

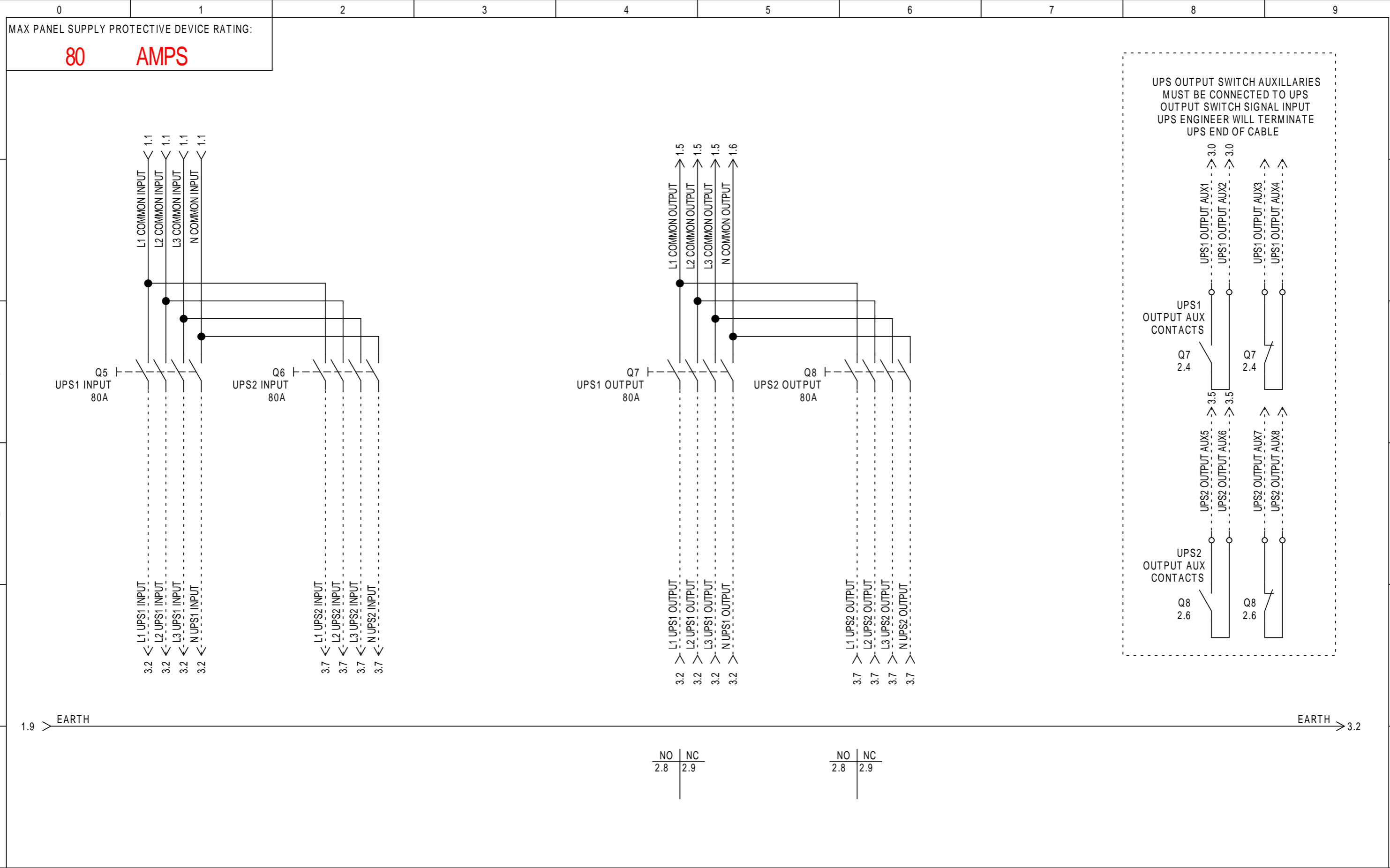
NO	NC
1.8	1.9
1.8	1.9

**NOTES:**

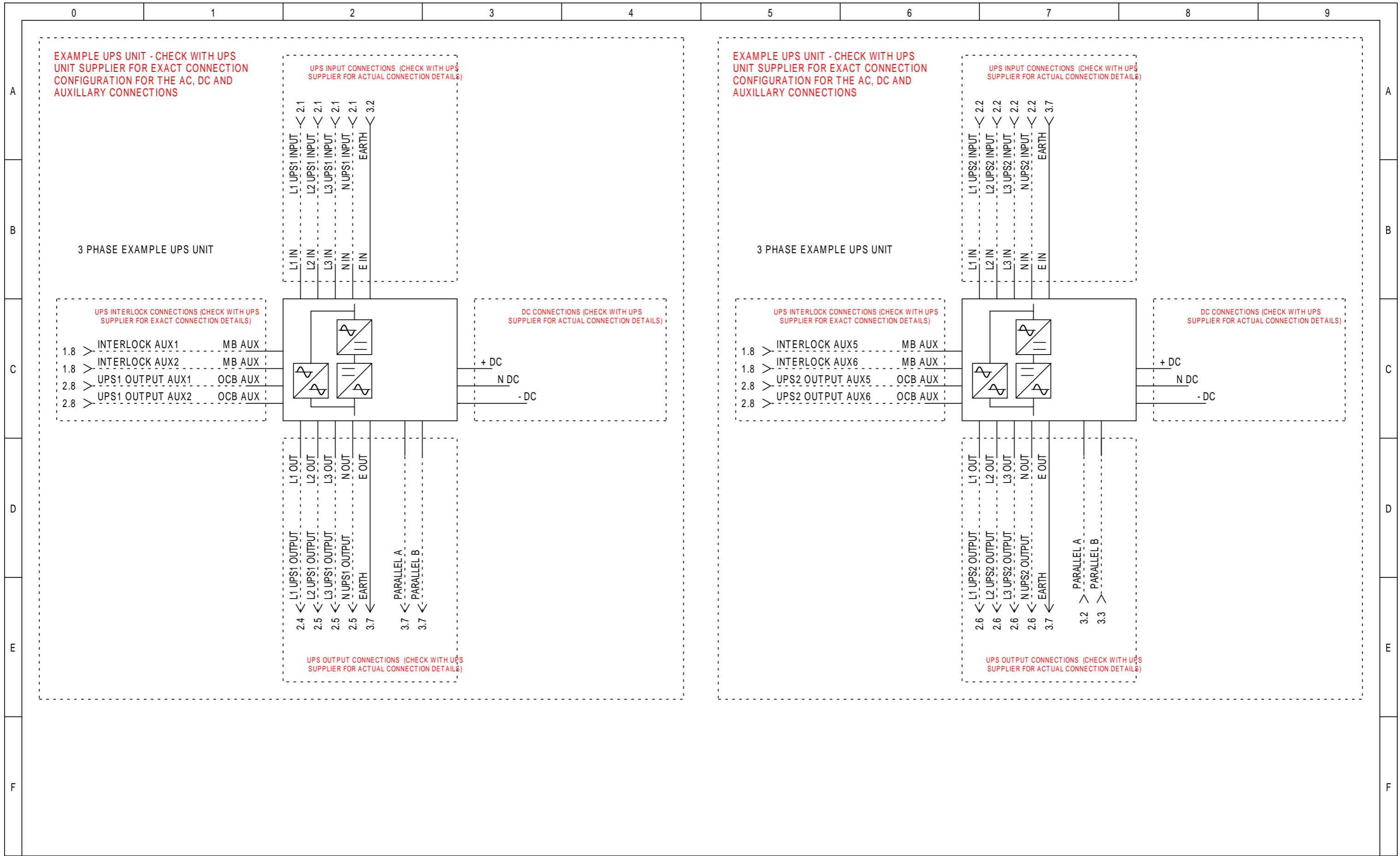
- 1) PRODUCT MUST BE INSTALLED IN COMPLIANCE WITH ALL NATIONAL AND LOCAL ELECTRICAL REGULATIONS
- 2) PLEASE REFER TO UPS PRODUCT MANUALS FOR ADDITIONAL INFORMATION
- 3) ALL DIMENSIONS IN MM UNLESS OTHERWISE SPECIFIED
- 4) 4 - CORE SHIELDED SIGNAL CABLE MUST BE RUN FROM EMBS TO EACH UPS UNIT
- 5) ALL DASHED LINES EXTERNAL TO BYPASS PANEL

PRODUCT REF:	RB1-PR2-EMBS-80A-80A-4P-ISO
DOCUMENT NUMBER:	RBECAD-00243N
PAGE DESCRIPTION:	MAIN SWITCH'S
PROJECT NO:	SUBMITTAL DRAWING
PAGE TEMPLATE REF:	RBQS00078REV2
PRODUCT WEIGHT:	25KG

REV NO:	1
CREATION DATE:	29/04/2016
REV DATE:	18/08/2017
DRAWN BY:	R BARNES
CHECKED BY:	L RICHARDSON
SHEET NUMBER:	1 OF 6



