



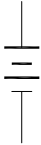


Smart-UPS On-Line

Sheet No.	Component /Detail	Description
1	Draw ing Guide	APC Smart-UPS RT 20kVA RM 230V
2	Isometric View	APC Smart-UPS RT 20kVA RM 230V
3	Main Mechanical	APC Smart-UPS RT 20kVA RM 230V
4	Top and Bottom view s	APC Smart-UPS RT 20kVA RM 230V
5	Internal View s	APC Smart-UPS RT 20kVA RM 230V
6	Input w iring options	APC Smart-UPS RT 20kVA RM 230V
7	Output w iring options	APC Smart-UPS RT 20kVA RM 230V
8	System One Line Diagram	APC Smart-UPS RT 20kVA RM 230V

LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CIRCUIT BREAKER		INVERTER
	SWITCH		CONVERTER
	BATTERY		

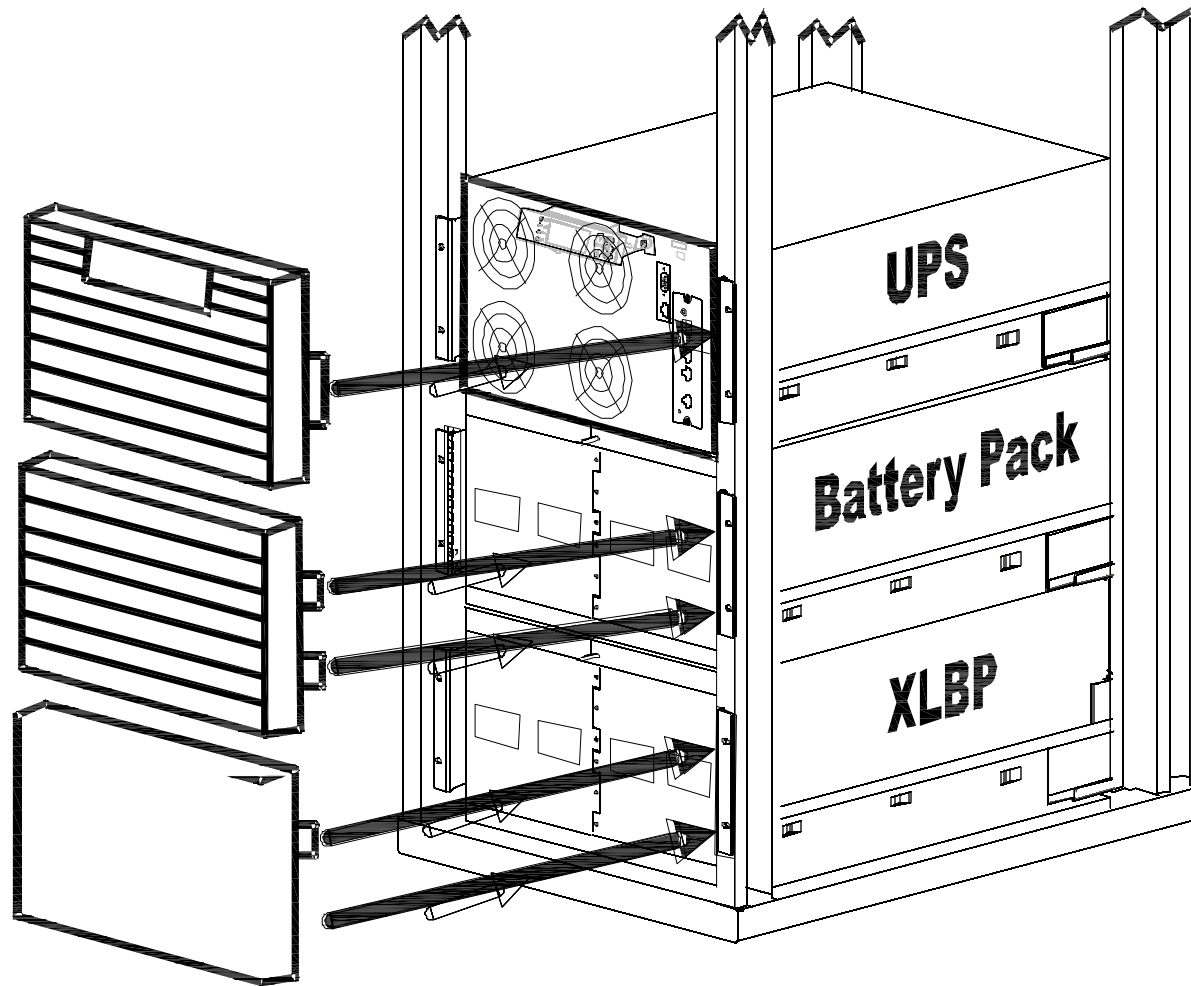
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TITLE: Smart-UPS On-Line
INPUT:220/230/240VAC (1PH+N+G),50/60Hz 1PH
or 380/400/415VAC(3PH+N+G),50/60Hz 3PH
OUTPUT:220/230/240VAC(1PH+N+G),50/60Hz 1PH
or 380/400/415VAC(3PH+N+G),50/60Hz 3PH
DRAWING GUIDE

