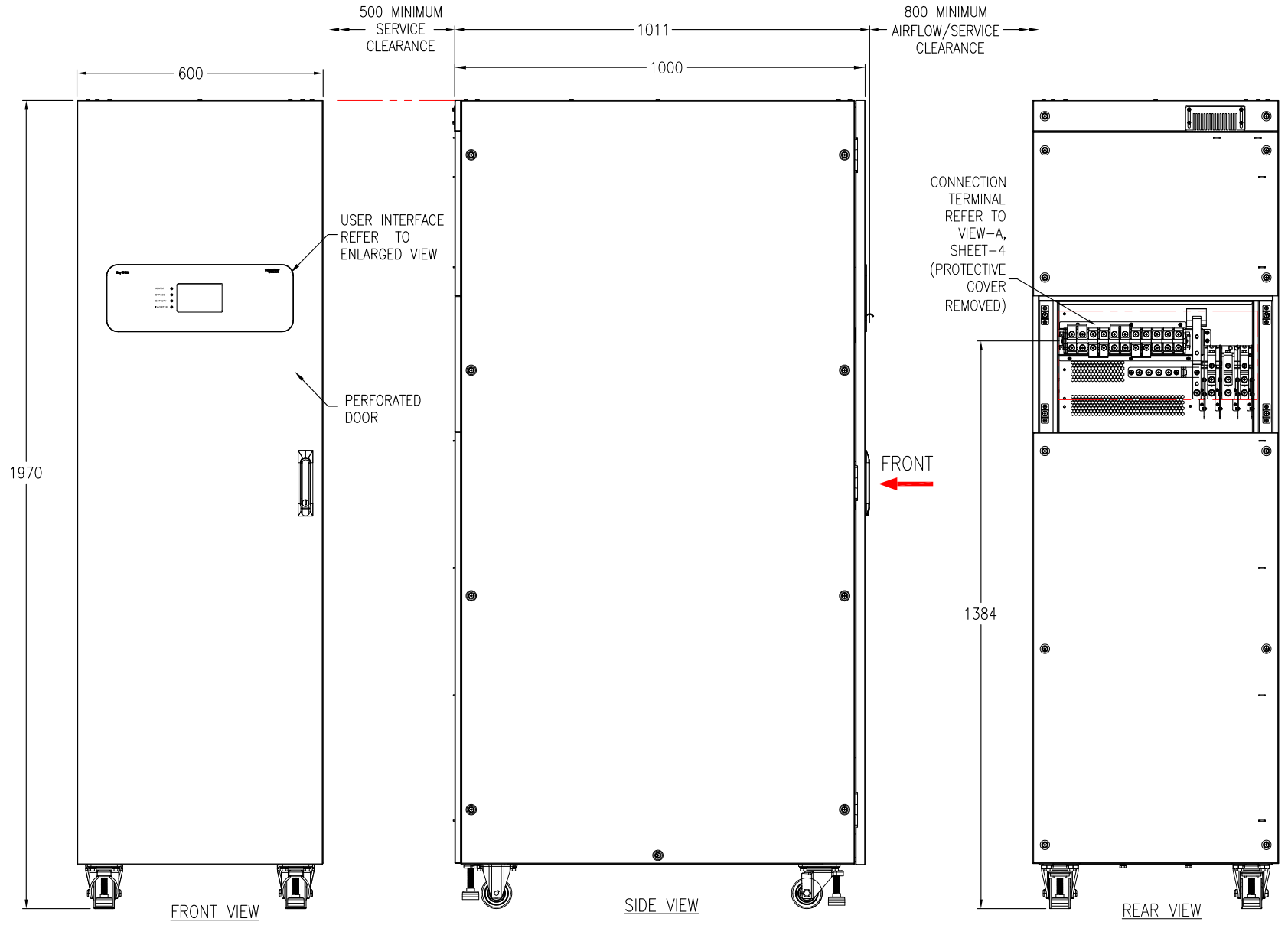
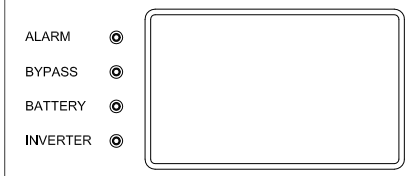




USER INTERFACE (ENLARGED VIEW)

NOTES:

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2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
4. NET WEIGHT OF THE UNIT WITHOUT BATTERIES IS: 60kW=311kg AND 80kW=339kg.
   NET WEIGHT OF 1 BATTERY CARTRIDGE IS 30kg.
5. FRONT AND REAR CLEAREANCE ARE FOR AIRFLOW AND SERVICE ACCESS.
   CONSULT WITH THE LOCAL SAFETY CODES AND STANDARDS FOR ANY ADDITIONAL REQUIREMENTS OF LOCAL AREA.
6. COLOR: RAL 9003.
7. PROTECTION CLASS: IP20.
8. OPERATING TEMPERATURE: 0°C MIN. TO 40°C MAX.

