



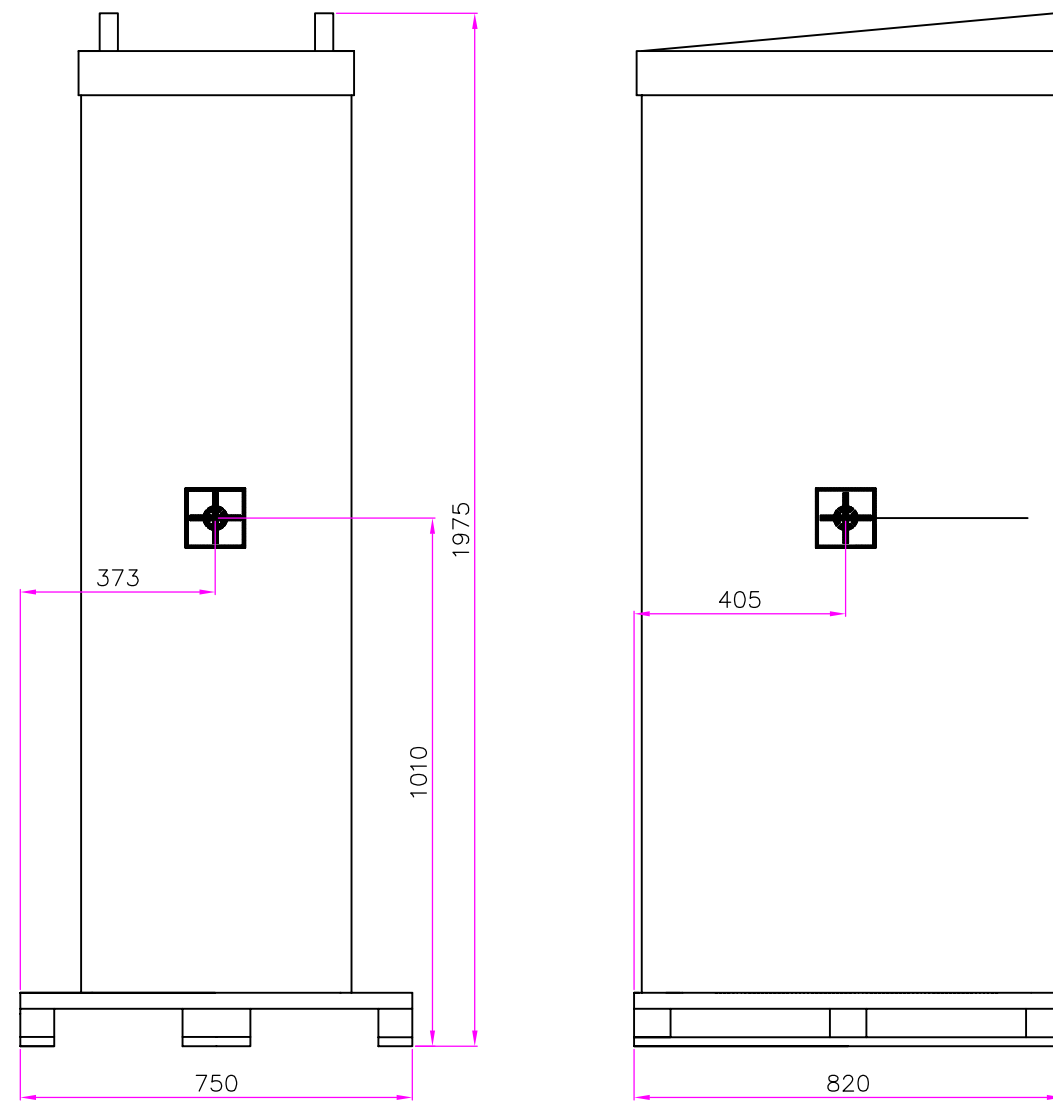
Powering Business Worldwide

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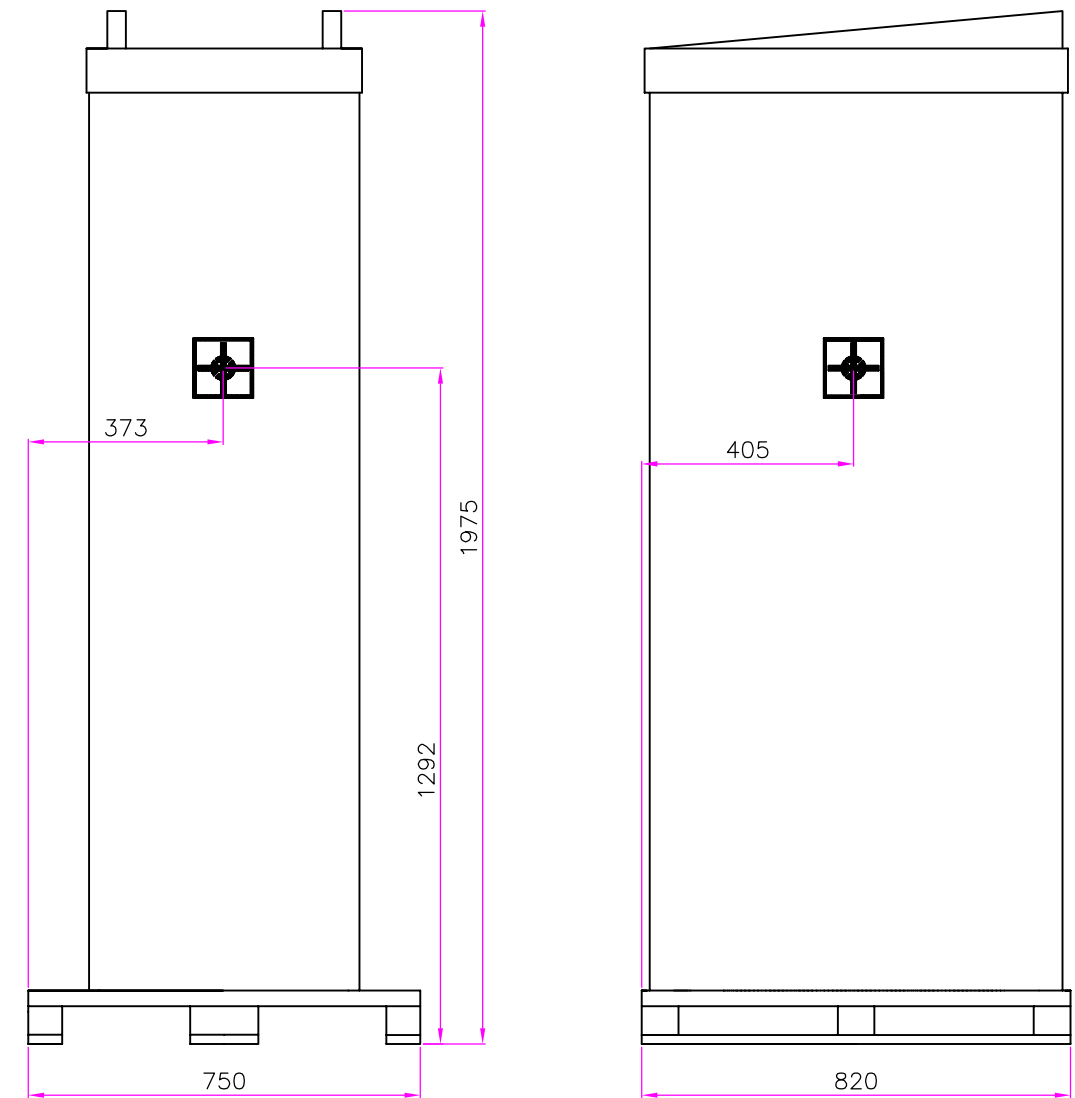
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| DESCRIPTION: 93PS 30-40KW  |           |                        |             |                   |                 |           |  |