<b>NOTES:</b> 1) PRODUCT MUST BE INSTALLED IN COMPLIANCE WITH ALL NATIONAL AND LOCAL ELECTRICAL REGULATIONS 2) PLEASE REFER TO UPS PRODUCT MANUALS FOR ADDITIONAL INFORMATION 3) ALL DIMENSIONS IN MM UNLESS OTHERWISE SPECIFIED 4) 4 - CORE SHIELDED SIGNAL CABLE MUST BE RUN FROM EMBS TO EACH UPS UNIT 5) ALL DASHED LINES EXTERNAL TO BYPASS PANEL	PRODUCT REF:	RB1-PR2-EMBS-80A-80A-4P-ISO	REV NO:	1
	DOCUMENT NUMBER:	RBECAD-00243N	CREATION DATE:	03/05/2016
	PAGE DESCRIPTION:	N+1 SECTION	REV DATE:	18/08/2017
	PROJECT NO:	SUBMITTAL DRAWING	DRAWN BY:	R BARNES
	PAGE TEMPLATE REF:	RBQS00075REV2	CHECKED BY:	L RICHARDSON
	PRODUCT WEIGHT:	25KG	SHEET NUMBER:	2 OF 6

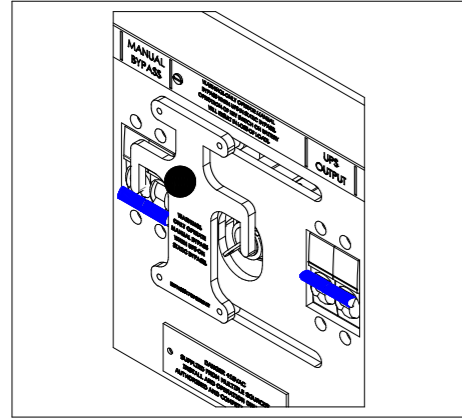


- NOTES:**
- 1) PRODUCT MUST BE INSTALLED IN COMPLIANCE WITH ALL NATIONAL AND LOCAL ELECTRICAL REGULATIONS
  - 2) PLEASE REFER TO UPS PRODUCT MANUALS FOR ADDITIONAL INFORMATION
  - 3) ALL DIMENSIONS IN MM UNLESS OTHERWISE SPECIFIED
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  - 5) ALL DASHED LINES EXTERNAL TO BYPASS PANEL

PRODUCT REF:	RB1-PR2-EMBS-80A-80A-4P-ISO	REV NO:	1
DOCUMENT NUMBER:	RBECAD-00243N	CREATION DATE:	03/05/2016
PAGE DESCRIPTION:	UPS UNITS	REV DATE:	18/08/2017
PROJECT NO:	SUBMITTAL DRAWING	DRAWN BY:	R BARNES
PAGE TEMPLATE REF:	RBQS00078REV2	CHECKED BY:	L RICHARDSON
PRODUCT WEIGHT:	25KG	SHEET NUMBER:	3 OF 6