APPLICABLE SKUs & RUNTIME CHART

Sl.No.	SKU#	Runtime at PF=0.8 and 70% load in Minutes	Nunber of Battery Strings
1	E3MUPS60KHB	0	0
2	E3MUPS60KHB1	9.5	3
3	E3MUPS60KHB2	14	4
4	E3MUPS80KHB	0	0
5	E3MUPS80KHB1	9.4	4
6	E3MUPS80KHB2	15	6

1 String contains 4 Battery cartridges

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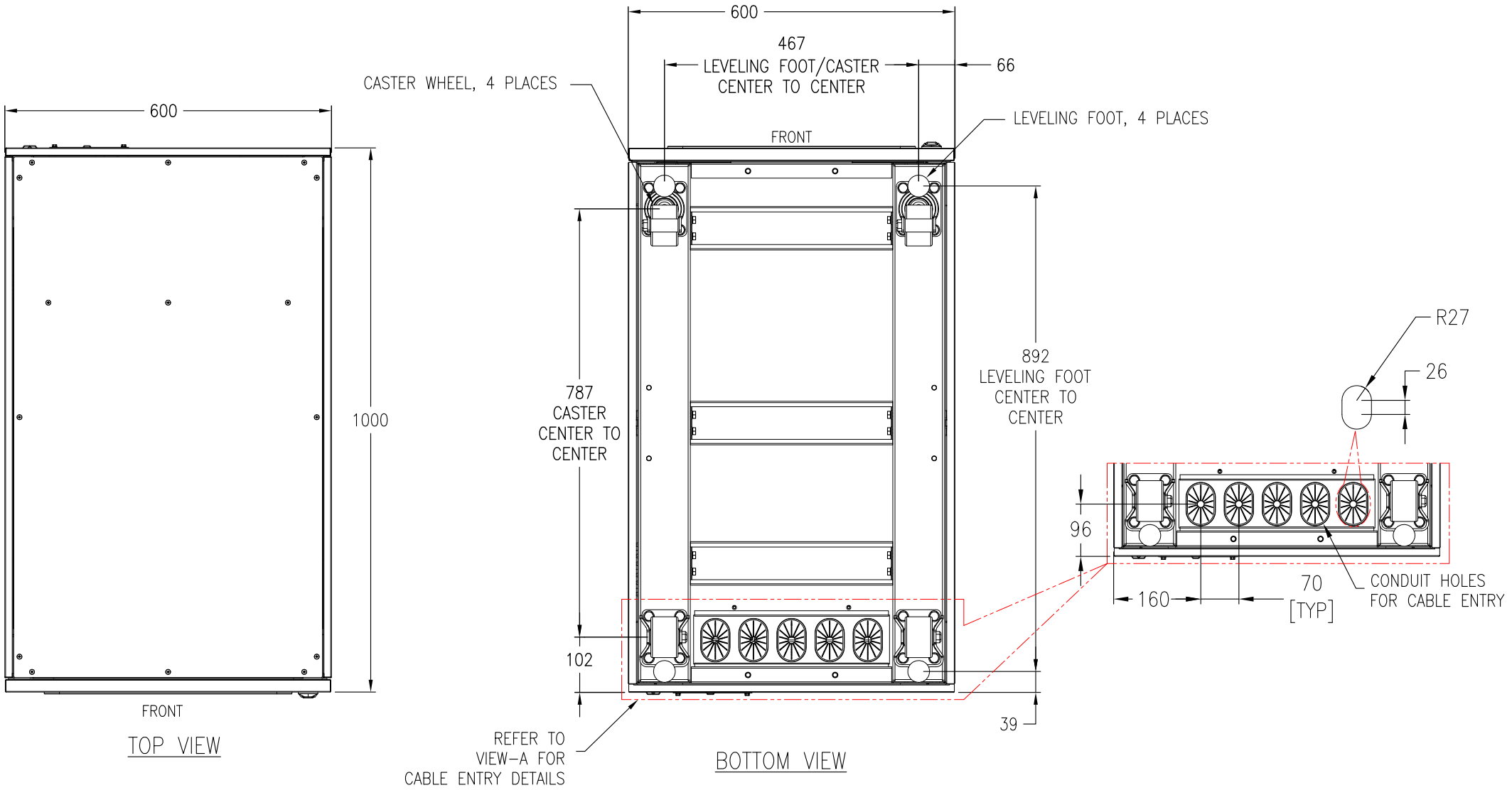
TITLE: EASY UPS 3M
60 – 80kVA, 400V, 3PH INPUT, 3PH OUTPUT
FOR/WITH INTERNAL BATTERIES
GENERAL ARRANGEMENT

DWG NO: E3MUPS60K80HB REV.