| ORIGINATED: ATIF RASHEED   | 1-07-2015 | ECO:                   | NAME:       |                   | REVISION: 001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

SIDE VIEW

### COG Dimensions with Internal Batteries





FRONT VIEW

SIDE VIEW

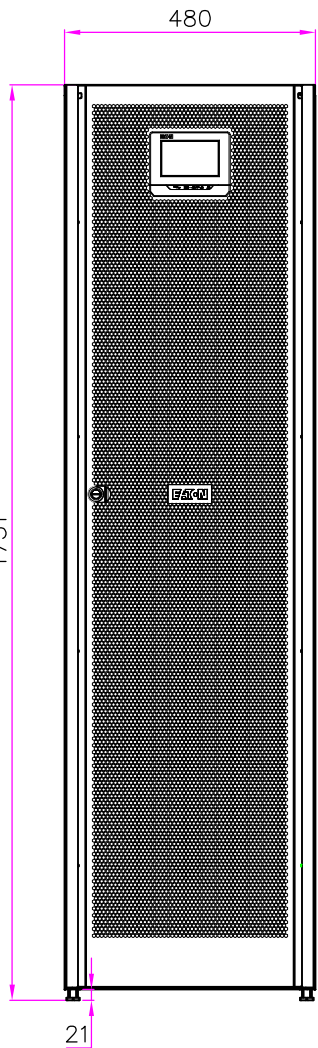
COG Dimensions without Internal Batteries