**DO NOT USE THIS PROCEDURE IF THE MAINS IS NOT AVAILABLE. IF IN ANY DOUBT CONTACT YOUR UPS SERVICE PROVIDER.**

**STEP A (NORMAL POSITION)**



**MANUAL BYPASS:**  
-IN THE OFF POSITION

**INTERLOCK KEY :**  
-INSERTED + TURNED CLOCKWISE

**UPS OUTPUT:**  
-IN THE ON POSITION

**UPS UNIT:**  
-ONLINE - LOAD ON UPS  
-UPS INVERTER NOT BLOCKED

**STEP B**

REFER TO UPS USER MANUAL TO SWITCH THE UPS UNIT (OR UNITS) TO STATIC BYPASS

ONCE UPS UNIT (OR UNITS) ARE IN STATIC BYPASS CONTINUE THE SWITCHING SEQUENCE

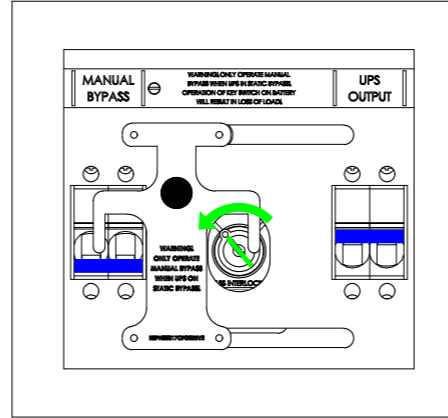
**MANUAL BYPASS:**  
-IN THE OFF POSITION

**INTERLOCK KEY :**  
-INSERTED + TURNED CLOCKWISE

**UPS OUTPUT:**  
-IN THE ON POSITION

**UPS UNIT:**  
-STATIC BYPASS - LOAD ON MAINS  
-UPS INVERTER NOT BLOCKED

**STEP C**



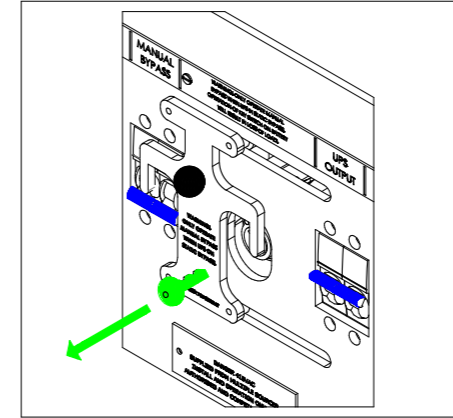
**MANUAL BYPASS:**  
-IN THE OFF POSITION

**INTERLOCK KEY :**  
-INSERTED + TURNED ANTI-CLOCKWISE

**UPS OUTPUT:**  
-IN THE ON POSITION

**UPS UNIT:**  
-STATIC BYPASS - LOAD ON MAINS  
-UPS INVERTER BLOCKED

**STEP D**



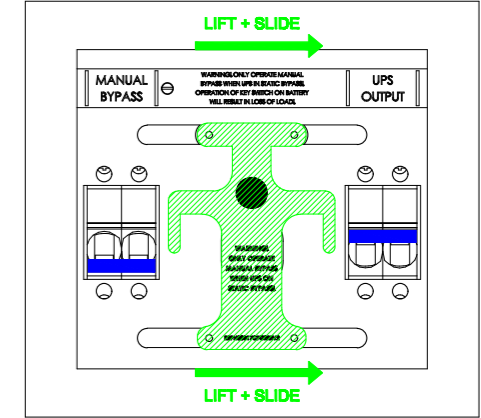
**MANUAL BYPASS:**  
-IN THE OFF POSITION

**INTERLOCK KEY :**  
-REMOVED

**UPS OUTPUT:**  
-IN THE ON POSITION

**UPS UNIT:**  
-STATIC BYPASS - LOAD ON MAINS  
-UPS INVERTER BLOCKED

**STEP E**



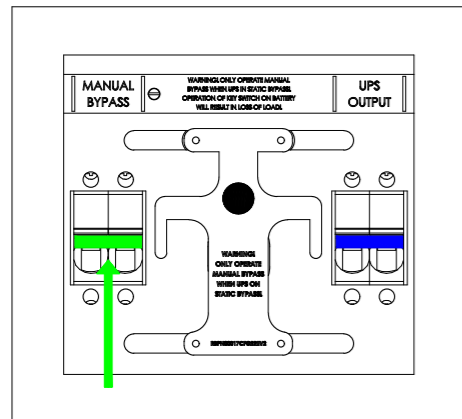
**MANUAL BYPASS:**  
-IN THE OFF POSITION

**INTERLOCK KEY :**  
-REMOVED

**UPS OUTPUT:**  
-IN THE ON POSITION

**UPS UNIT:**  
-STATIC BYPASS - LOAD ON MAINS  
-UPS INVERTER BLOCKED

**STEP F**



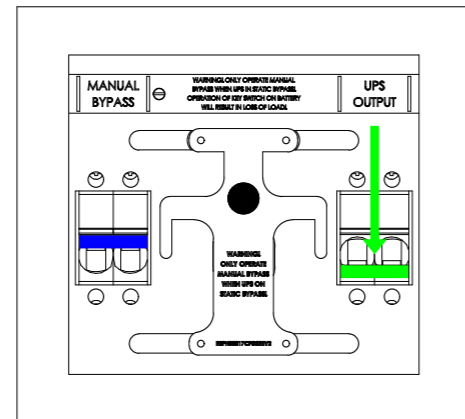
**MANUAL BYPASS:**  
-IN THE ON POSITION

**INTERLOCK KEY :**  
-REMOVED

**UPS OUTPUT:**  
-IN THE ON POSITION

**UPS UNIT:**  
-STATIC BYPASS - LOAD ON MAINS  
-UPS INVERTER BLOCKED

**STEP G**



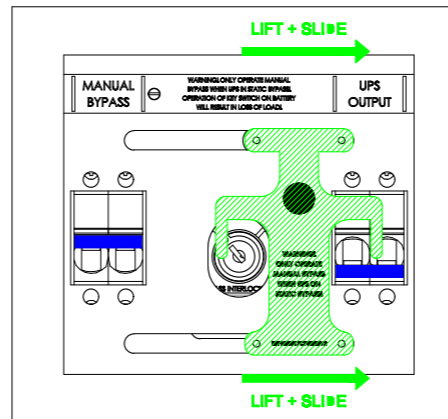
**MANUAL BYPASS:**  
-IN THE ON POSITION

**INTERLOCK KEY :**  
-REMOVED

**UPS OUTPUT:**  
-IN THE OFF POSITION

**UPS UNIT:**  
-STATIC BYPASS - LOAD ON MAINS  
-UPS INVERTER BLOCKED

**STEP H**



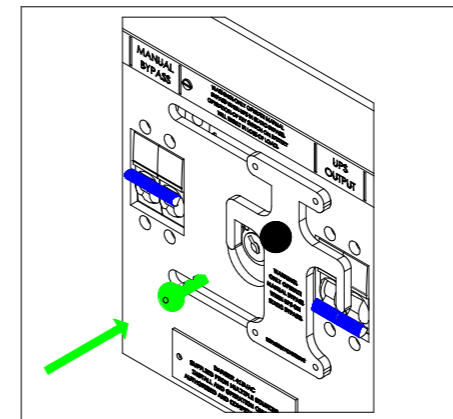
**MANUAL BYPASS:**  
-IN THE ON POSITION