DRAWN:	JAYAPRAKASH	30-AUG-19
ENGINEER:	YANG YE	18-OCT-19
APPROVED:	ERIC ZHANG	18-OCT-19

PROJECT: SUBMITTAL DRAWINGS | SHEET 1 OF 6

FIRST ANGLE PROJECTION



NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL ELECTRICAL REGULATIONS.
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3. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

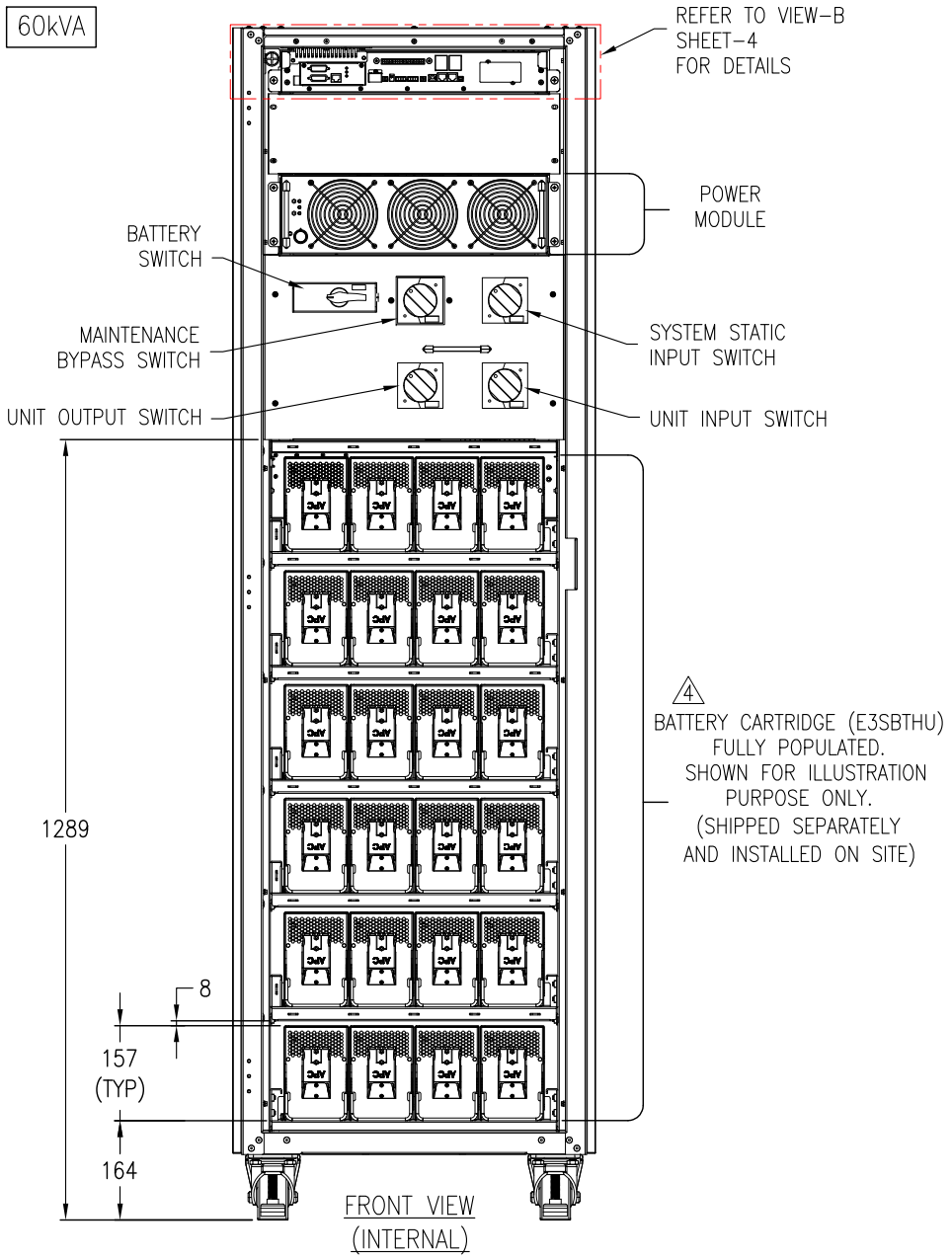
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Schneider Electric

TITLE: EASY UPS 3M 60 – 80kVA, 400V, 3PH INPUT, 3PH OUTPUT FOR/WITH INTERNAL BATTERIES TOP & BOTTOM VIEWS		DWG NO: E3MUPS60K80HB	REV.
		DRAWN: JAYAPRAKASH	30-AUG-19
		ENGINEER: YANG YE	18-OCT-19
PROJECT: SUBMITTAL DRAWINGS	SHEET 2 OF 6	APPROVED: ERIC ZHANG	18-OCT-19