## Product Specifications

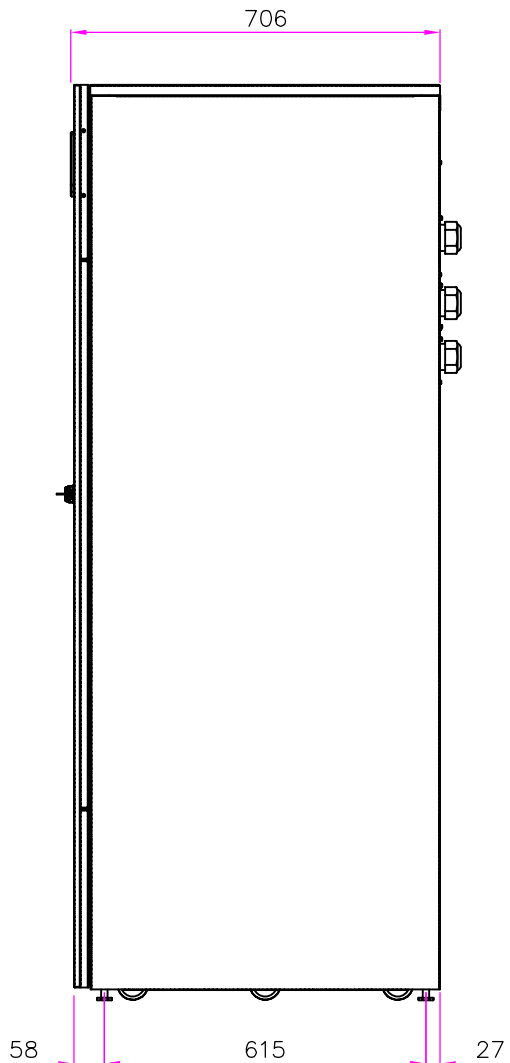
| UPS Rating |    | Shipping Dimensions<br>WXDXH | Approx. Weight<br>Shipping with<br>Batteries | Approx. Weight<br>Shipping without<br>Batteries |
|------------|----|------------------------------|--|---|
| KVA        | KW | MM                           | Kg   | Kg  |
| 30         | 30 | 750X820X1975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

|  |  |   |  |                                   |  |   |  |
|--|--|---|--|-----------------------------------|--|---|--|
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| DESCRIPTION: 93PS 30-40KW Packaging Dimensions   |  |   |  |                                   |  |   |  |
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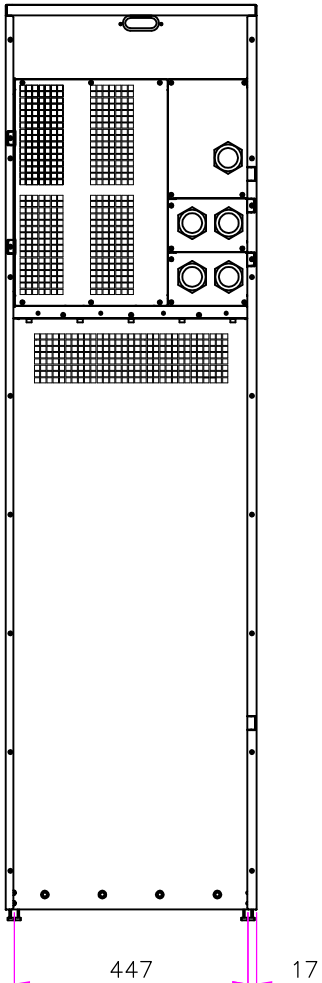
| Product Specifications |    |                                      |                                |                                 |   |   |   |  |                  |                |
|------------------------|----|--------------------------------------|--------------------------------|---------------------------------|---|---|---|--|------------------|----------------|
| UPS Rating             |    | Max Heat Dissipation<br>at 100% Load | Cabinet<br>Dimensions<br>WXDXH | Shipping<br>Dimensions<br>WXDXH | Approx. Weight<br>Cabinet with<br>Batteries | Approx. Weight<br>Cabinet<br>without<br>Batteries | Approx.<br>Weight<br>Shipping with<br>batteries | Approx. Weight<br>Shipping<br>without<br>Batteries | Floor<br>Landing | Cooling<br>Air |
| KVA                    | KW | KW                                   | MM                             | MM                              | Kg  | Kg  | Kg  | Kg   | Kg/m²            | m³/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              |