**INTERLOCK KEY :**  
-REMOVED

**UPS OUTPUT:**  
-IN THE OFF POSITION

**UPS UNIT:**  
-STATIC BYPASS - LOAD ON MAINS  
-UPS INVERTER BLOCKED

**STEP I**



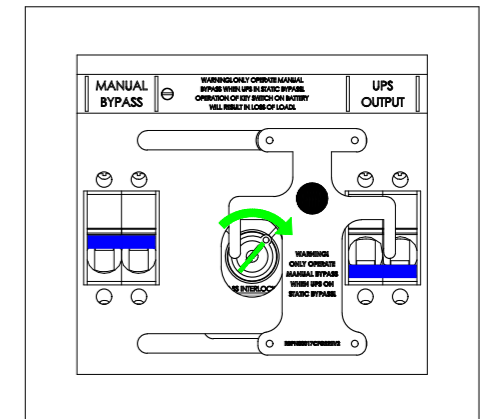
**MANUAL BYPASS:**  
-IN THE ON POSITION

**INTERLOCK KEY :**  
-INSERTED + TURNED ANTI-CLOCKWISE

**UPS OUTPUT:**  
-IN THE OFF POSITION

**UPS UNIT:**  
-STATIC BYPASS - LOAD ON MAINS  
-UPS INVERTER BLOCKED

**STEP J**



**MANUAL BYPASS:**  
-IN THE ON POSITION

**INTERLOCK KEY :**  
-INSERTED + TURNED CLOCKWISE

**UPS OUTPUT:**  
-IN THE OFF POSITION

**UPS UNIT:**  
-STATIC BYPASS - LOAD ON MAINS  
-UPS INVERTER NOT BLOCKED

**NOTES:**

- 1) PRODUCT MUST BE INSTALLED IN COMPLIANCE WITH ALL NATIONAL AND LOCAL ELECTRICAL REGULATIONS
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- 3) ALL DIMENSIONS IN MM UNLESS OTHERWISE SPECIFIED
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- 5) ALL DASHED LINES EXTERNAL TO BYPASS PANEL

PRODUCT REF:	RB1-PR2-EMBS-80A-80A-4P-ISO	REV NO:	1
DOCUMENT NUMBER:	RBECAD-00243N	CREATION DATE:	29/04/2016
PAGE DESCRIPTION:	INTERLOCK OPERATION PAGE 1	REV DATE:	18/08/2017
PROJECT NO:	SUBMITTAL DRAWING	DRAWN BY:	R BARNES
PAGE TEMPLATE REF:	RBQS00078REV2	CHECKED BY:	L RICHARDSON
PRODUCT WEIGHT:	25KG	SHEET NUMBER:	4 OF 6

DO NOT USE THIS PROCEDURE IF THE MAINS IS NOT AVAILABLE. IF IN ANY DOUBT CONTACT YOUR UPS SERVICE PROVIDER.

### STEP K (ON BYPASS POSITION)

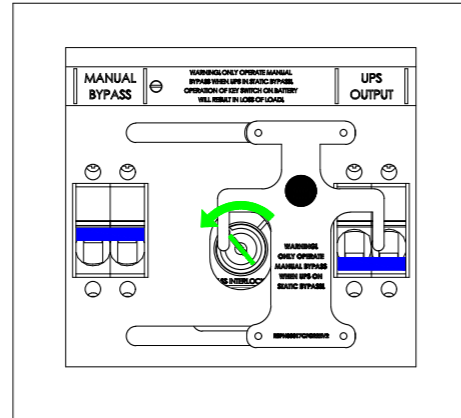
**THIS PROCEDURE ASSUMES:**  
 ALL SWITCH'S ON THE EMBS AND ON THE UPS UNIT SHOULD STILL BE AS PER STEP J ON THE PREVIOUS PAGE PRIOR TO PROCEEDING

THE UPS UNIT SHOULD BE IN STATIC BYPASS AND SHOULD BE READY TO ACCEPT THE SYSTEM LOAD

IF IN ANY DOUBT CONTACT YOUR UPS SYSTEM SERVICE PROVIDER BEFORE PROCEEDING

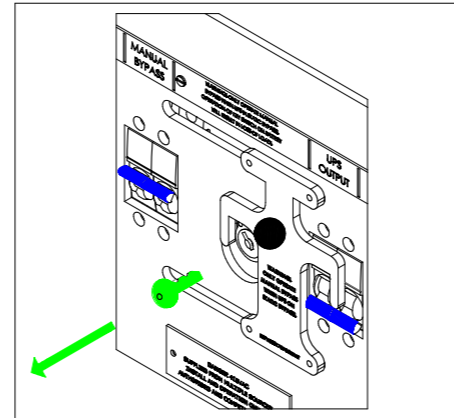
- MANUAL BYPASS:  
-IN THE ON POSITION
- INTERLOCK KEY :  
-INSERTED + TURNED CLOCKWISE
- UPS OUTPUT:  
-IN THE OFF POSITION
- UPS UNIT:  
-STATIC BYPASS - LOAD ON MAINS  
-UPS INVERTER NOT BLOCKED