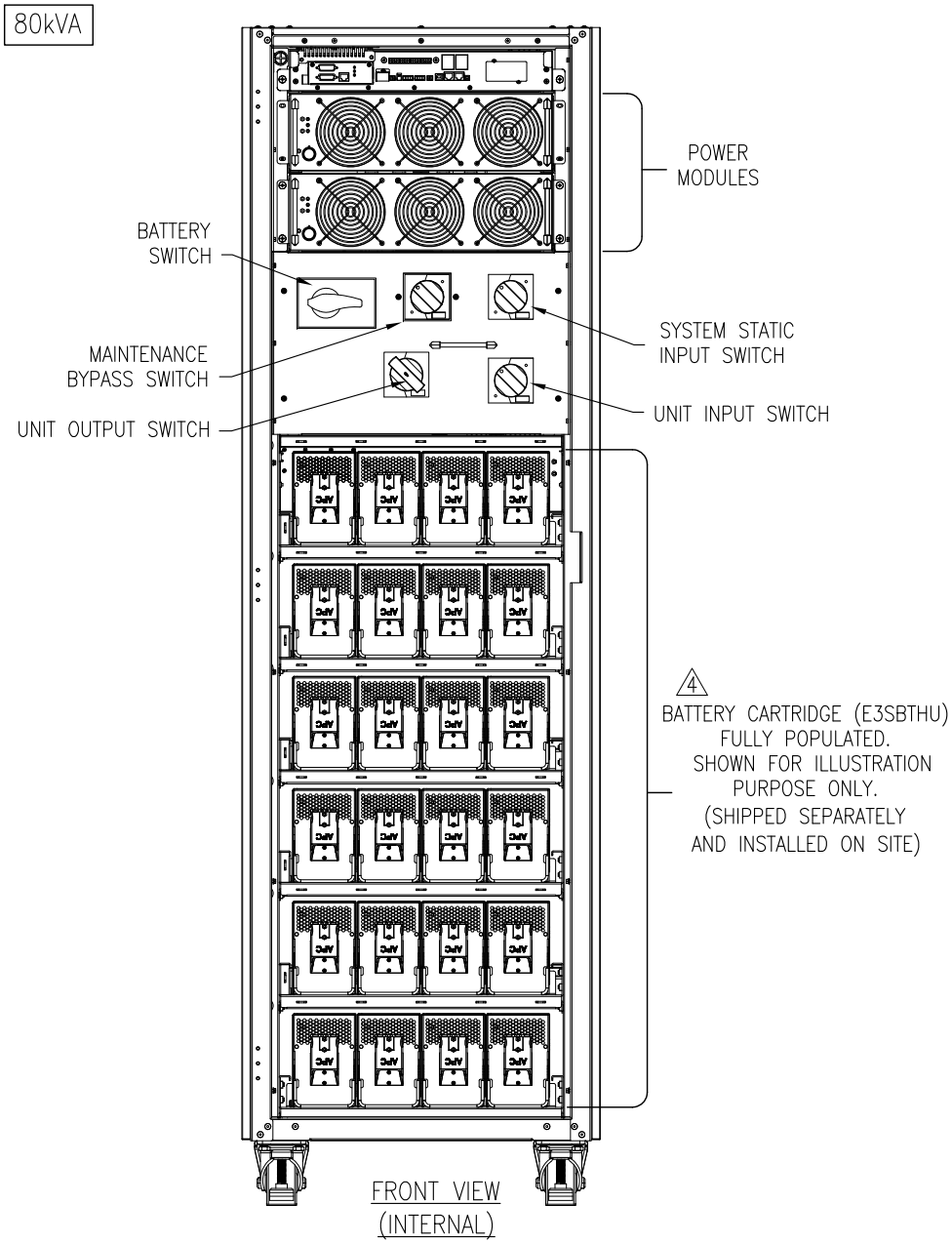
FIRST ANGLE PROJECTION

60kVA



FRONT VIEW
(INTERNAL)

80kVA



FRONT VIEW
(INTERNAL)

NOTES:

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2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
△4. BATTERY CARTRIDGE (E3SBTHU) IS NOT PART OF THIS SKU.
INSTALL BATTERIES OF ONE STRING AT A TIME AND FROM BOTTOM TO TOP. ONE ROW IS A STRING.

