



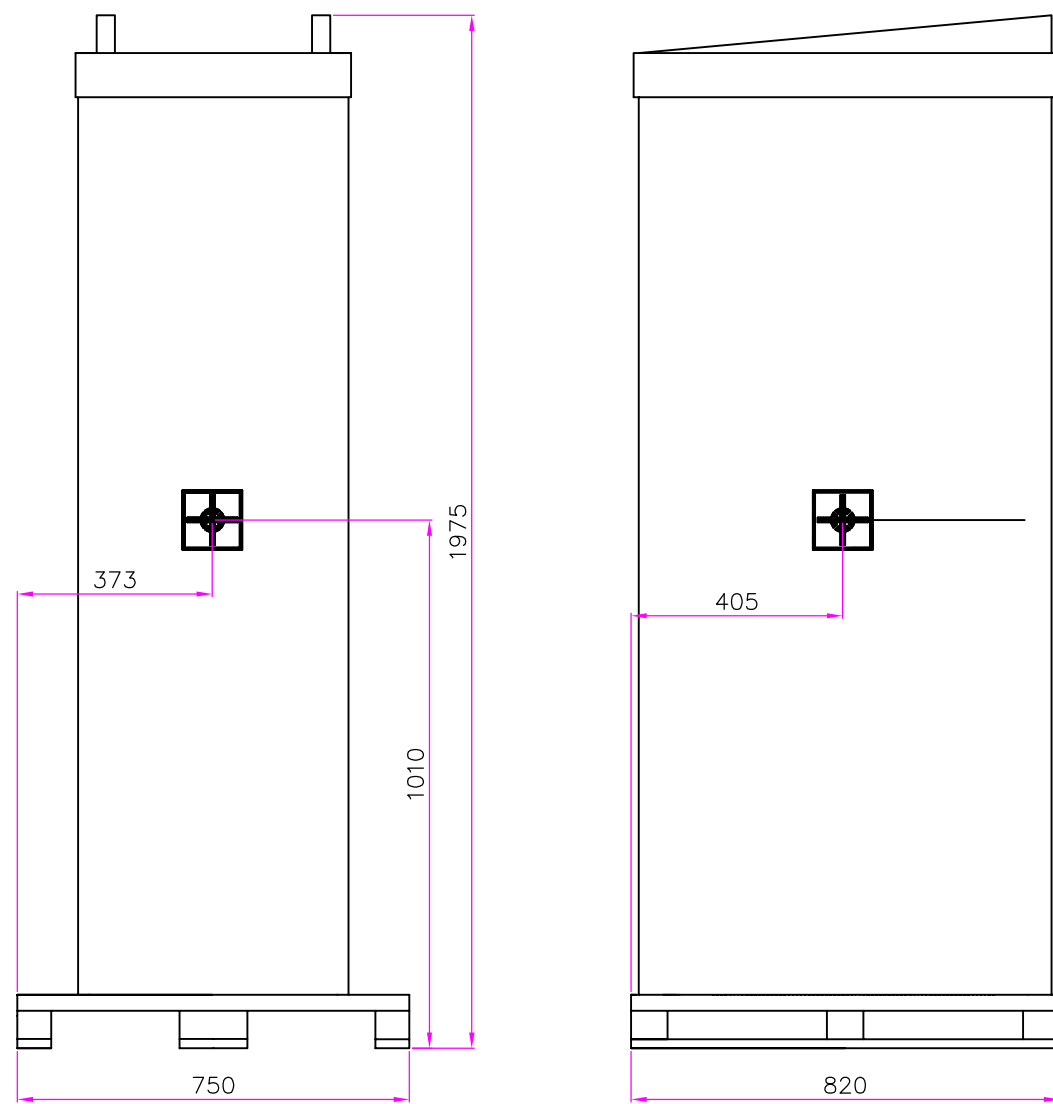
Powering Business Worldwide

SITE PLANNING DATA 93PS 30-40KW

Page 1	Packaging Dimensions
Page 2	Dimensional Drawings
Page 3	COG and Clearance Dimensions
Page 4	Customer Connections
Page 5	Electrical Wiring of Single Unit
Page 6	Electrical & Signal Wiring of Parallel Units
Page 7	Product Specifications



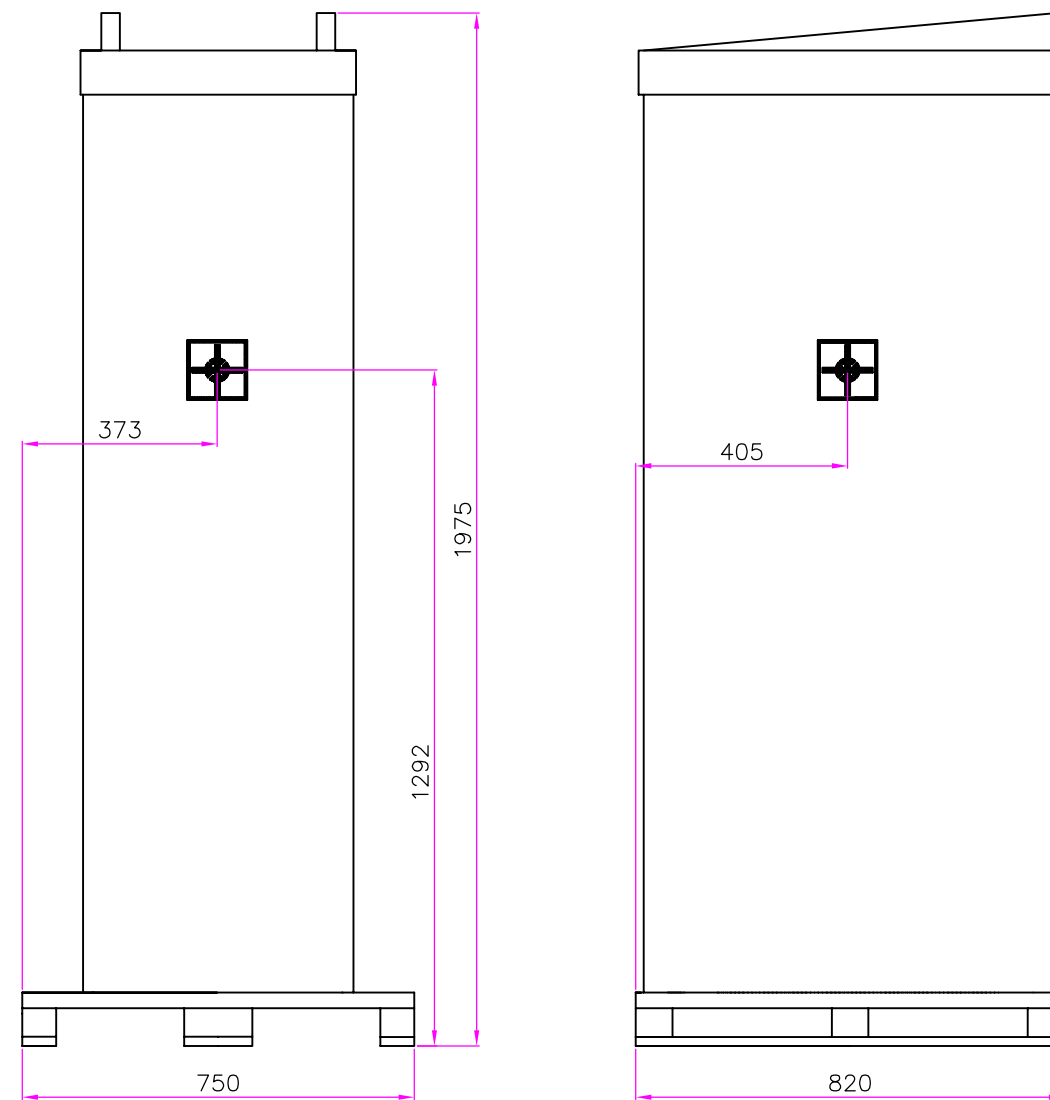
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DESCRIPTION: 93PS 30-40KW							
ORIGINATED: ATIF RASHEED	1-07-2015	ECO:	NAME:	REVISION: 001	SIZE: A2		
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FRONT VIEW