PROJECT: DRAWINGS SHEET 1 OF 8

DWG NO:	SURT20KRMXLI	REV.	0
DRAWN:	C KRISHNA	06-FEB-13	FIRST
ENGINEER:	E.KOTLYAR	06-FEB-13	ANGLE
APPROVED:	N.WHITING/J.PRECOPIO	06-FEB-13	PROJECTION



ISOMETRIC VIEW

NOTES:

1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
2. REFER TO [PRODUCT DOCUMENTATION](#) FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. COLOR – BLACK
4. PROTECTION CLASS– IP20.

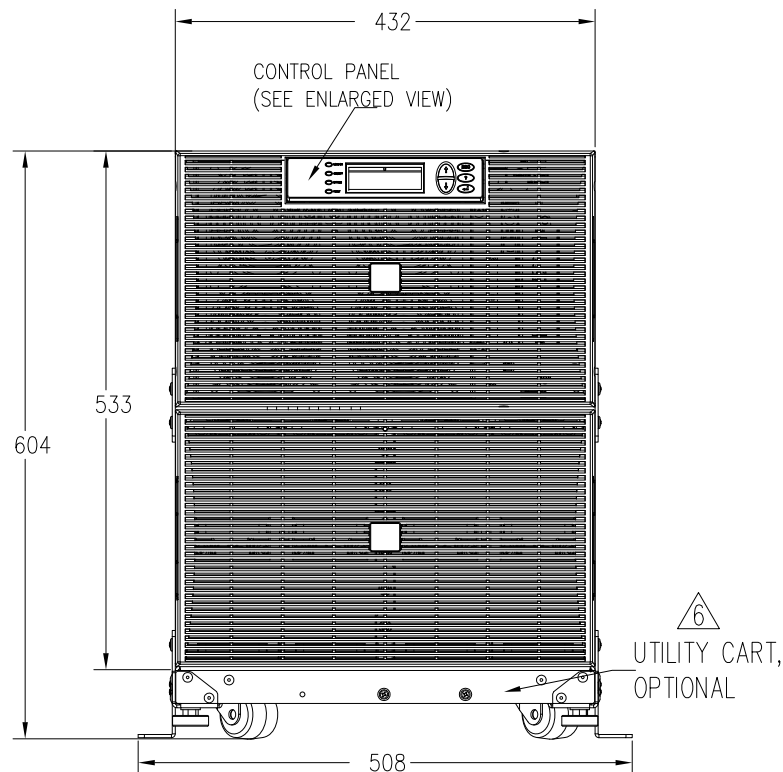
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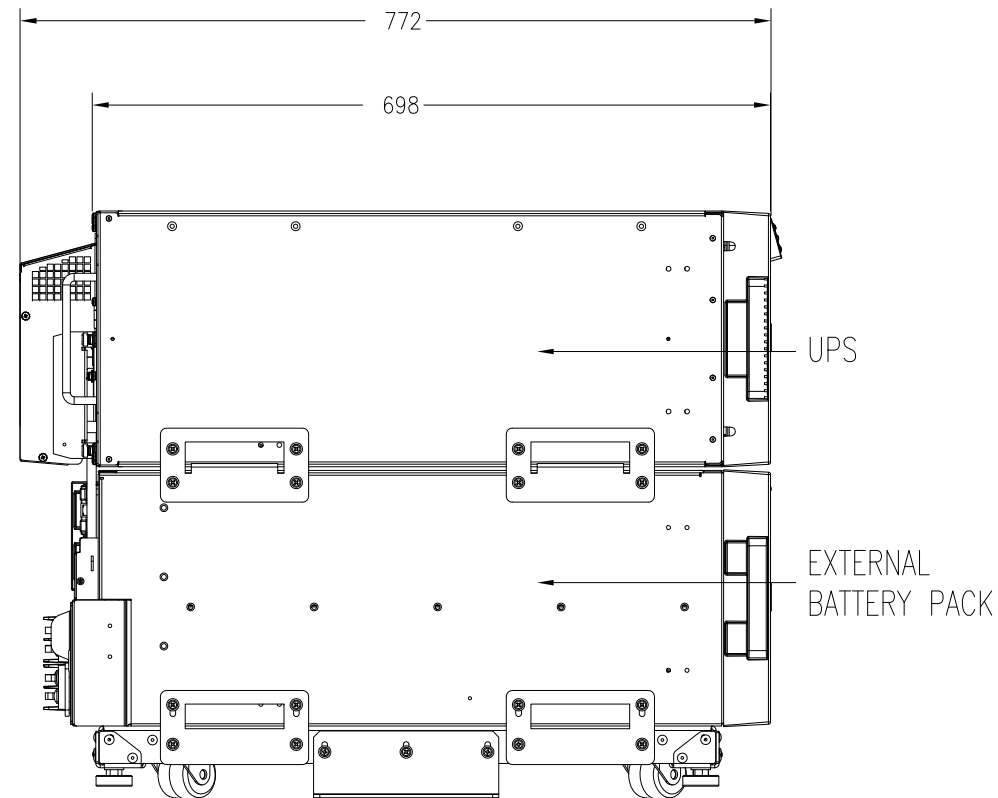
TITLE: Smart-UPS On-Line
INPUT: 220/230/240VAC (1PH+N+G), 50/60Hz 1PH
or 380/400/415VAC (3PH+N+G), 50/60Hz 3PH
OUTPUT: 220/230/240VAC (1PH+N+G), 50/60Hz 1PH
or 380/400/415VAC (3PH+N+G), 50/60Hz 3PH
ISOMETRIC VIEW