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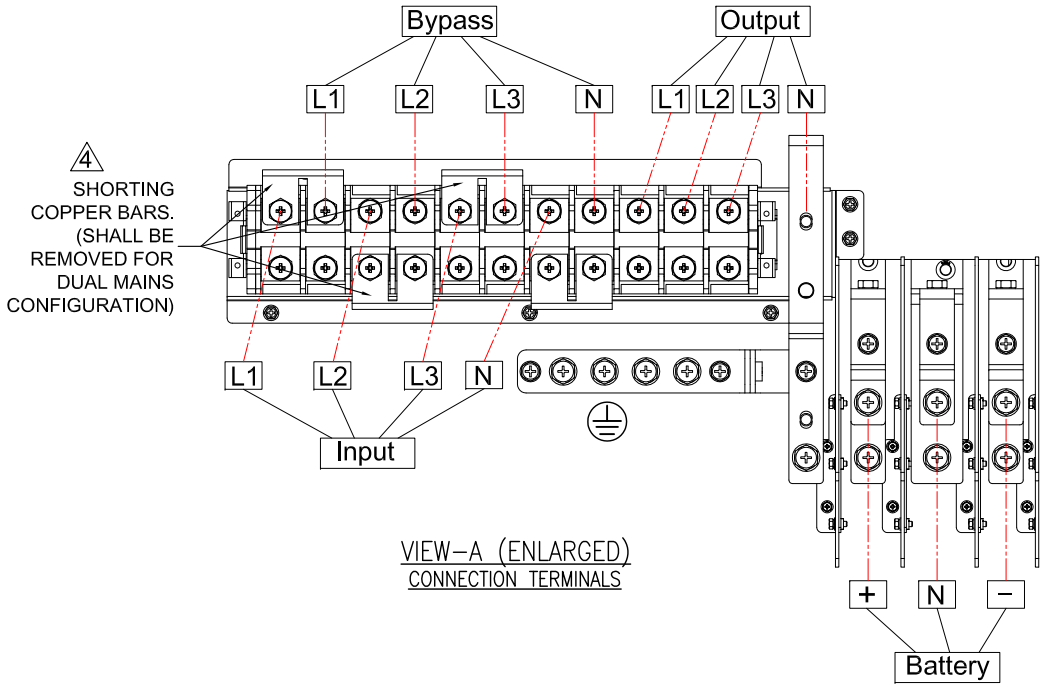
TITLE:
EASY UPS 3M
60 – 80kVA, 400V, 3PH INPUT, 3PH OUTPUT
FOR/WITH INTERNAL BATTERIES
INTERNAL VIEWS (FRONT)

PROJECT: SUBMITTAL DRAWINGS | SHEET 3 OF 6

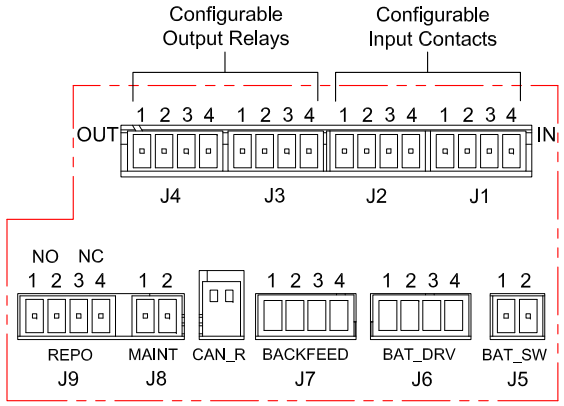
DWG NO: E3MUPS60K80HB | REV.