### STEP L



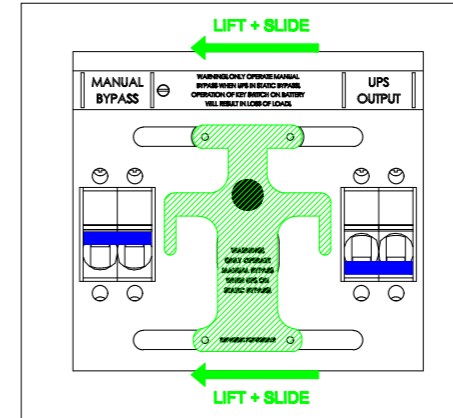
- MANUAL BYPASS:  
-IN THE ON POSITION
- INTERLOCK KEY :  
-INSERTED + TURNED ANTI-CLOCKWISE
- UPS OUTPUT:  
-IN THE OFF POSITION
- UPS UNIT:  
-STATIC BYPASS - LOAD ON MAINS  
-UPS INVERTER BLOCKED

### STEP M



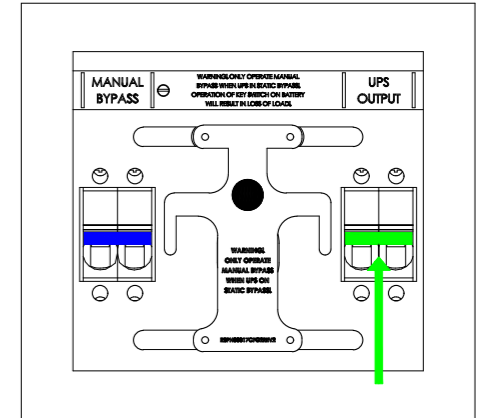
- MANUAL BYPASS:  
-IN THE ON POSITION
- INTERLOCK KEY :  
-REMOVED
- UPS OUTPUT:  
-IN THE OFF POSITION
- UPS UNIT:  
-STATIC BYPASS - LOAD ON MAINS  
-UPS INVERTER BLOCKED

### STEP N



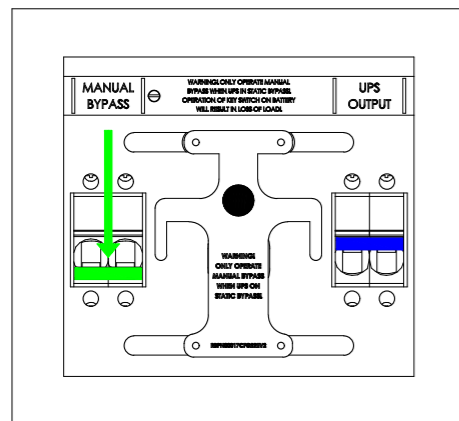
- MANUAL BYPASS:  
-IN THE ON POSITION
- INTERLOCK KEY :  
-REMOVED
- UPS OUTPUT:  
-IN THE OFF POSITION
- UPS UNIT:  
-STATIC BYPASS - LOAD ON MAINS  
-UPS INVERTER BLOCKED

### STEP O



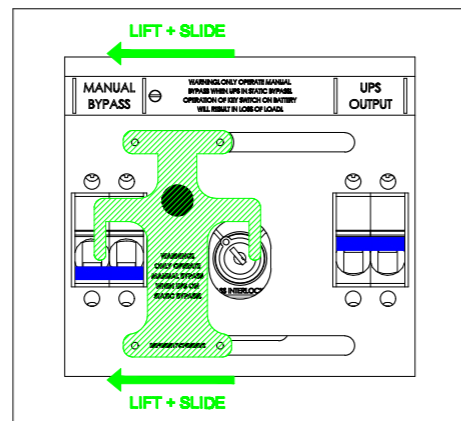
- MANUAL BYPASS:  
-IN THE ON POSITION
- INTERLOCK KEY :  
-REMOVED
- UPS OUTPUT:  
-IN THE ON POSITION
- UPS UNIT:  
-STATIC BYPASS - LOAD ON MAINS  
-UPS INVERTER BLOCKED