PROJECT: DRAWINGS SHEET 2 OF 8

DWG NO:	SURT20KRMXLI	REV.	0
DRAWN:	C. KRISHNA	06-FEB-13	FIRST
ENGINEER:	E. KOTLYAR	06-FEB-13	ANGLE
APPROVED:	N. WHITING/J. PRECOPIO	06-FEB-13	PROJECTION



FRONT VIEW



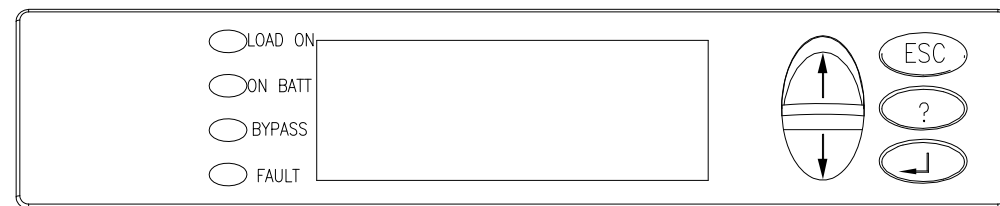
SIDE VIEW

Flore Loading Data			
UPS	Dimensions H x W x D mm	Weight in Kg	Floor Loading kg / m ²
SURT15KRMXLI	533x432x773	247.73	793



NOTES:

1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
4. UPS WEIGHT 66kg.
BATTERY PACK WEIGHT WITH 8 BATTERY MODULES 181kg.
BATTERY PACK WEIGHT WITHOUT BATTERY MODULES 44kg.
EACH BATTERY MODULE WEIGHT 17kg.
TOTAL WEIGHT OF THE UNIT 247.73kg
OPTIONAL UTILITY CART SURT013 ADDS A FURTHER 15KG TO THE TOTAL WEIGHT WHEN USED.
5. CABLE ENTRY IS FROM REAR SIDE OF THE UNIT.
6. UTILITY CART CAN BE ORDERED SEPARATELY AS SURT013 SKU NUMBER
7. THIS DRAWING PROVIDES INFORMATION FOR 15kVA AND 20kVA SURT PRODUCT
8. THE MAXIMUM SINGLE STACKABLE CONFIGURATION IS AN ADDITIONAL XLBP BATTERY PACK PLUS THE UPS AND ITS ASSOCIATED BATTERY PACK.
9. OPERATING TEMPERATURE: 0°C MIN. TO 40°C MAX.
10. THIS INFORMATION PROVIDED CONSERVATIVE CENTER OF GRAVITY CALCULATION.