SIDE VIEW

COG Dimensions with Internal Batteries



FRONT VIEW

SIDE VIEW

COG Dimensions without Internal Batteries

Notes:

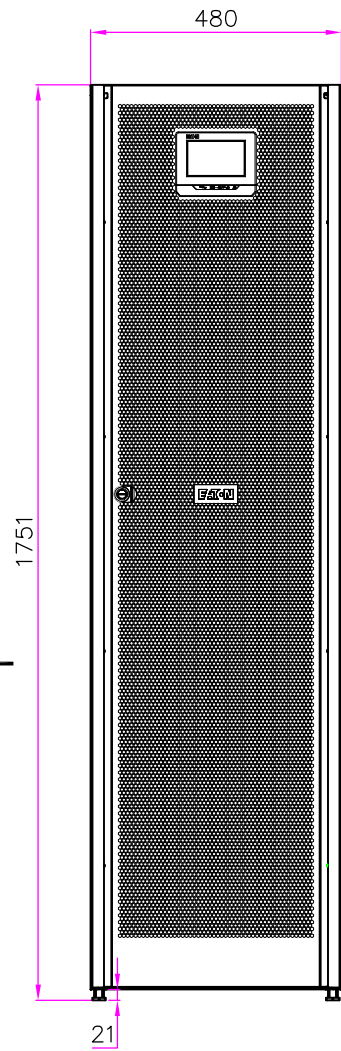
1. The COG dimensions are approximated values with Pallet and packaging including Batteries and without Batteries.
2. The COG dimensions of UPS cabinet with package are X=373mm, Y=405mm, Z=1010mm including Batteries and X=373mm, Y=405mm, Z=1292mm without Batteries.
3. Store the unit in dry and clean environment. Protect the unit from high humidity, rain or other direct exposure to water and also protect it from exposure to dirt and dust.
4. Optimal storing temperature for the unit without batteries is +15°C to +30°C and for batteries +20°C to +25°C.
5. Unites without batteries can be stored in -25°C to +55°C without risk of remediate damaging.
6. Storing batteries above +25°C will shorten the battery lifetime.
7. Batteries can be stored for six months without charging in temperature +20°C to +25°C, but batteries should not be stored uninstalled more than absolute necessary.
8. If batteries are stored above +25°C then batteries should be charged every four months.
9. Storing batteries longer than recommended without charging can harm the battery permanently.

Product Specifications

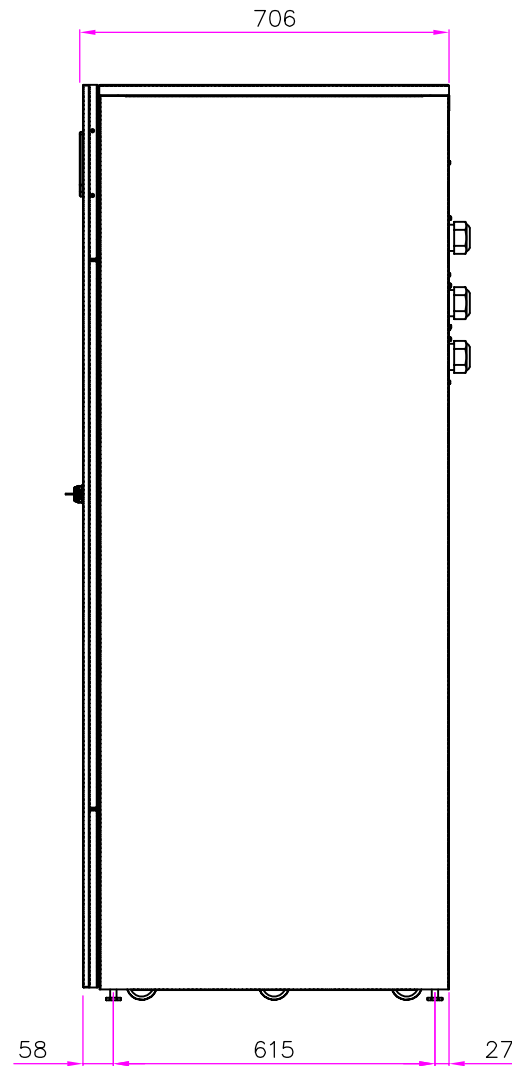
UPS Rating		Shipping Dimensions WXDXH	Approx. Weight Shipping with Batteries	Approx. Weight Shipping without Batteries
KVA	KW	MM	Kg	Kg
30	30	750X820X1975	558	242
40	40	750X820X1975	558	242

METRIC		EATON CORPORATION			
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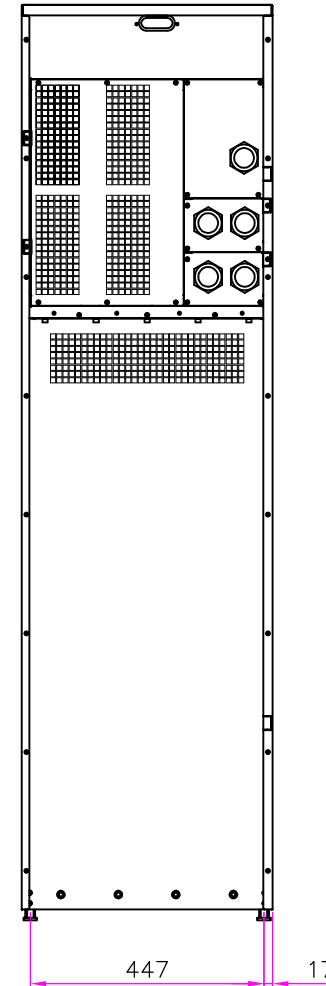
Product Specifications										
UPS Rating		Max Heat Dissipation at 100% Load	Cabinet Dimensions WXD _X H	Shipping Dimensions WXD _X H	Approx. Weight Cabinet with Batteries	Approx. Weight Cabinet without Batteries	Approx. Weight Shipping with batteries	Approx. Weight Shipping without Batteries	Floor Landing	Cooling Air
KVA	KW	KW	MM	MM	Kg	Kg	Kg	Kg	Kg/m ²	m ³ /H
30	30	1.3	480X750X1750	750X820X1975	532	216	558	242	1478	6
40	40	1.7	480X750X1750	750X820X1975	532	216	558	242	1478	6