DRAWN:	JAYAPRAKASH	30-AUG-19
ENGINEER:	YANG YE	18-OCT-19
APPROVED:	ERIC ZHANG	18-OCT-19

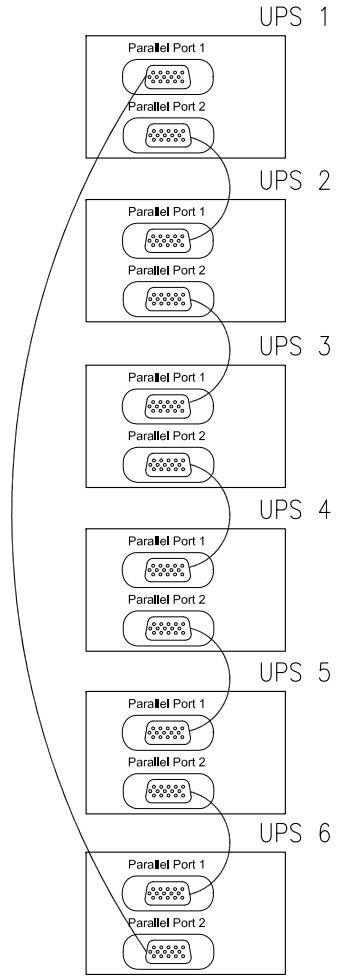
FIRST ANGLE PROJECTION



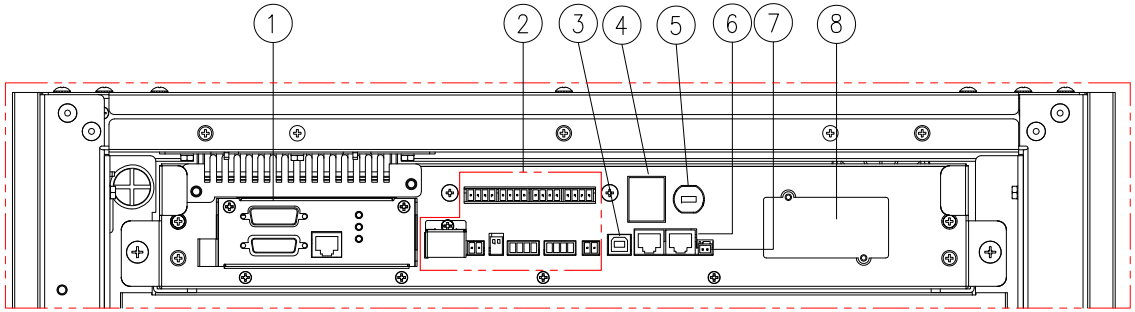
VIEW–A (ENLARGED)
CONNECTION TERMINALS



VIEW–C (ENLARGED)
INPUT CONTACTS AND OUTPUT RELAYS



PARALLEL CONNECTION



VIEW–B (ENLARGED)

① PARALLEL PORT
② INPUT CONTACTS AND OUTPUT RELAYS REFER TO VIEW–C FOR DETAILS
③ USB PORT (for service)
④ EPO
⑤ SLOT FOR BATTERY COLD START BUTTON (OPTIONAL)
⑥ RS485
⑦ BATTERY TEMP. SENSOR TERMINAL
⑧ SLOT FOR SNMP (OPTIONAL)

VERIFY THE SETTINGS OF CAN_R
- FOR PARALLEL SYSTEMS WITH LESS THAN 4 PARALLEL UPSs, CAN_R OF ALL UPSs MUST BE IN ON POSITION.
- FOR PARALLEL SYSTEMS WITH MORE THAN 5 PARALLEL UPSs, CAN_R OF ALL UPSs MUST BE IN OFF POSITION.

NOTES:
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL 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 UNLESS OTHERWISE SPECIFIED.
△4. FOR DUAL MAINS CONFIGURATION REMOVE THE SHORTING CABLE.
5. UP TO 6 NUMBERS OF UPS CAN BE CONNECTED IN PARALLEL. MAXIMUM COMMUNICATION CABLE LENGTH IS 5 Meters.

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Schneider Electric

TITLE: EASY UPS 3M 60 – 80kVA, 400V, 3PH INPUT, 3PH OUTPUT FOR/WITH INTERNAL BATTERIES DETAILS/ENLARGED VIEWS

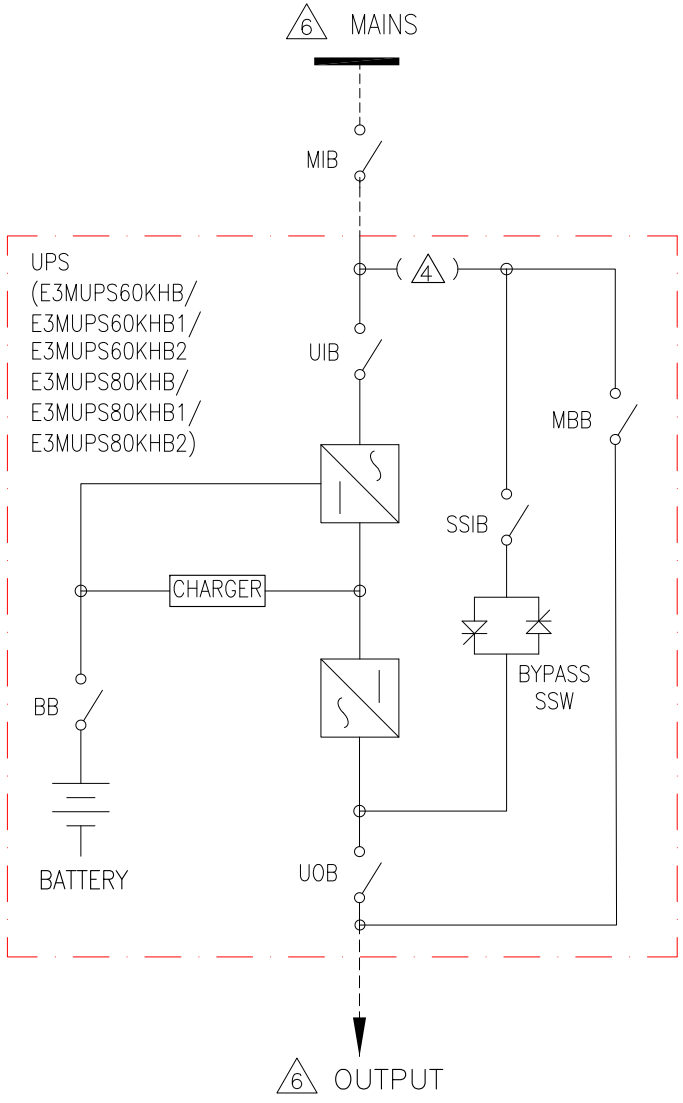
DWG NO: E3MUPS60K80HB REV.