CONTROL PANEL
(ENLARGED VIEW)

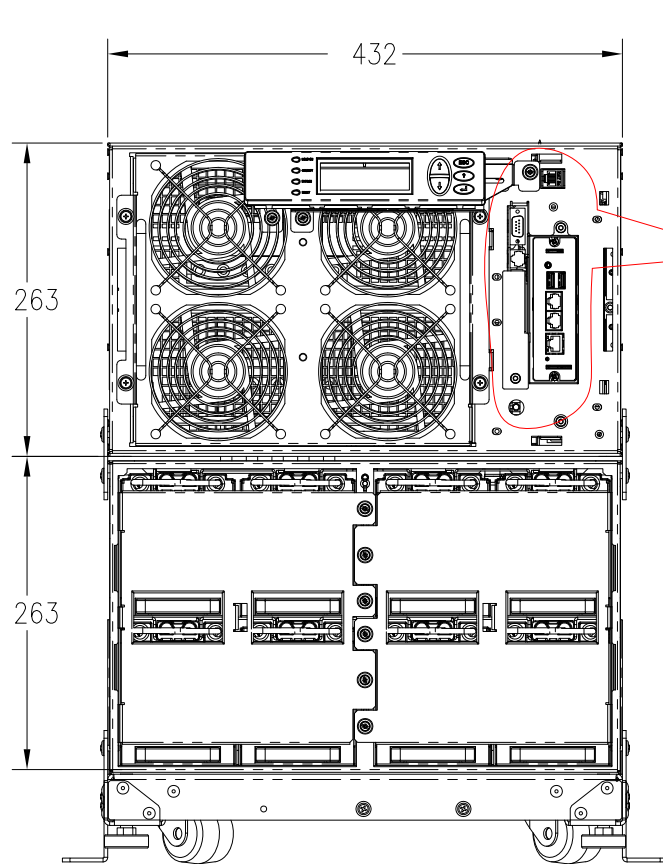
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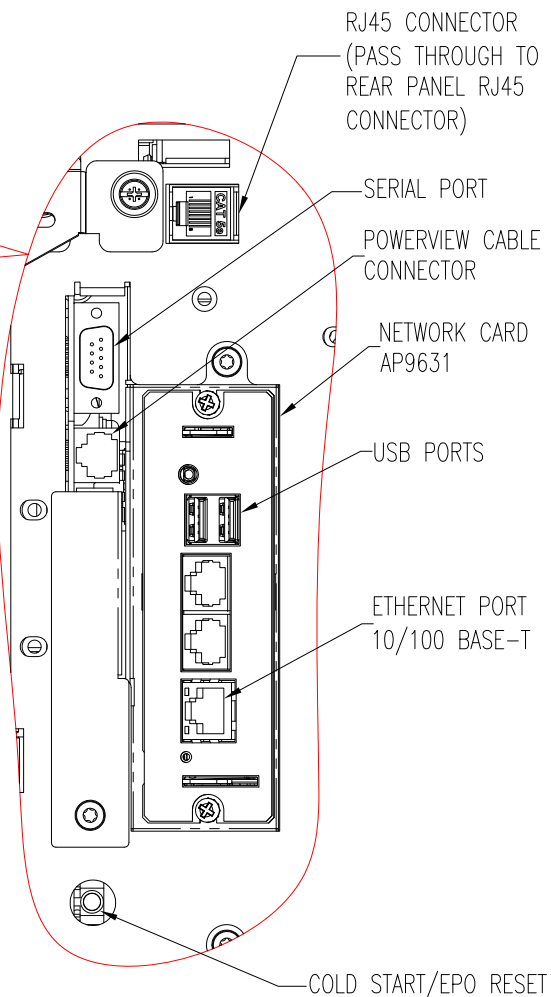
TITLE: Smart-UPS On-Line
INPUT: 220/230/240VAC (1PH+N+G), 50/60Hz 1PH
or 380/400/415VAC (3PH+N+G), 50/60Hz 3PH
OUTPUT: 220/230/240VAC (1PH+N+G), 50/60Hz 1PH
or 380/400/415VAC (3PH+N+G), 50/60Hz 3PH
MAIN MECHANICAL