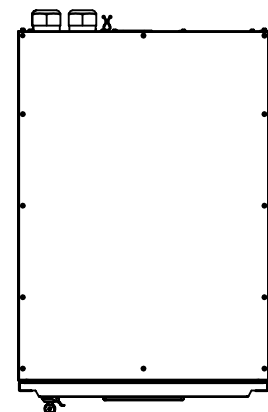
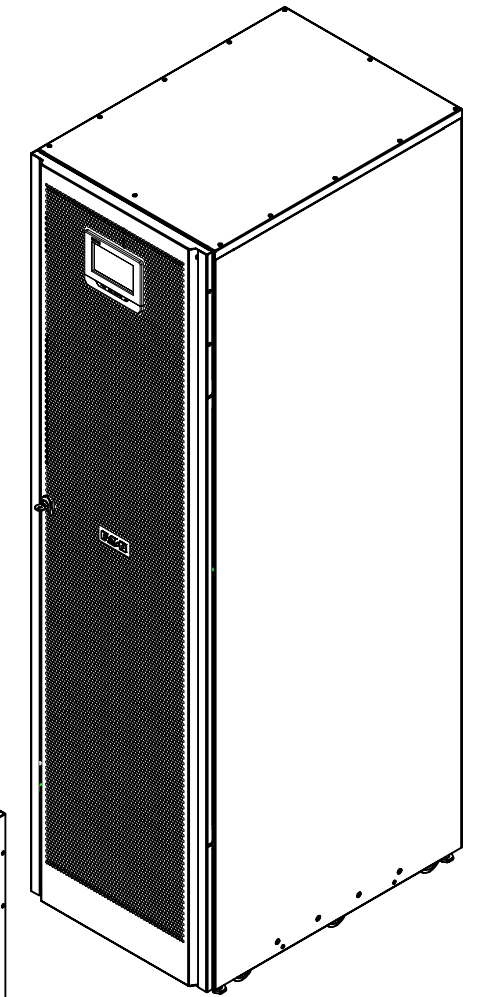
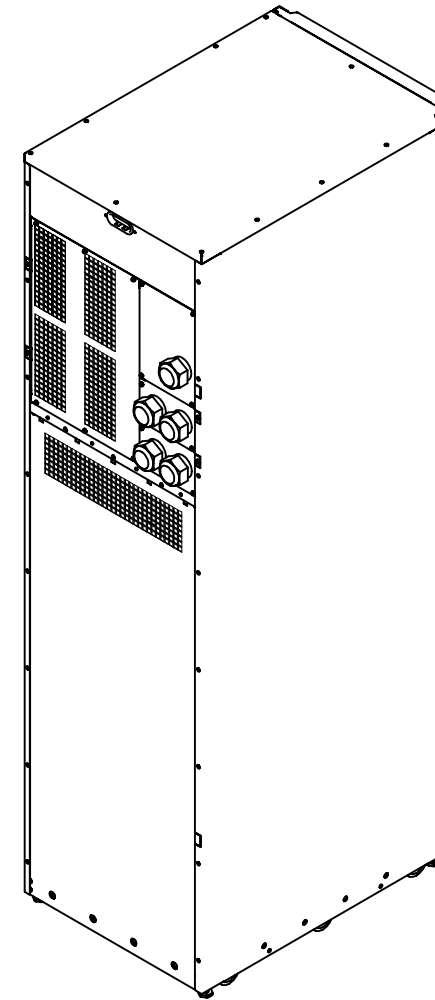
FRONT VIEW



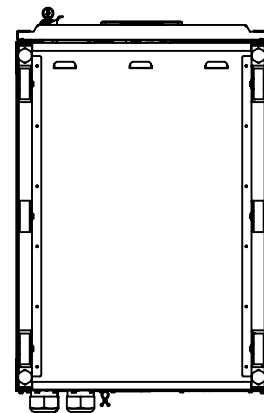
SIDE VIEW



REAR VIEW



TOP VIEW

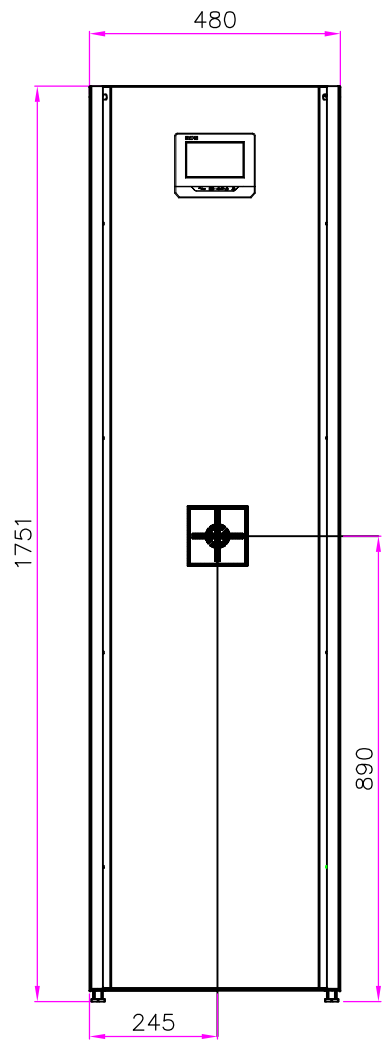


BOTTOM VIEW

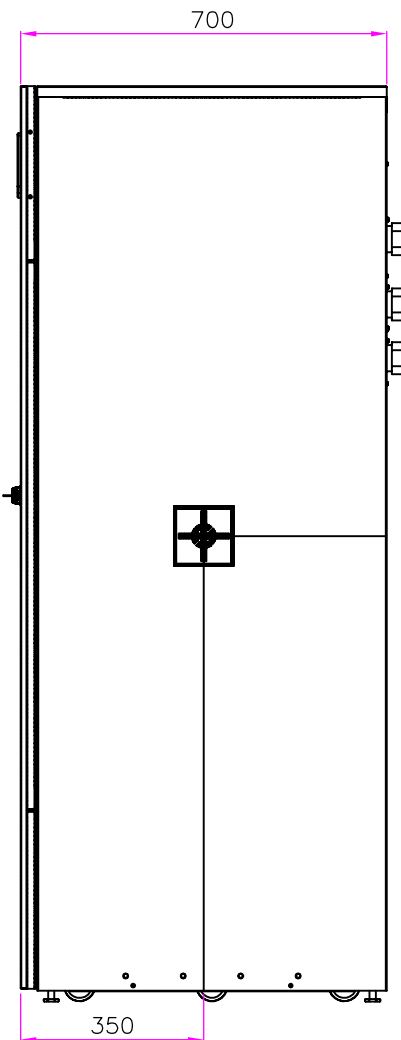
Notes:

1. The system must be installed in a temperature and humidity controlled indoor area free of conductive contaminants.
2. Continues ambient temperature range: 0–40°C (32–104F); Maximum relative humidity: 95% non-condensing.
3. The UPS can be installed in line-up-and-match or standalone configurations.
4. The rear cable entries through the removable access gland plate are standard for all configurations. Access plates shall be custom-modified to suit conduit sizes.

