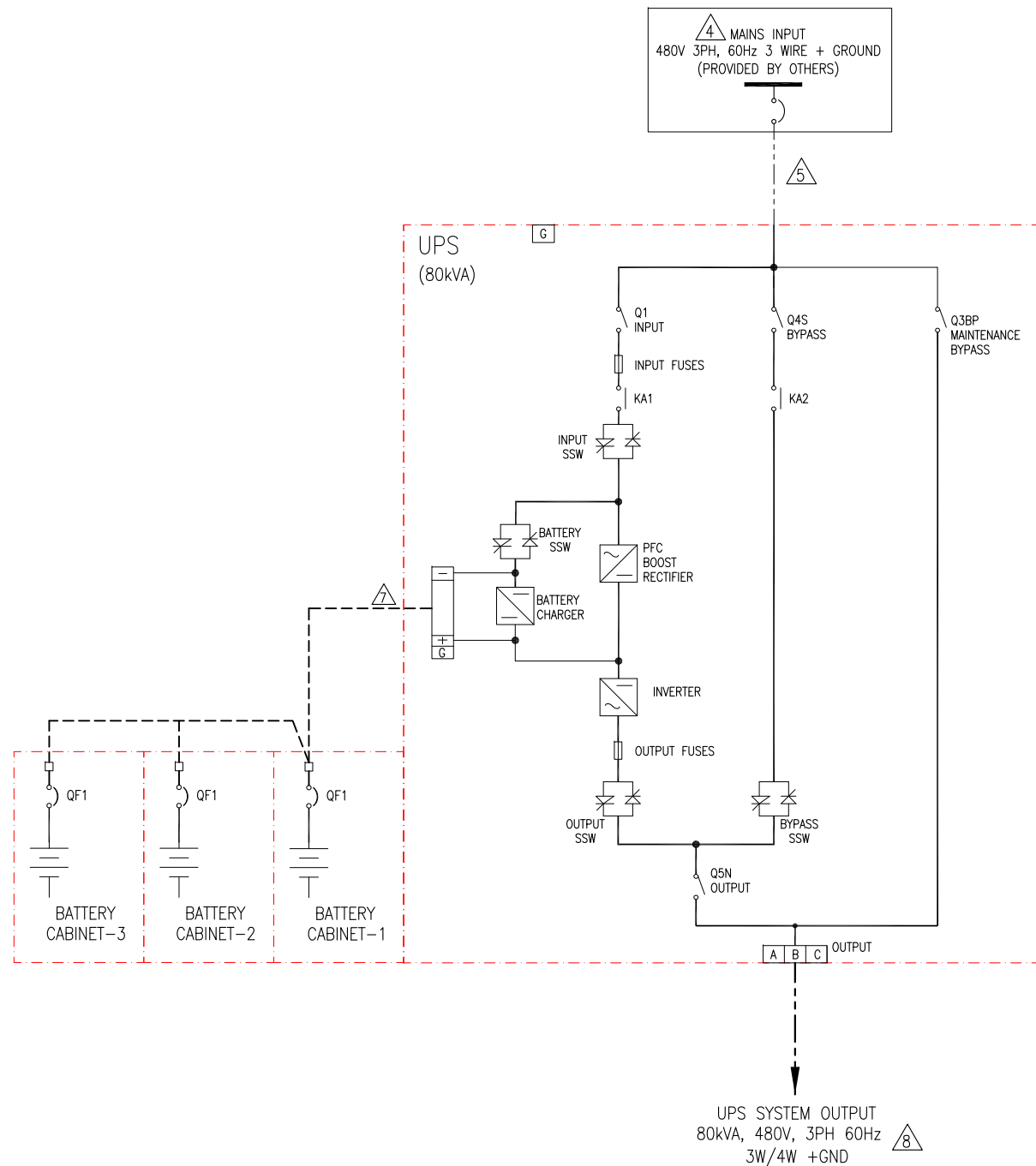
- COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
- REFER TO PRODUCT MANUALS AND FSB# FSB-FM-G5K-008 FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT, PLEASE REFER TO MECHANICAL DRAWINGS FOR PHYSICAL LAYOUT.
- △4. MAINS AC SOURCE TO BE 480VAC 3PH (CONTACT Schneider Electric IF OTHER).
- △5. AC CABLING TO BE 600V RATED, 3 WIRE+GROUND.
- NUMBER OF BATTERY CABINETS (UP TO 4) BASED ON CAPACITY AND BACKUP TIME. REFER TO THE FOLLOWING DRAWINGS FOR DETAILS:
 - 90-174701-00 FOR 26"W & 32"W CABINETS;
 - 90-174701-01 FOR 48"W CABINET.
- SUPPLIED BY SCHNEIDER ELECTRIC AND CONNECTED BY CUSTOMER.
- △8. 4W+G OUTPUT IS POSSIBLE ONLY WITH OUTPUT TRANSFORMER INSTALLED.