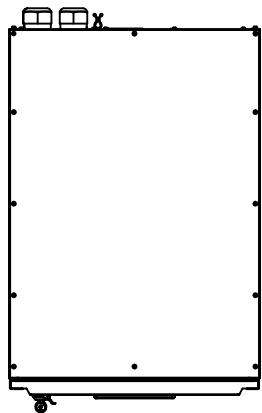
FRONT VIEW



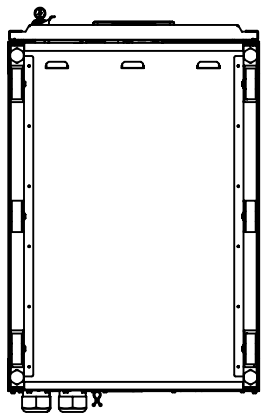
SIDE VIEW



REAR VIEW



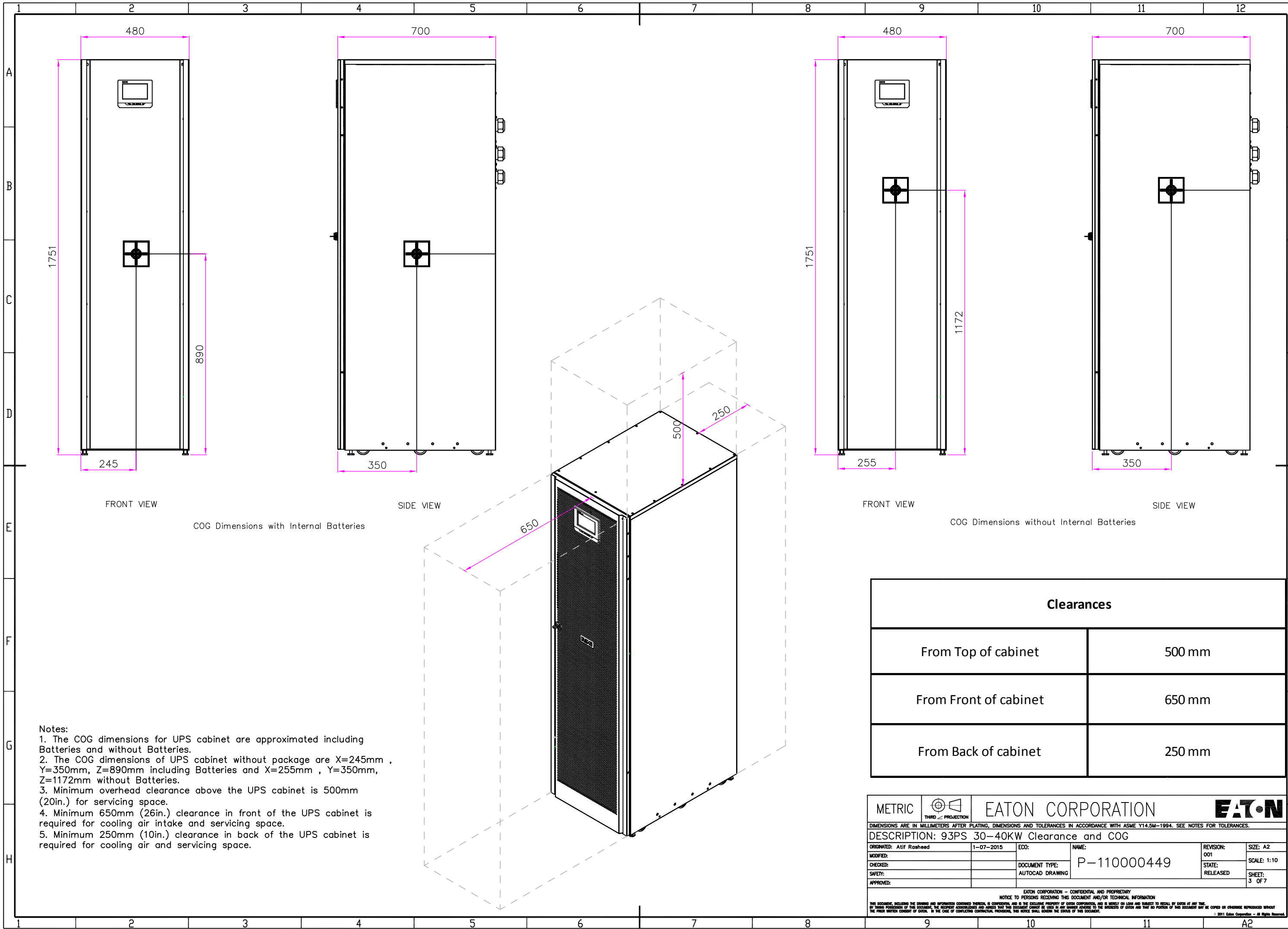
TOP VIEW