PROJECT: DRAWINGS SHEET 3 OF 8

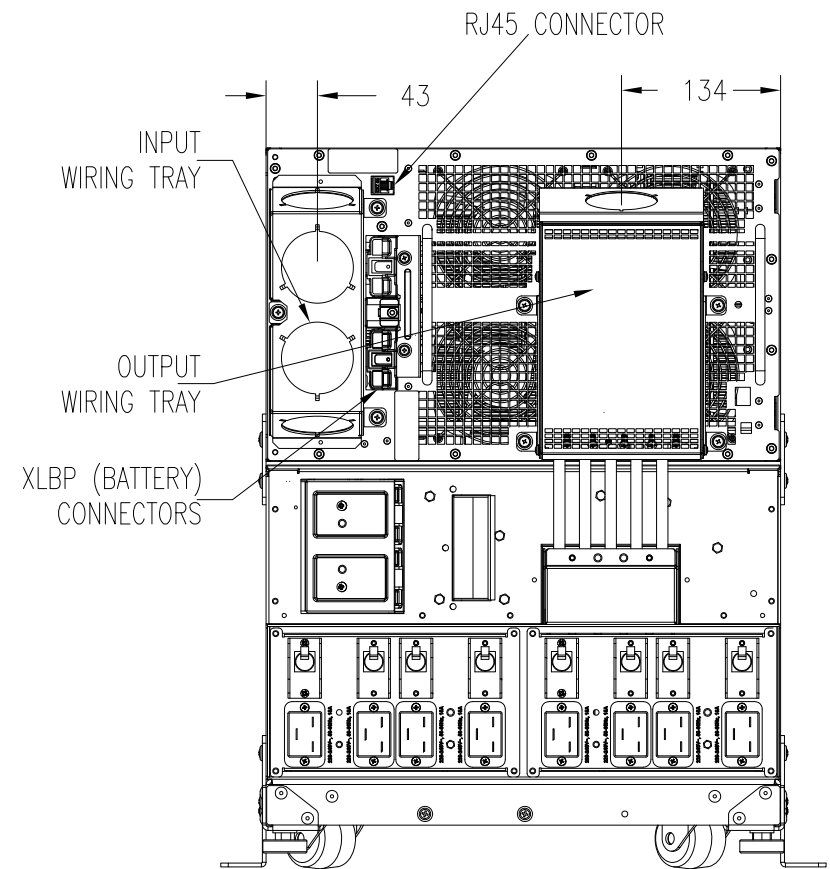
DWG NO: SURT20KRMXLI REV. 0
DRAWN: C. KRISHNA 06-FEB-13 FIRST ANGLE PROJECTION
ENGINEER: E. KOTLYAR 06-FEB-13
APPROVED: N. WHITING/J. PRECOPIO 06-FEB-13



FRONT VIEW
(BEZELS REMOVED)



INTERFACE
ENLARGED VIEW



REAR VIEW

NOTES:

1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN MILLIMETERS.

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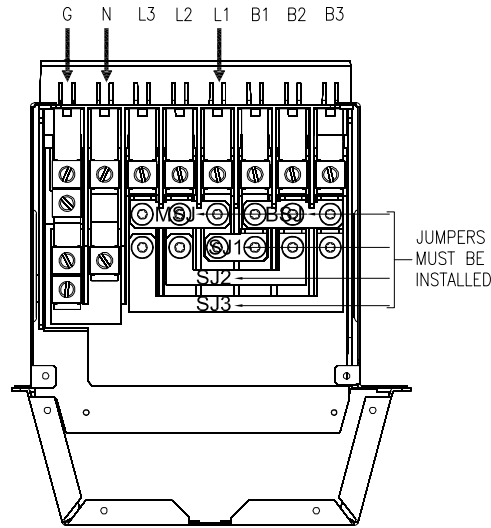
TITLE: Smart-UPS On-Line
INPUT: 220/230/240VAC (1PH+N+G), 50/60Hz 1PH
or 380/400/415VAC (3PH+N+G), 50/60Hz 3PH
OUTPUT: 220/230/240VAC (1PH+N+G), 50/60Hz 1PH
or 380/400/415VAC (3PH+N+G), 50/60Hz 3PH
INTERNAL VIEWS

PROJECT: DRAWINGS SHEET 5 OF 8

DWG NO:	SURT20KRMXLI	REV:	0
DRAWN:	C. KRISHNA	06-FEB-13	FIRST ANGLE PROJECTION
ENGINEER:	E. KOTLYAR	06-FEB-13	
APPROVED:	N. WHITING/J. PRECOPIO	06-FEB-13	