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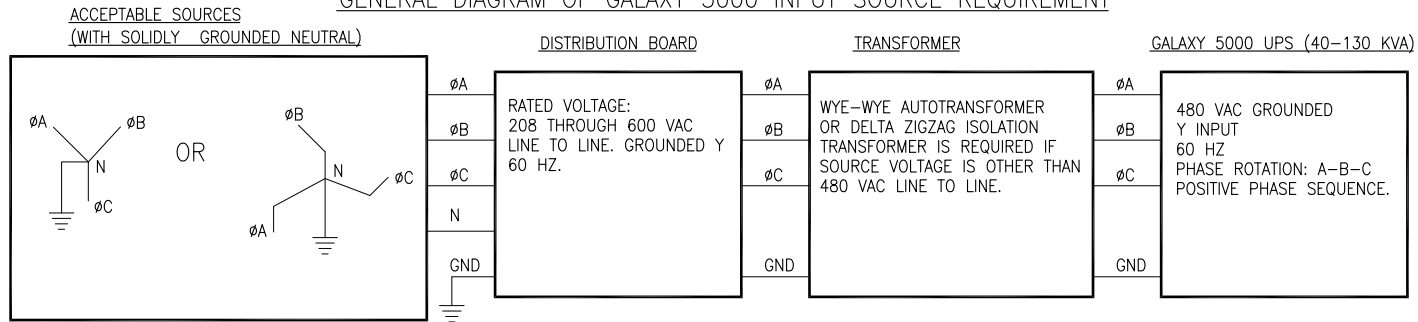


TITLE: MGE GALAXY 5000
 Input: 480 AC 3PH SINGLE MAINS
 Output: 480V AC 3PH 80kVA
 UPS, 3-48" W ADJ BATT CABINETS WITH UL924
 SYSTEM ONE LINE DIAGRAM
PROJECT: DRAWINGS **SHEET** 7 OF 9

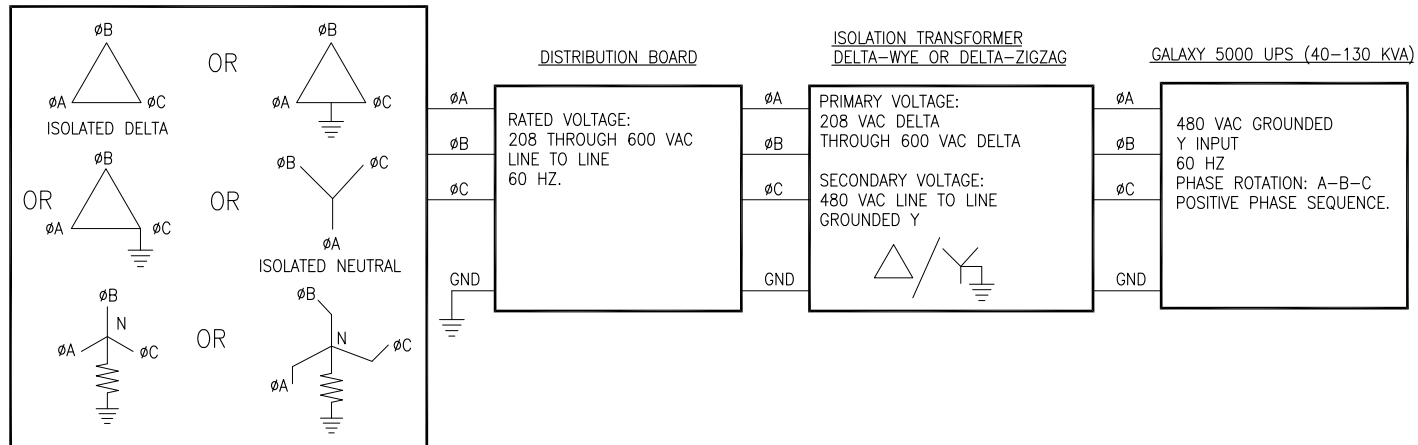
DWG NO: SUG580A90UL **REV.** 1
DRAWN BY: JAYAPRAKASH/S CUNHA 27-DEC-13 ANGLE
ENGINEER: SIVA K/S DAS 27-DEC-13 PROJECTION
APPROVED BY: A DESHPANDE/U GOOSSEFF 27-DEC-13 N/A