### STEP P



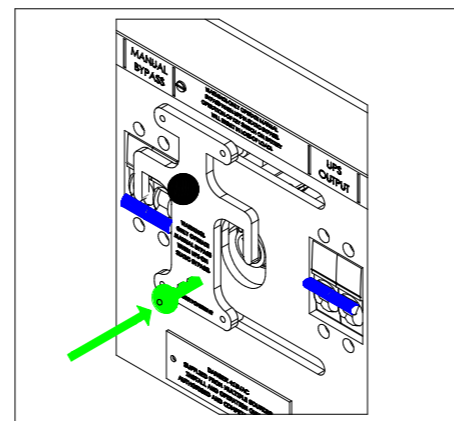
- MANUAL BYPASS:  
-IN THE OFF POSITION
- INTERLOCK KEY :  
-REMOVED
- UPS OUTPUT:  
-IN THE ON POSITION
- UPS UNIT:  
-STATIC BYPASS - LOAD ON MAINS  
-UPS INVERTER BLOCKED

### STEP Q



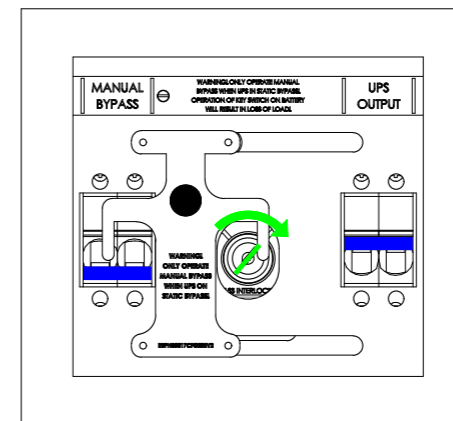
- MANUAL BYPASS:  
-IN THE OFF POSITION
- INTERLOCK KEY :  
-REMOVED
- UPS OUTPUT:  
-IN THE ON POSITION
- UPS UNIT:  
-STATIC BYPASS - LOAD ON MAINS  
-UPS INVERTER BLOCKED

### STEP R



- MANUAL BYPASS:  
-IN THE OFF POSITION
- INTERLOCK KEY :  
-INSERTED + TURNED ANTI-CLOCKWISE
- UPS OUTPUT:  
-IN THE ON POSITION
- UPS UNIT:  
-STATIC BYPASS - LOAD ON MAINS  
-UPS INVERTER BLOCKED

### STEP S



- MANUAL BYPASS:  
-IN THE OFF POSITION
- INTERLOCK KEY :  
-INSERTED + TURNED CLOCKWISE
- UPS OUTPUT:  
-IN THE ON POSITION
- UPS UNIT:  
-STATIC BYPASS - LOAD ON MAINS  
-UPS INVERTER NOT BLOCKED

### STEP T

REFER TO UPS USER MANUAL TO SWITCH THE UPS UNIT (OR UNITS) TO ONLINE MODE

ONCE UPS UNIT (OR UNITS) ARE ONLINE THE SEQUENCE IS COMPLETE AND THE LOAD IS NOW BACKED UP BY UPS

IF IN ANY DOUBT CONTACT YOUR UPS SERVICE PROVIDER

MANUAL BYPASS:  
-IN THE OFF POSITION

INTERLOCK KEY :  
-INSERTED + TURNED CLOCKWISE

UPS OUTPUT:  
-IN THE ON POSITION

UPS UNIT:  
-ONLINE - LOAD ON UPS  
-UPS INVERTER NOT BLOCKED

#### NOTES:

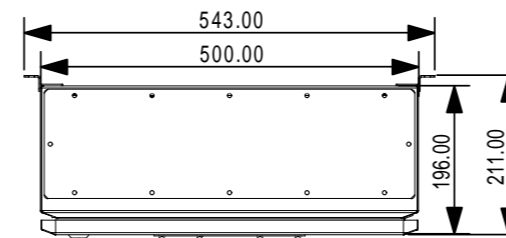
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PRODUCT REF:	RB1-PR2-EMBS-80A-80A-4P-ISO
DOCUMENT NUMBER:	RBECAD-00243N
PAGE DESCRIPTION:	INTERLOCK OPERATION PAGE 2
PROJECT NO:	SUBMITTAL DRAWING
PAGE TEMPLATE REF:	RBQS00078REV2
PRODUCT WEIGHT:	25KG

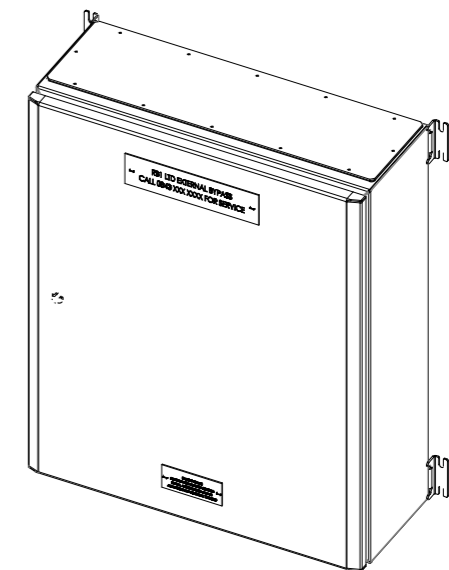
REV NO:	1
CREATION DATE:	29/04/2016
REV DATE:	18/08/2017
DRAWN BY:	R BARNES
CHECKED BY:	L RICHARDSON
SHEET NUMBER:	5 OF 6