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ORIGINATED: Atif Rashid	1-07-2015	ECO:	NAME:	REVISION: 001	SIZE: A2
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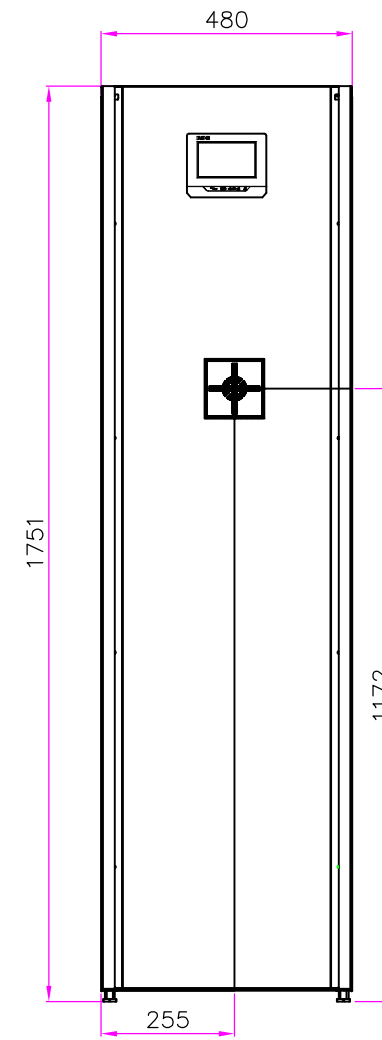