GENERAL DIAGRAM OF GALAXY 5000 INPUT SOURCE REQUIREMENT

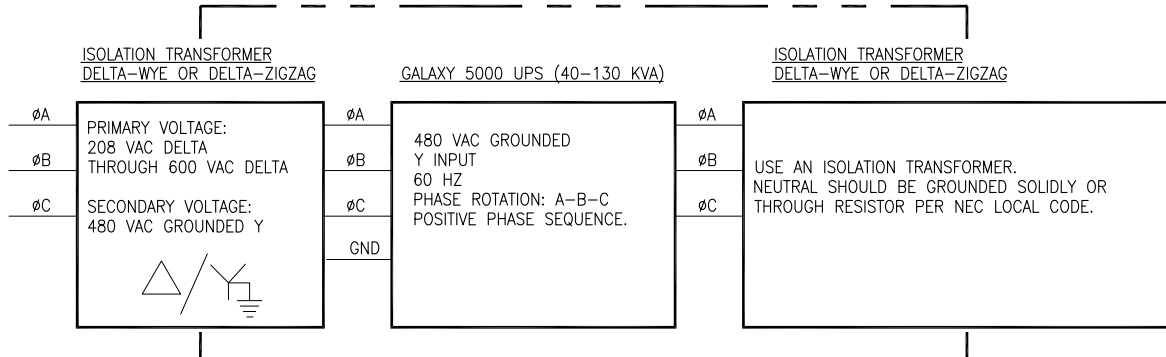


SOURCES THAT REQUIRE DELTA-WYE OR DELTA ZIGZAG ISOLATION TRANSFORMER TO FEED GALAXY 5000 UPS



GENERAL DIAGRAM OF HIGH RESISTANCE GROUNDING APPLICATION

ALL PHASES INSIDE THE DOTTED LINE CAN NOT BE USED FOR GROUND FAULT TEST



NOTES:

1. COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT MANUALS AND FSB# FSB-FM-G5K-008 FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.