# MECHANICAL LAYOUT

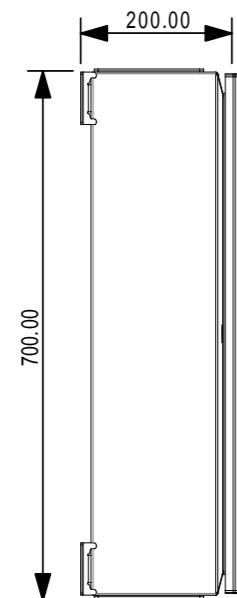
TOP VIEW:



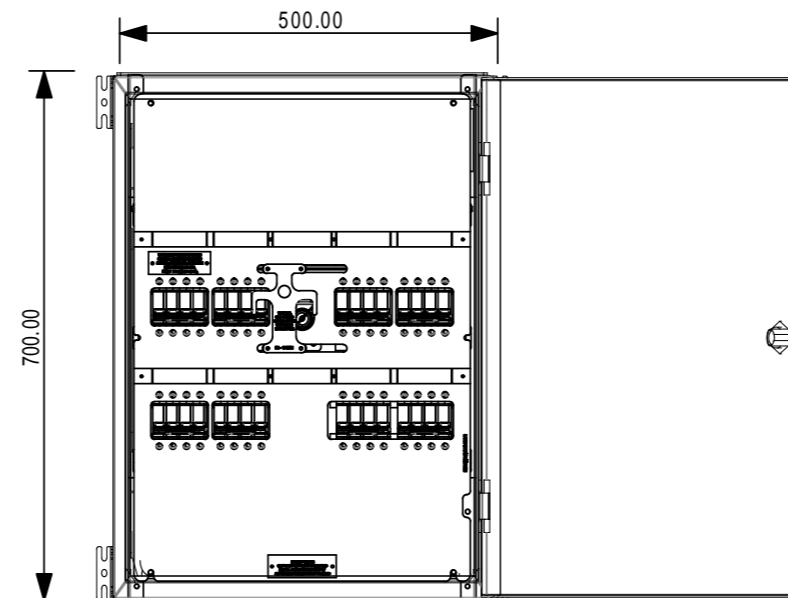
ISO VIEW:



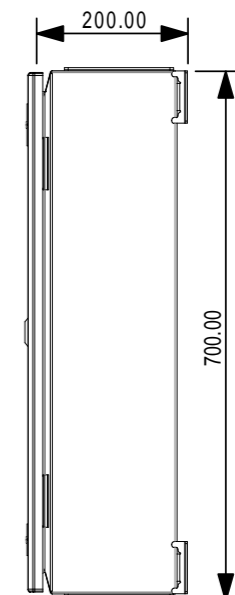
LEFT VIEW:



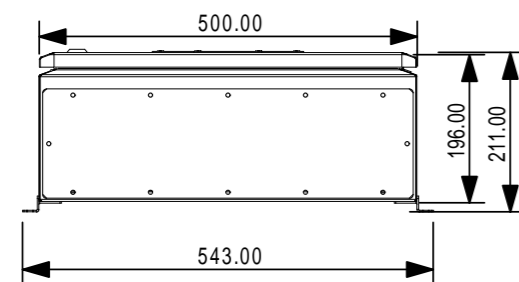
FRONT VIEW:



RIGHT VIEW:



BOTTOM VIEW:



## TERMINATION DETAILS:

MAINS INPUT: TERMINAL (ACCESS TOP/BOTTOM)  
LOAD OUTPUT: TERMINAL (ACCESS TOP/BOTTOM)

EARTH: 6MM STUD (ACCESS TOP/BOTTOM)

UPS IN/OUT: DIRECT TO DEVICE (ACCESS TOP/BOTTOM)

### NOTES:

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PRODUCT REF:	RB1-PR2-EMBS-80A-80A-4P-ISO	REV NO:	1
DOCUMENT NUMBER:	RBECAD-00243N	CREATION DATE:	29/04/2016
PAGE DESCRIPTION:	MECHANICAL LAYOUT	REV DATE:	18/08/2017
PROJECT NO:	SUBMITTAL DRAWING	DRAWN BY:	R BARNES
PAGE TEMPLATE REF:	RBQS00078REV2	CHECKED BY:	L RICHARDSON
PRODUCT WEIGHT:	25KG	SHEET NUMBER:	6 OF 6