FRONT VIEW

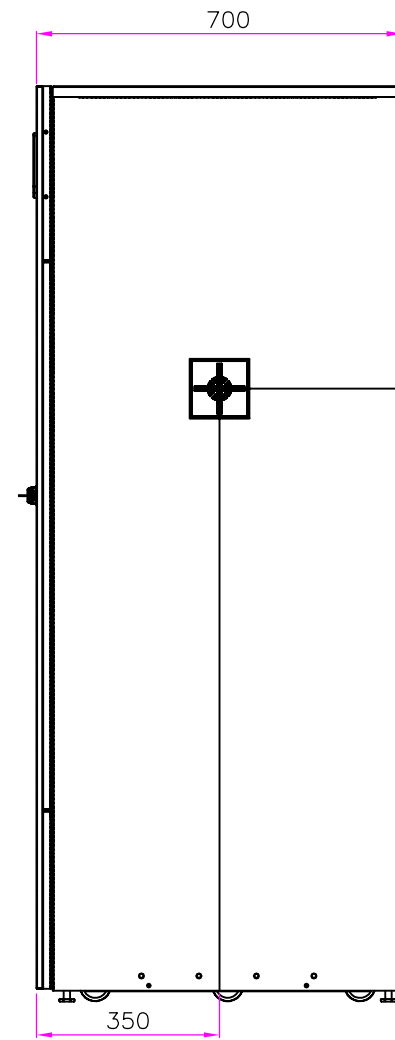


SIDE VIEW

COG Dimensions with Internal Batteries

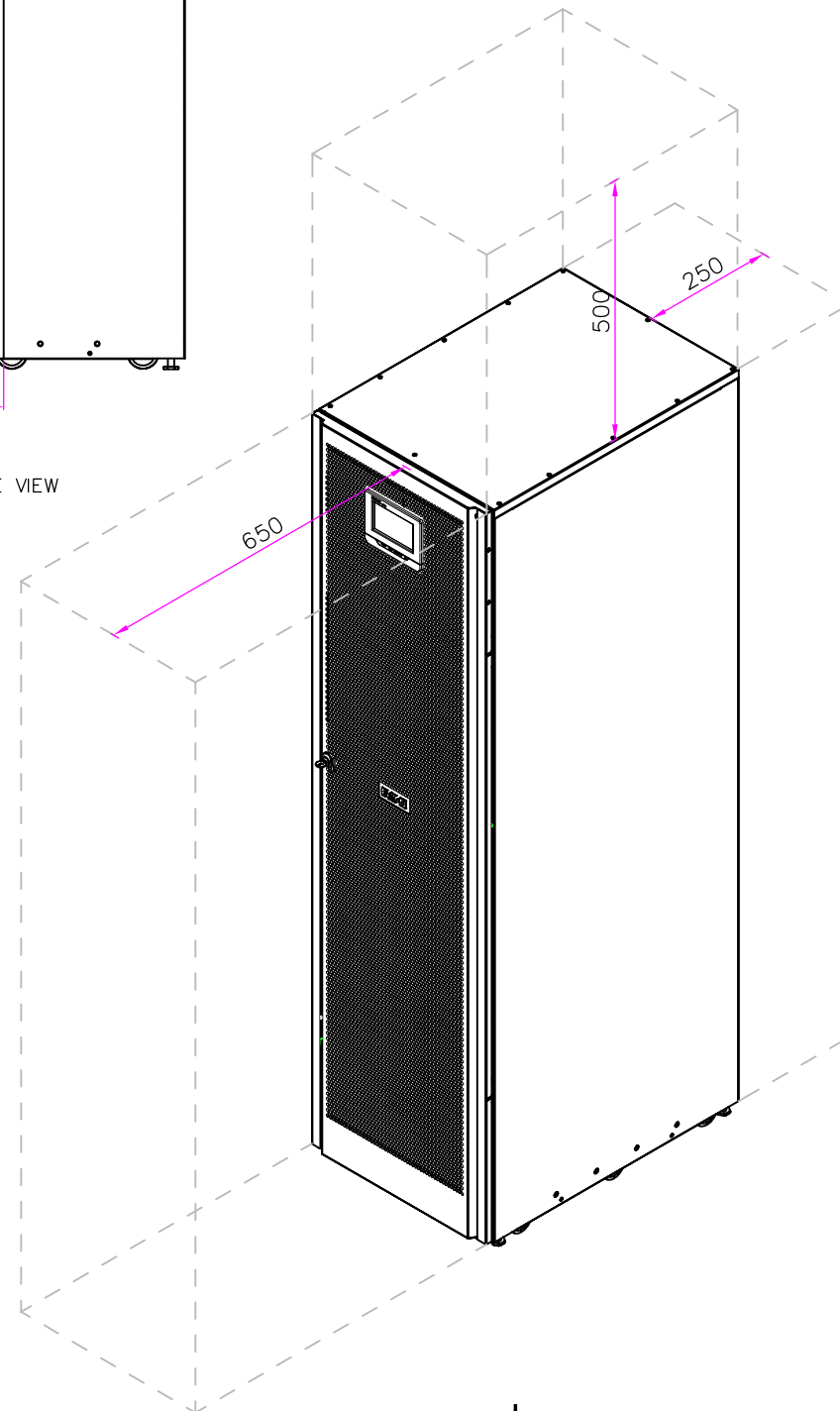


FRONT VIEW



SIDE VIEW

COG Dimensions without Internal Batteries

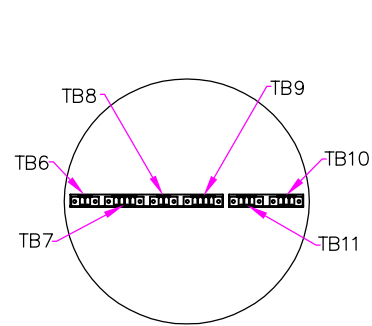


- Notes:
1. The COG dimensions for UPS cabinet are approximated including Batteries and without Batteries.
 2. The COG dimensions of UPS cabinet without package are X=245mm , Y=350mm, Z=890mm including Batteries and X=255mm , Y=350mm, Z=1172mm without Batteries.
 3. Minimum overhead clearance above the UPS cabinet is 500mm (20in.) for servicing space.
 4. Minimum 650mm (26in.) clearance in front of the UPS cabinet is required for cooling air intake and servicing space.