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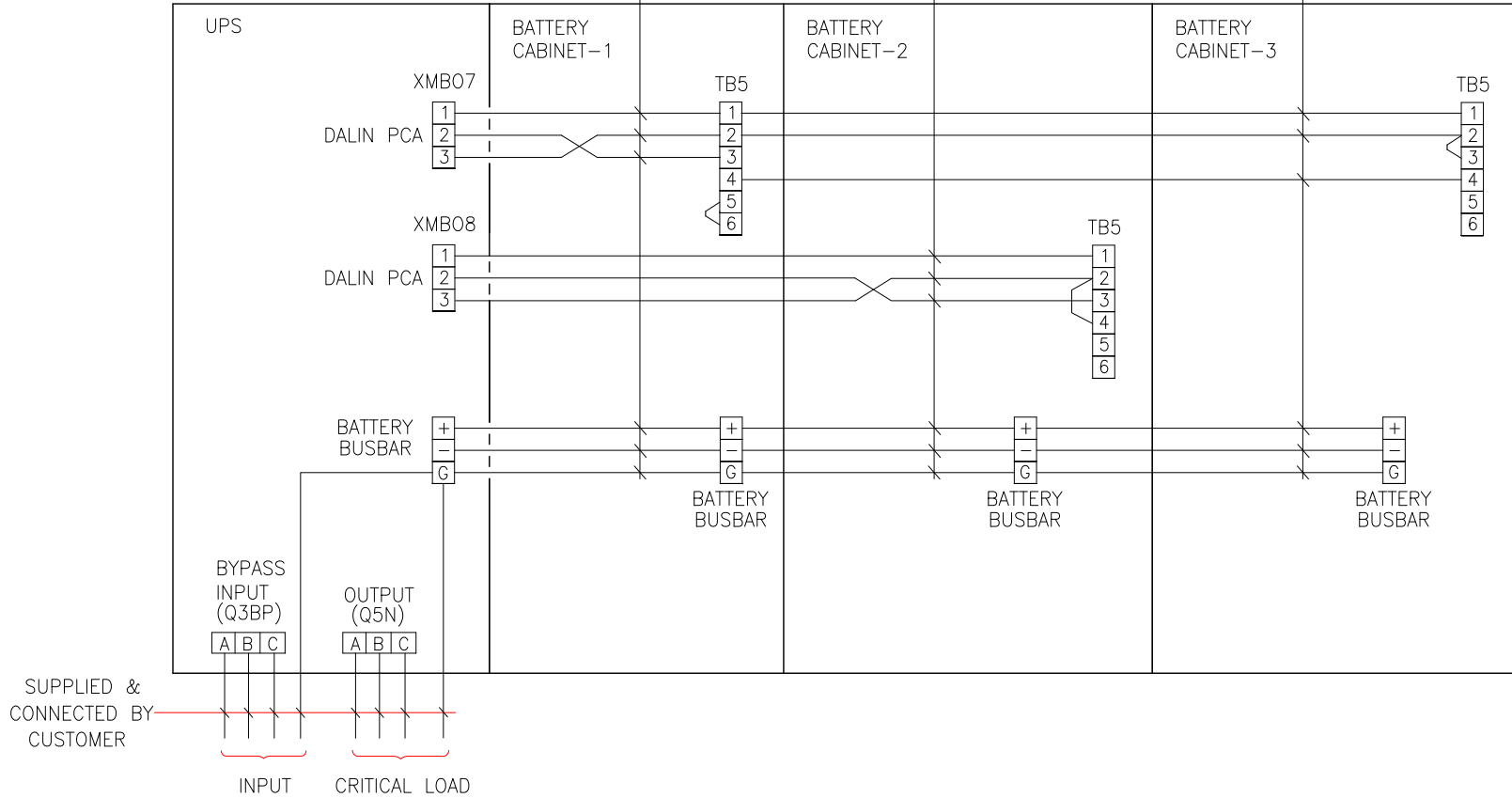


TITLE: MGE GALAXY 5000
Input: 480 AC 3PH SINGLE MAINS
Output: 480V AC 3PH 80kVA
UPS, 3-48" W ADJ BATT CABINETS WITH UL924
ELECTRICAL SOURCE REQUIREMENT

PROJECT: DRAWINGS **SHEET** 8 OF 9

DWG NO:	SUG580A90UL	REV.	0	
DRAWN BY:	JAYAPRAKASH	4-DEC-12	ANGLE	
ENGINEER:	SIVA K	13-DEC-12	PROJECTION	
APPROVED BY:	A DESHPANDE	13-DEC-12	N/A	

SUPPLIED BY
SCHNEIDER ELECTRIC &
CONNECTED BY CUSTOMER



NOTES:

1. COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT MANUALS AND FSB# FSB-FM-G5K-008 FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.

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TITLE: MGE GALAXY 5000
Input: 480 AC 3PH SINGLE MAINS
Output: 480V AC 3PH 80kVA
UPS, 3-48" W ADJ BATT CABINETS WITH UL924
SYSTEM WIRING DIAGRAM

DWG NO: SUG580A90UL REV. 0

DRAWN BY: JAYAPRAKASH 4-DEC-12 ANGLE

ENGINEER: SIVA K 13-DEC-12 PROJECTION

PROJECT: DRAWINGS SHEET 9 OF 9

APPROVED BY: A DESHPANDE 13-DEC-12 N/A