DRAWN:	JAYAPRAKASH	30–AUG–19
ENGINEER:	YANG YE	18–OCT–19
APPROVED:	ERIC ZHANG	18–OCT–19

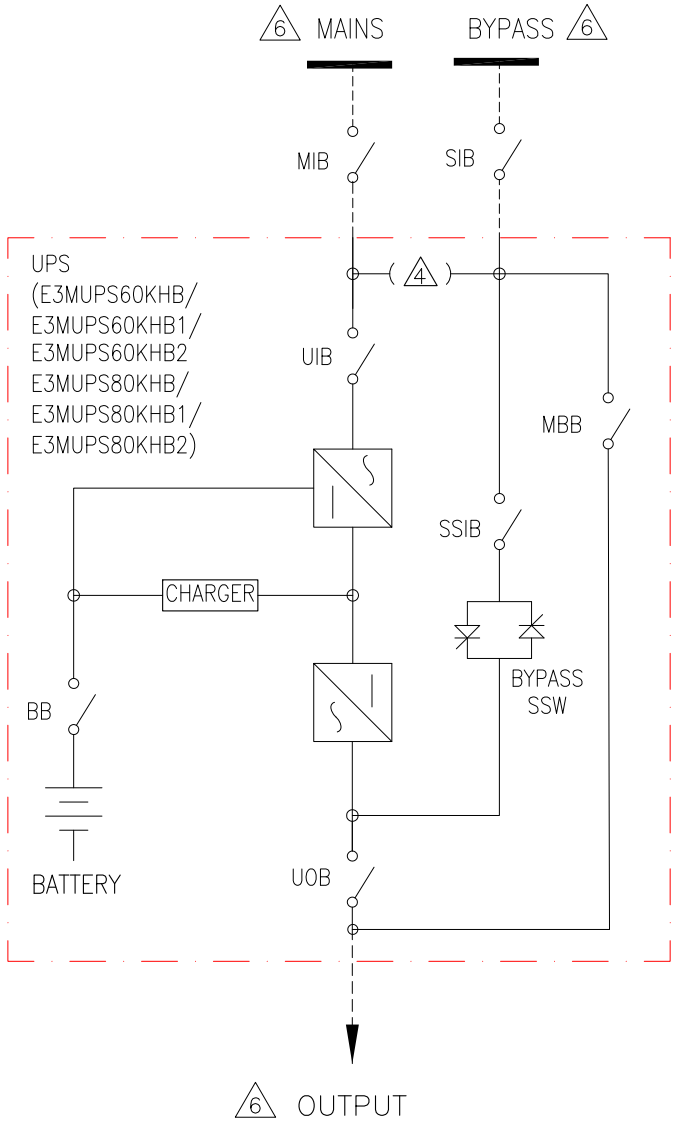
PROJECT: SUBMITTAL DRAWINGS | SHEET 4 OF 6

FIRST ANGLE PROJECTION

SINGLE MAINS CONFIGURATION



DUAL MAINS CONFIGURATION



LEGEND:

--------- CABLE PROVIDED BY OTHERS

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL ELECTRICAL REGULATIONS.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK
3. DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND NOT IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT.
△4. SINGLE MAINS CONFIGURATION IS DEFAULT.
FOR DUAL MAINS CONFIGURATION REMOVE THE 3 SHORTING COPPER BARS.
5. UP TO 6 UPS CAN BE CONNECTED IN PARALLEL.
△6. REFER TO SHEET-6 FOR ELECTRICAL DATA.
7. CABLE LUGS ARE PROVIDED BY OTHERS.

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Schneider Electric

TITLE: EASY UPS 3M
60 - 80kVA, 400V, 3PH INPUT, 3PH OUTPUT
FOR/WITH INTERNAL BATTERIES
SYSTEM ONELINE DIAGRAM

PROJECT: SUBMITTAL DRAWINGS | SHEET 5 OF 6

DWG NO: E3MUPS60K80HB | REV.