 5. Minimum 250mm (10in.) clearance in back of the UPS cabinet is required for cooling air and servicing space.

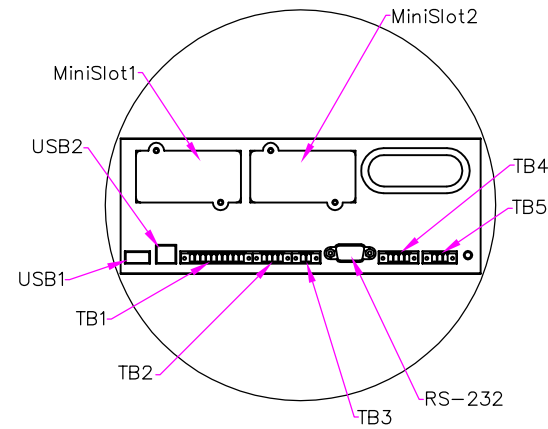
Clearances	
From Top of cabinet	500 mm
From Front of cabinet	650 mm
From Back of cabinet	250 mm

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DESCRIPTION: 93PS 30-40KW Clearance and COG					
ORIGINATED: Atif Rashid	1-07-2015	ECO:	NAME:	REVISION: 001	SIZE: A2
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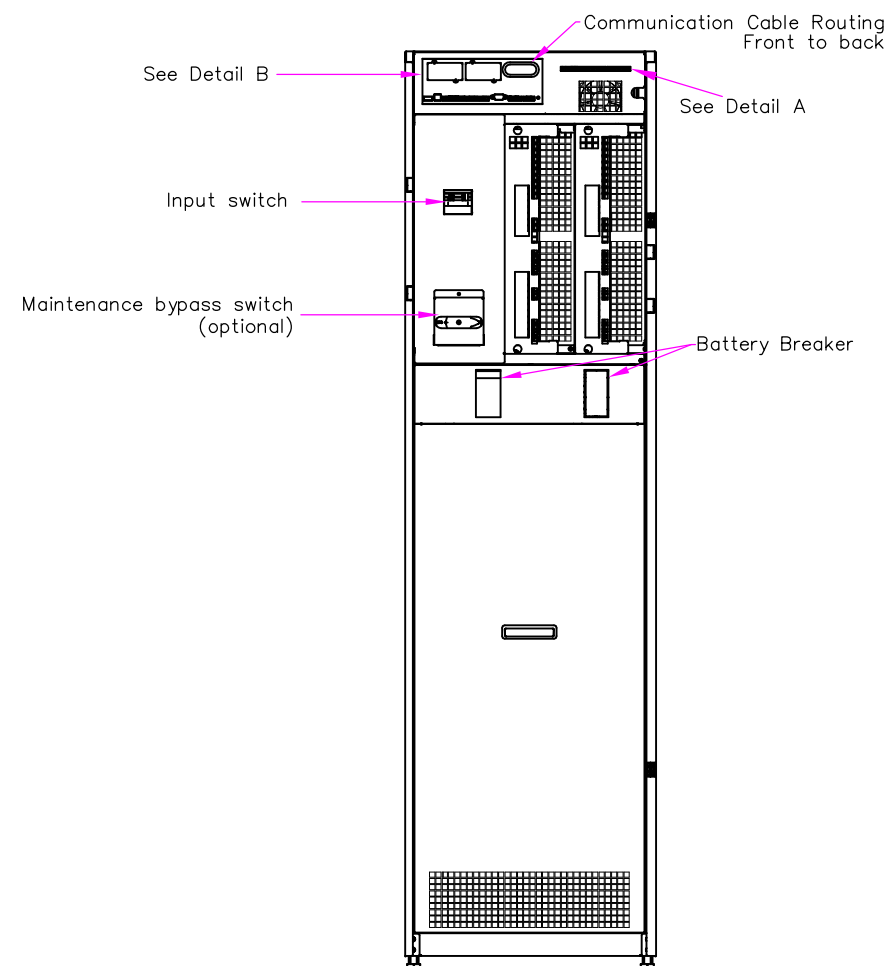
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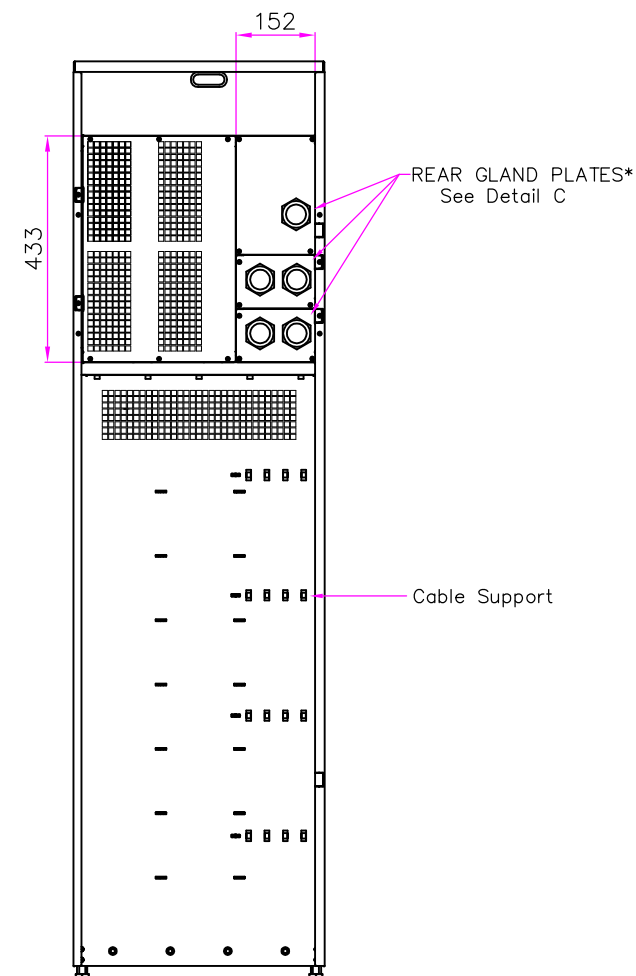
SCALE 3:1
DETAIL VIEW A