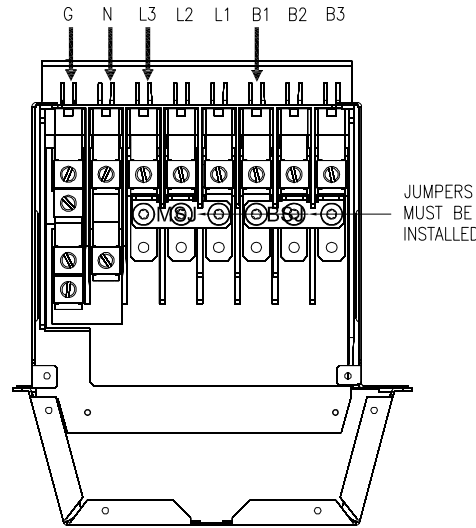
INPUT WIRING OPTION-1

SINGLE PHASE INPUT
SINGLE PHASE OUTPUT
SINGLE FEED



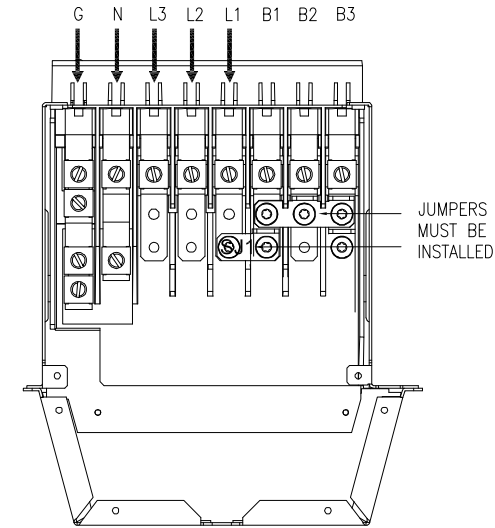
INPUT WIRING OPTION-2

SINGLE PHASE INPUT
SINGLE PHASE OUTPUT
DUAL FEED



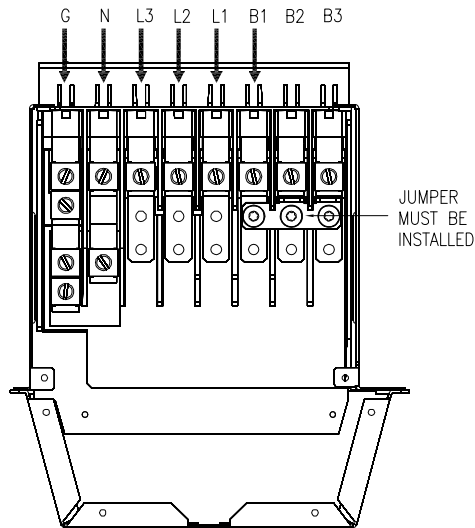
INPUT WIRING OPTION-3

THREE PHASE INPUT
SINGLE PHASE OUTPUT
SINGLE FEED



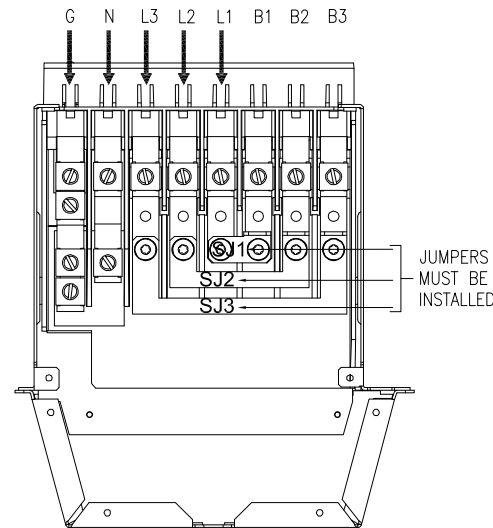
INPUT WIRING OPTION-4

THREE PHASE INPUT
SINGLE PHASE OUTPUT
DUAL FEED



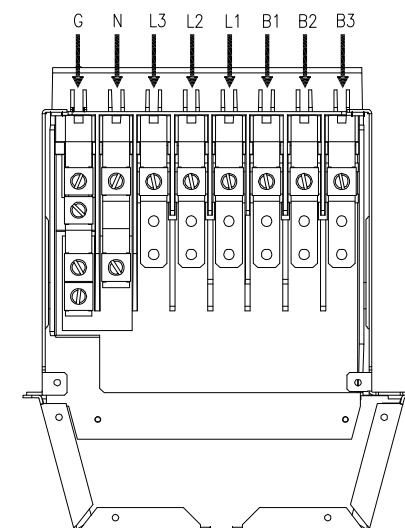
INPUT WIRING OPTION-5

THREE PHASE INPUT
THREE PHASE OUTPUT
SINGLE FEED



INPUT WIRING OPTION-6

THREE PHASE INPUT
THREE PHASE OUTPUT
DUAL FEED



NOTES:

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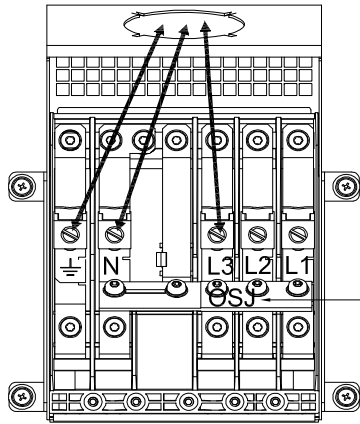
Schneider Electric

TITLE: Smart-UPS On-Line
INPUT: 220/230/240VAC (1PH+N+G), 50/60Hz 1PH
or 380/400/415VAC (3PH+N+G), 50/60Hz 3PH
OUTPUT: 220/230/240VAC (1PH+N+G), 50/60Hz 1PH
or 380/400/415VAC (3PH+N+G), 50/60Hz 3PH
INPUT WIRING OPTIONS

PROJECT: DRAWINGS SHEET 6 OF 8

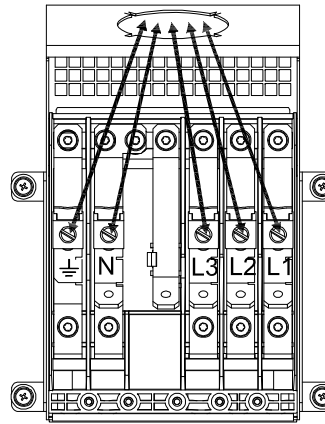
DWG NO:	SURT20KRMXLI	REV.	0
DRAWN:	C. KRISHNA	06-FEB-13	FIRST ANGLE PROJECTION
ENGINEER:	E. KOTLYAR	06-FEB-13	
APPROVED:	N. WHITING/J. PRECOPIO	06-FEB-13	

OUTPUT HARDWIRE OPTION-1
SINGLE PHASE HARDWIRE
OUTPUT CONNECTION

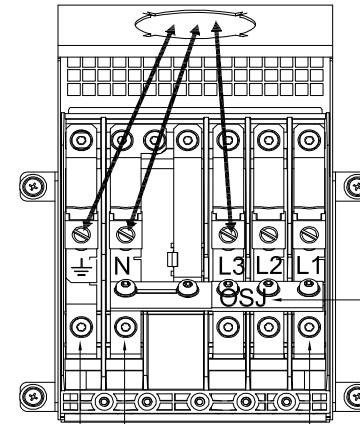


ENSURE THE (OSJ) IS
SECURED TO THE OUTPUT
WIRING TRAY USING THE
FIVE SCREWS PROVIDED

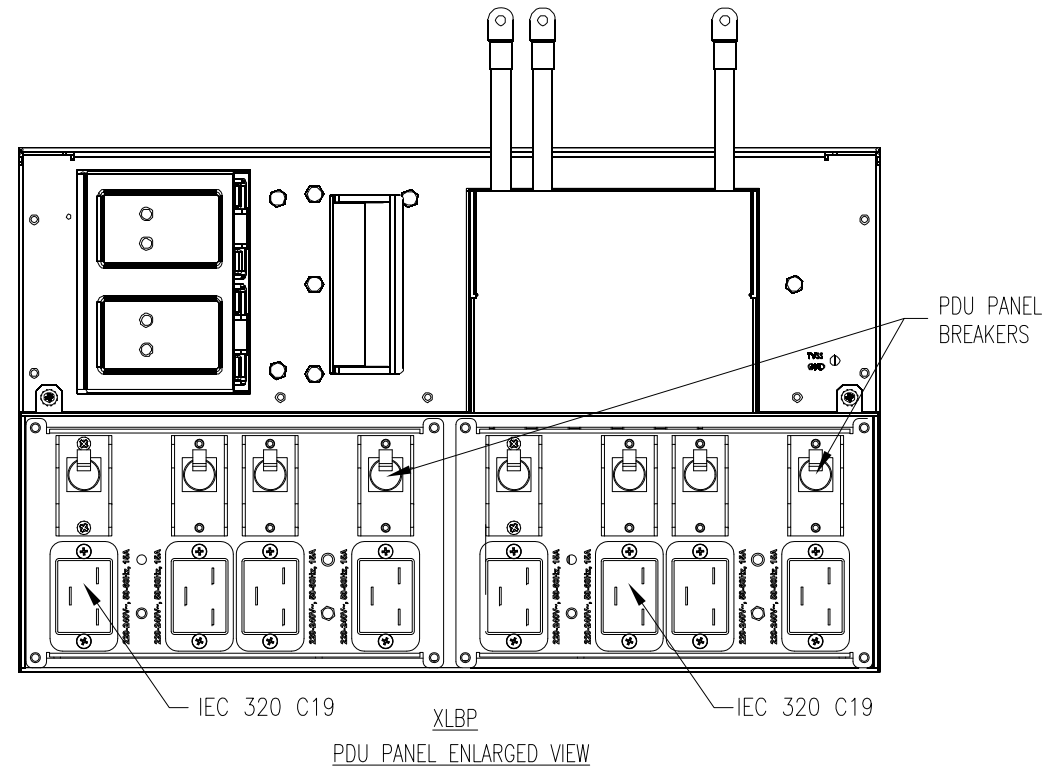
OUTPUT HARDWIRE OPTION-2
THREE PHASE HARDWIRE
OUTPUT CONNECTION XLBP PDU NOT CONNECTED
OUTPUT SHORTING JUMPER (OSJ) REMOVED