DRAWN:	JAYAPRAKASH	30-AUG-19
ENGINEER:	YANG YE	18-OCT-19
APPROVED:	ERIC ZHANG	18-OCT-19

FIRST ANGLE PROJECTION

ELECTRICAL DATA SHEET		
UPS RATING	60kVA	80kVA
INPUT SPECIFICATIONS		
INPUT WIRING	3W+N+PE	
INPUT VOLTAGE (V)	380/400/415	
NOMINAL INPUT CURRENT (A)	96/91/88	128/122/117
MAXIMUM INPUT CURRENT (A)	109/104/100	154/146/141
INPUT CURRENT LIMITATION (A)	155	206
INPUT FREQUENCY (Hz)	40 - 70	
INPUT POWER FACTOR	>0.99	>0.99
MAXIMUM SHORT CIRCUIT RATING	10kA RMS	
PROTECTION	FUSE	
RAMP-IN (SECONDS)	7	
TOTAL HARMONIC DISTORTION (THDI)	< 3% FOR LINEAR LOADS	
BYPASS SPECIFICATIONS		
BYPASS WIRING	3W+N+PE	
BYPASS VOLTAGE (V)	380/400/415	
OVERLOAD CAPACITY	110% FOR 60 MINUTES	
	130% FOR 10 MINUTES	
	130-150% FOR 1 MINUTE	
	266/280/291	
MAXIMUM BYPASS VOLTAGE (V)	475/480/477	
NOMINAL BYPASS CURRENT (A)	91/87/83	122/115/111
BYPASS FREQUENCY (Hz)	50/60	
MAXIMUM SHORTCIRCUIT RATING	10kA RMS	
OUTPUT SPECIFICATIONS		
OUTPUT WIRING	3W+N+PE	
OUTPUT VOLTAGE (V)	380/400/415	
OVERLOAD CAPACITY AT 30°C	110% FOR 60 MINUTES	
	125% FOR 10 MINUTES	
	150% FOR 1 MINUTE	
NOMINAL OUTPUT CURRENT (A)	91/87/83	122/115/111
OUTPUT FREQUENCY (Hz)	50/60	
OUTPUT POWER FACTOR	1	
TOTAL HARMONIC DISTORTION (THDU)	<3%@ 100% LINEAR LOAD, < 5%@ 100% NON-LINEAR LOAD	
DYNAMIC LOAD RESPONSE (milliseconds)	20	
BATTERY SPECIFICATIONS		
CHARGING POWER IN % OF OUTPUT POWER	1-16%	1-24%
MAXIMUM CHARGING POWER (W)	9600	19200
NOMINAL BATTERY VOLTAGE (40 Blocks) (VDC)	±240	
NOMINAL FLOAT VOLTAGE (40 Blocks) (VDC)	±270	
END OF DISCHARGE VOLTAGE (40 Blocks) (VDC)	±192	
BATTERY CURRENT AT FULL LOAD AND NOMINAL BATTERY VOLTAGE (A)	133	176
BATTERY CURRENT AT FULL LOAD AND MINIMUM BATTERY VOLTAGE (A)	166	222
TEMPERATURE COMPENSATION (PER CELL)	PROGRAMMABLE FROM 0-7mV. DEFAULT IS 0mV	
RIPPLE CURRENT	<5% C10	

RECOMMENDED CABLE SIZES 60kVA UPS			
	CABLE SIZE PER PHASE (mm^2)	NEUTRAL CABLE SIZE* (mm^2)	PE CABLE SIZE (mm^2)
INPUT	35	2X25	16
BYPASS	25	2X25	16
OUTPUT	25	2X25	16
BATTERY	50	50	25

RECOMMENDED CABLE SIZES 80kVA UPS			
	CABLE SIZE PER PHASE (mm^2)	NEUTRAL CABLE SIZE* (mm^2)	PE CABLE SIZE (mm^2)
INPUT	50	2X50	25
BYPASS	50	2X50	25
OUTPUT	50	2X50	25
BATTERY	2x50	2X50	50

* NEUTRAL CONDUCTOR IS SIZED TO HANDLE 1.73 TIMES PHASE CURRENT IN CASE OF HIGH HARMONIC CONTENT FROM NON-LINEAR LOADS. IF NON OR LESS HORMONIC CURRENT ARE EXPECTED, NEUTRAL CONDUCTOR CAN BE SIZED ACCORDINGLY BUT NOT LESS THAN THE PHASE CONDUCTOR.

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Schneider Electric

TITLE: EASY UPS 3M
60 – 80kVA, 400V, 3PH INPUT, 3PH OUTPUT
FOR/WITH INTERNAL BATTERIES
ELECTRICAL DATA SHEET

DWG NO: E3MUPS60K80HB REV.

DRAWN:	JAYAPRAKASH	30-AUG-19
ENGINEER:	YANG YE	18-OCT-19
APPROVED:	ERIC ZHANG	18-OCT-19

PROJECT: SUBMITTAL DRAWINGS | SHEET 6 OF 6

FIRST ANGLE PROJECTION