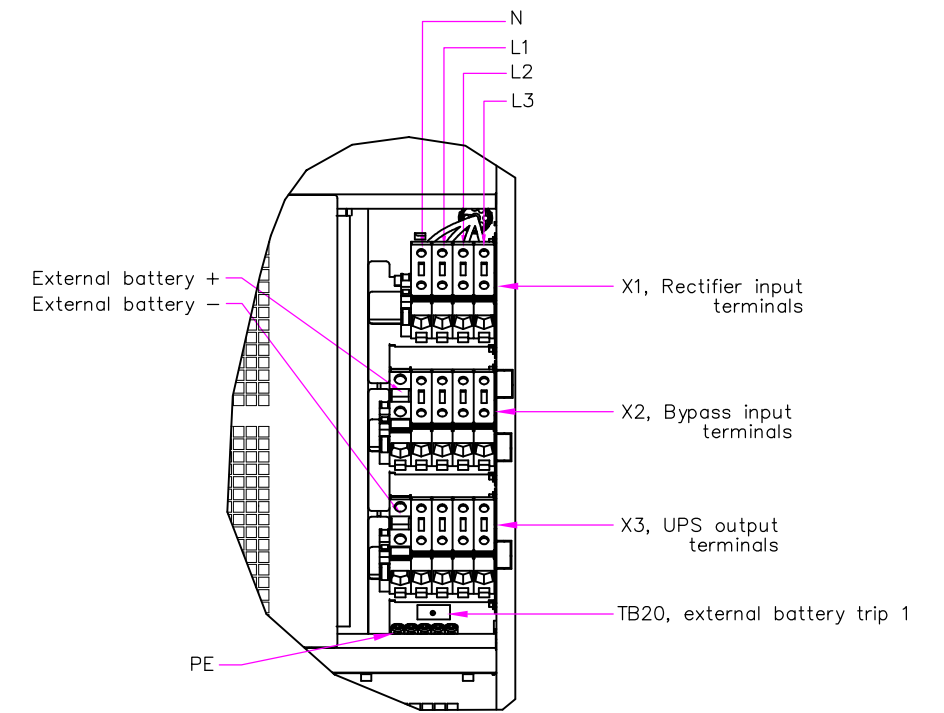
SCALE 3:1
DETAIL VIEW B



CONNECTIONS WITH FRONT PANEL REMOVED



REAR CONNECTIONS

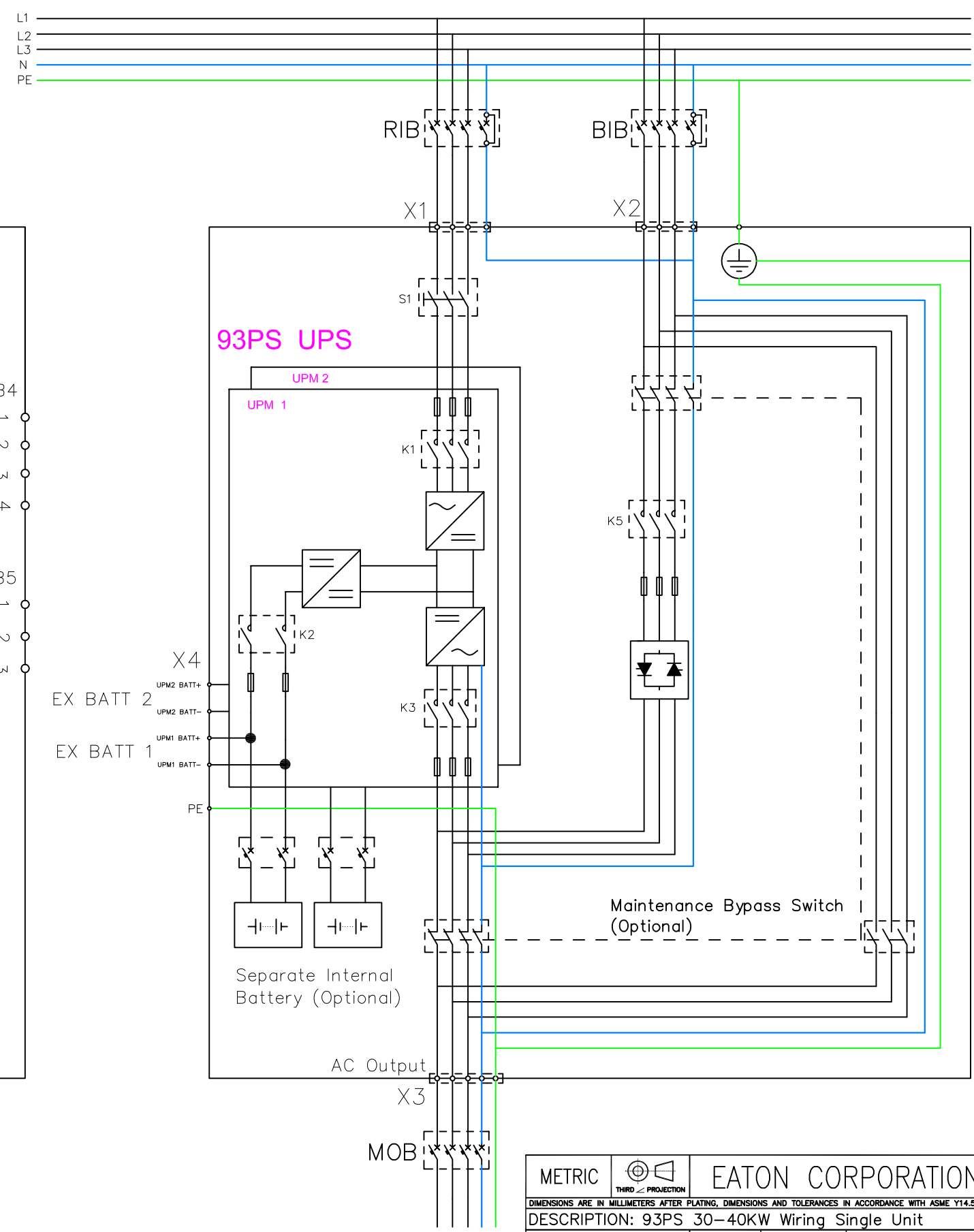
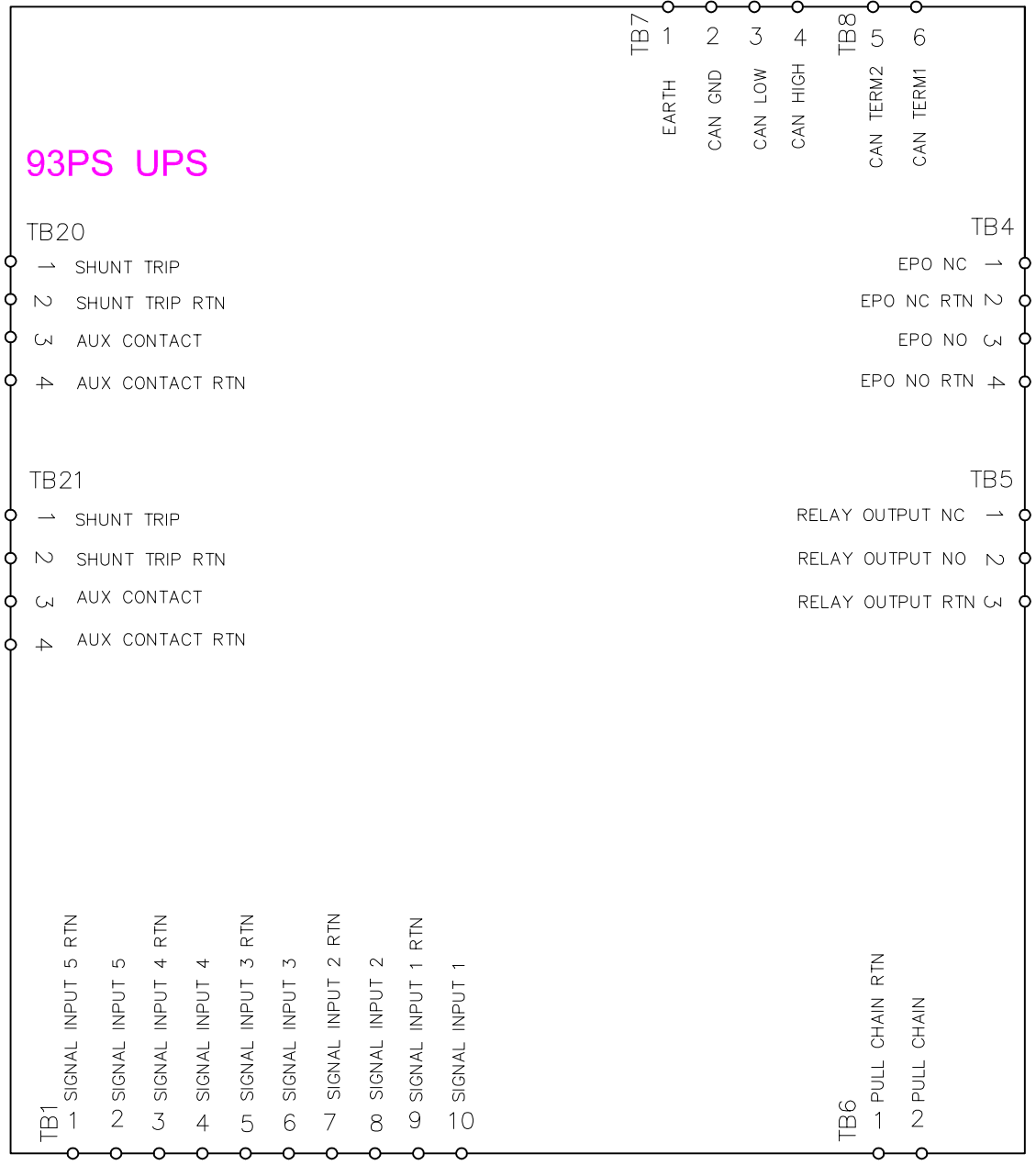