OUTPUT PDU OPTION
SINGLE PHASE OUTPUT
CONNECTION TO BATTERY PACK PDU



ENSURE THE (OSJ) IS
SECURED TO THE OUTPUT
WIRING TRAY USING THE
FIVE SCREWS PROVIDED



NOTES:

1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
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Electric**

TITLE: Smart-UPS On-Line
INPUT: 220/230/240VAC (1PH+N+G), 50/60Hz 1PH
or 380/400/415VAC (3PH+N+G), 50/60Hz 3PH
OUTPUT: 220/230/240VAC (1PH+N+G), 50/60Hz 1PH
or 380/400/415VAC (3PH+N+G), 50/60Hz 3PH
OUTPUT WIRING OPTIONS

PROJECT: DRAWINGS SHEET 7 OF 8

DWG NO: SURT20KRMXLI
DRAWN: C. KRISHNA
ENGINEER: E. KOTLYAR
APPROVED: N. WHITING/J. PRECOPIO

REV. 0
06-FEB-13
06-FEB-13
06-FEB-13
FIRST
ANGLE
PROJECTION

Efficiency Details				
System	25% load	load 50%	75% load	100% load
SURT15KRMXLI	93.8	95	94.9	94.6

- NOTES:
1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
 2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
 - Δ 3. UTILITY SOURCE MUST BE 1PH 220/230/240VAC 50/60Hz 1PH+N+G OR 3PH 380/400/415VAC (3PH+N+G) 50/60Hz, SINGLE FEED OR DUAL FEED INCLUDING SEPARATE BYPASS INPUT FEEDS PROVIDED BY OTHERS.
 - Δ 4. DASHED LINES BETWEEN UNITS (- - -) REPRESENT CABLING PROVIDED BY OTHERS.
 - Δ 5. ADDITIONAL EXTERNAL BATTERY PACKS, (UPTO 10) CAN BE CONNECTED TO INCREASE THE RUN TIME FURTHER.
 - Δ 6. FACTORY DEFAULT INPUT WIRING TRAY CONFIGURATION IS 1 PH & 1 FEED. THIS CAN BE CONFIGURED FOR 3PH OR DUAL FEED UTILITY SOURCES. REFER TO INSTALLATION MANUAL FOR DETAILED INSTRUCTIONS.
 - Δ 7. OUTPUT WIRING TRAY CAN BE CONFIGURED FOR 1PH OR 3PH OUTPUTS. REFER TO INSTALLATION MANUAL FOR DETAILED INSTRUCTIONS.
 - Δ 8. PDU PANELS ARE MOUNTED ON THE REAR OF THE BATTERY PACK. OTHER, OPTIONAL, PDU PANELS CAN BE PURCHASED SEPARATELY AND INSTALLED TO PROVIDE ALTERNATIVE LOAD CONNECTIONS.
 9. INPUT I THD < 5% AT FULL LOAD
 10. OUTPUT V THD < 5%

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Electric

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or 380/400/415VAC (3PH+N+G), 50/60Hz 3PH
OUTPUT: 220/230/240VAC (1PH+N+G), 50/60Hz 1PH
or 380/400/415VAC (3PH+N+G), 50/60Hz 3PH
SYSTEM ONE LINE DIAGRAM

PROJECT: DRAWINGS SHEET 8 OF 8

DWG NO: SURT20KRMXLI
DRAWN: C KRISHNA
ENGINEER: V. CHENNAKESAVAN

APPROVED: N. WHITING/J. PRECOPIO

REV. 0
06-FEB-13
06-FEB-13
06-FEB-13
ANGLE PROJECTION
N.A