SCALE 5:1
DETAIL VIEW C

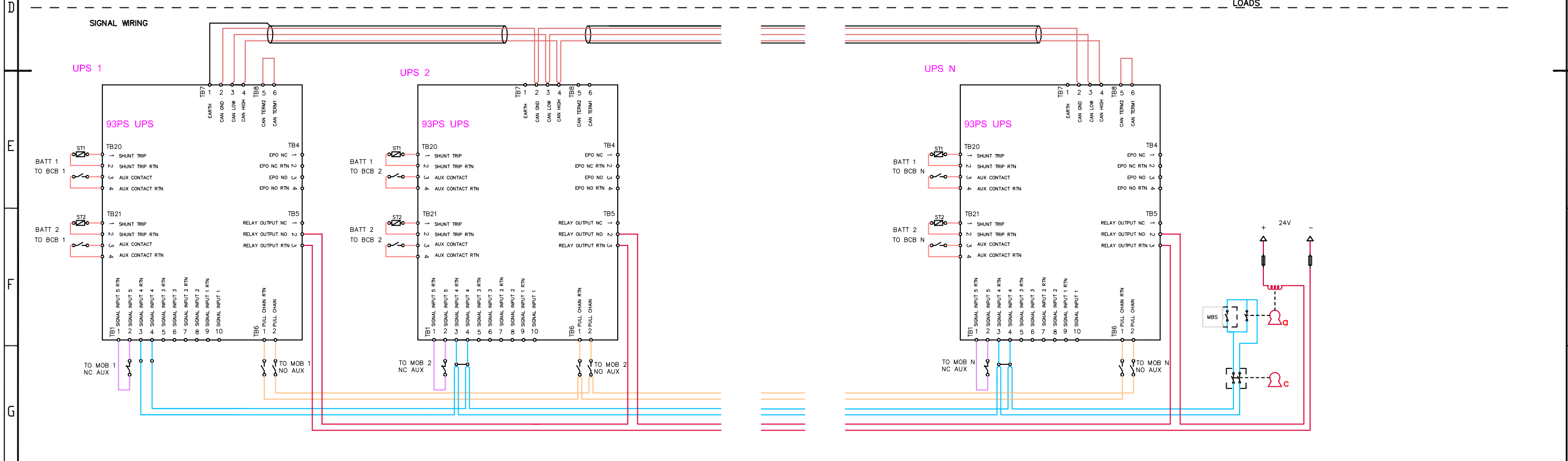
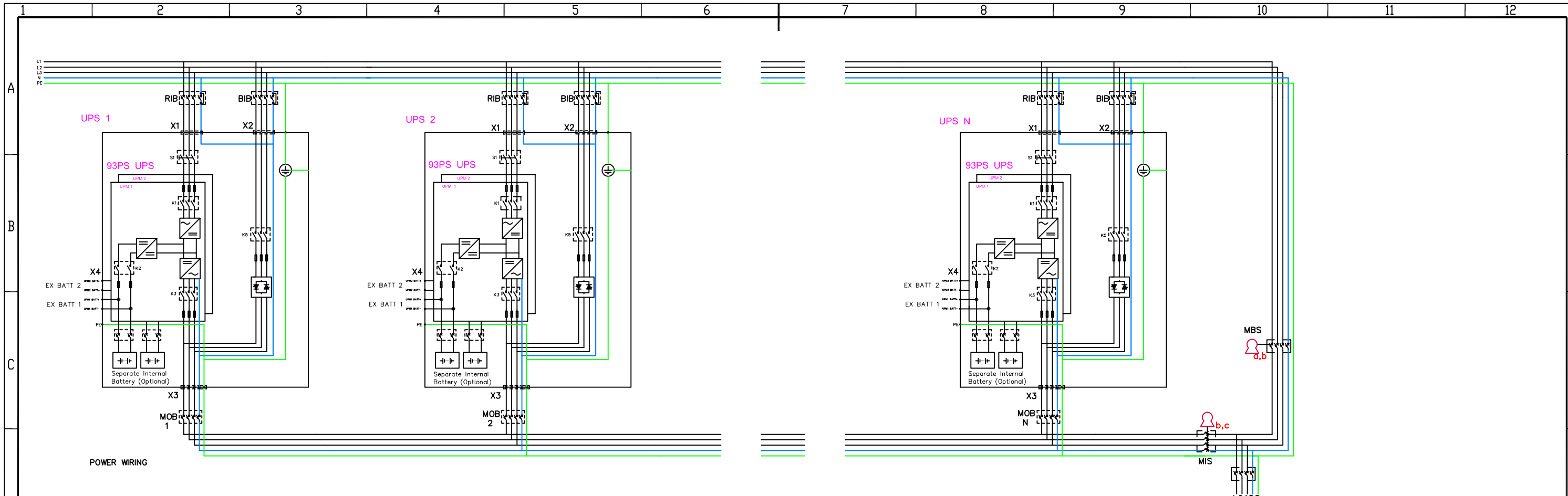
CONNECTIONS BEHIND REAR GLAND PLATES

Notes:
1. M50 size cable gland plates with strain relief bushing are used on the rear side of unit for power cabling and cables diameter should be of range 21–34.5mm.

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DESCRIPTION: 93PS 30-40KW Wiring Single Unit							
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MBS STATUS (Provided by others, Installed by others)
0.75 - 2.5mm² twisted pair (if possible, else shielded)
No earth needed

MOB STATUS (Provided by others, Installed by others)
0.75 - 2.5mm² twisted pair (if possible, else shielded)
No earth needed

PCAN (DUAL AS OPTION)
Provided by Eaton, Installed by Eaton

PULL CHAIN (REDUNDANT ON BYP STATUS)
Provided by Eaton, Installed by Eaton

ON BYPASS STATUS (NO INVERTORS ONLINE)
0.75 - 2.5mm², provided by others, Installed by others

- Mechanical bypass interlocking sequence
1. Place UPS system to bypass. On bypass status (K3) will energize Key A solenoid to release it
 2. Removing key A will switch on "force bypass" to the UPS system
 3. Place key A to MBS breaker and close breaker. Key B will be released.
 4. Aux contact of MBS will keep "force bypass" on UPS system
 5. Place key B to MIS breaker and open MIS to isolate UPS system from load. Key C will be released
 6. Place key C to it's dedicated keyhole to release "force bypass" command to allow UPS system testing

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93PS 30-40KW UPS Site Planning Data

Product Specifications

UPS Rating		AC Input	3P Rectifier Input Breaker (RIB)		3P+Bolted N Bypass Input Breaker (BIB)			AC Output	4P Inverter AC output Breaker MOB			Battery Breaker (BCB) (Ratings at the end of discharge, 1.67VPC)				For Single Unit Maintenance Bypass Switch (MBS)	For Parallel Units Common Maintenance Bypass Switch (MBS)		
			Nominal Current	Maximum Current	Nominal Current at 400v Input	Maximum Current at 15% under voltage	Integrated Bypass Fuse		Output Current	Inverter Short Circuit Current	Auxiliary Switches	Rating	Separate Battery Configuration (UPM Bttery)	Common Battery Configuration (UPS Battery)	Trip Device (Shunt Trip)	Auxiliary Switches	Rating	Rating	Auxiliary Switches
KVA	KW	v	A	A	A	A	Type	v	A	A / 300ms	Qty	VDC	A	A	VDC	Qty	A	A	Qty
30	30	400	45	57	44	64	200 FEE	400	44	144	2	500	63	143	24	1	44	44 x N	1
40	40	400	60	76	59	85	200 FEE	400	59	144	2	500	63	143	24	1	59	59 x N	1

Minimum recommended cable and fuse sizes

UPS RATING KW	Cable [mm ²]	Rectifier Fuse [A]	Bypass Fuse [A]	PE Cable [mm ²]	POS. & NEG. Line [mm ²]	Battery Fuse [A]	EX BATT PE Cable [mm ²]
30	4*16	63	63	1*16	2*16	2 x 63	1*16
40	4*25	80	80	1*16	2*16	2 x 63	1*16

Notes:

1. Rectifier AC input current calculations: Nominal – 100% load without charging; Maximum – 100% load with maximum charging (Rectifier current limit).
2. Inverter AC output current calculation: At 100% rated output load.
3. The system must be installed on a level floor suitable for computer or electronic equipment.
4. All wiring and installations must be in accordance with applicable National and Local Electric Regulations.
5. AC input to UPS: (3) phases, (1) neutral, (1) ground.
AC output to load: (3) phases, (1) neutral, (1) ground.
DC input from battery to UPS: (1) positive, (1) negative, (1) ground.
6. All breakers should be adjusted according to the specified Ampere values to protect the UPS and installation.
7. The static bypass switch is rated to a maximum value of 59 Amperes, nominal current at 400v and 85 Amperes, maximum current at 15% under voltage. If using the bigger rating BIB than mentioned in the table, output cable thermal protection should be rechecked.
8. For UPS installation that utilizes single feed input, The input breaker should be configured according to the rated rectifier input current.
9. Cable sizing is based on the standard IEC 60364-5-52 and IEC 60364-5-54. The sizing is for 70°C rated copper cables.
10. Specifications are subject to change.

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