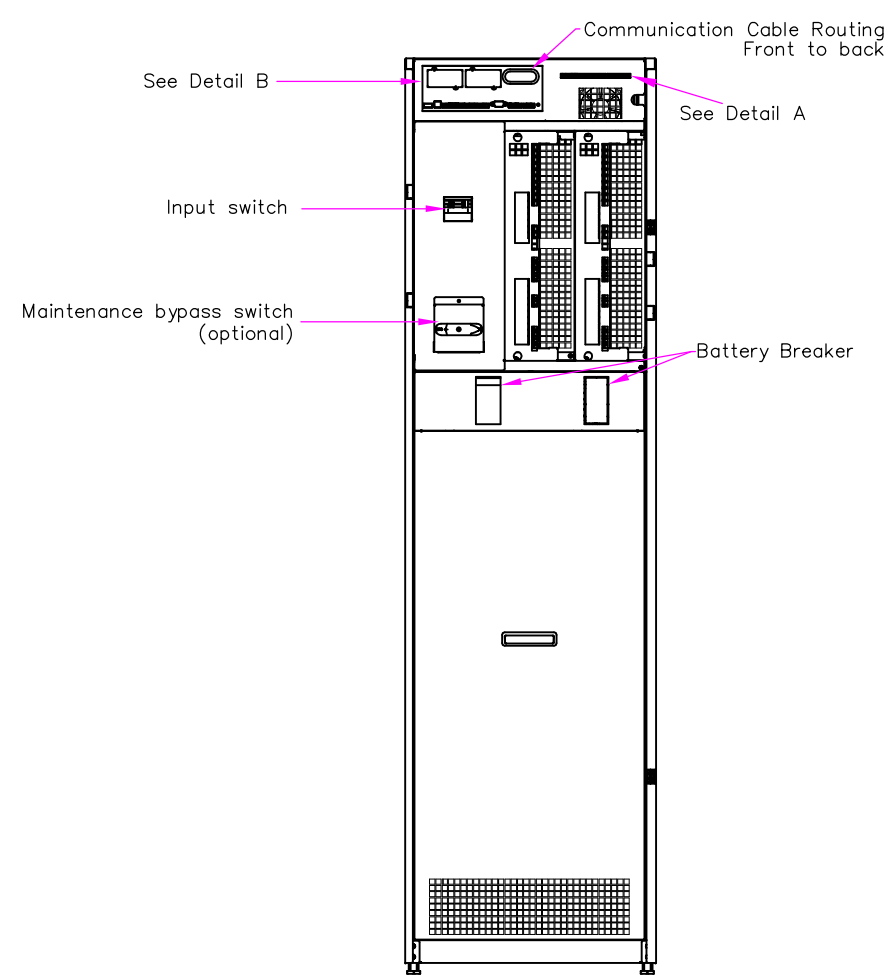
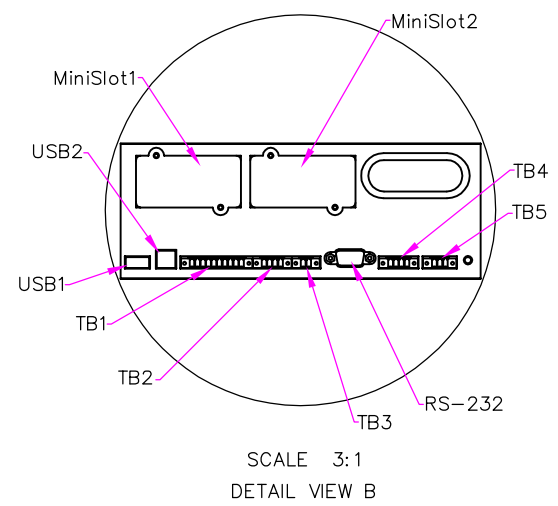
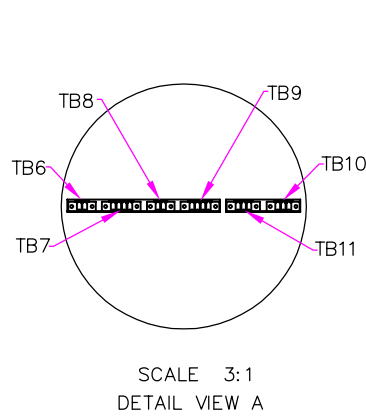
BOTTOM VIEW

- 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.

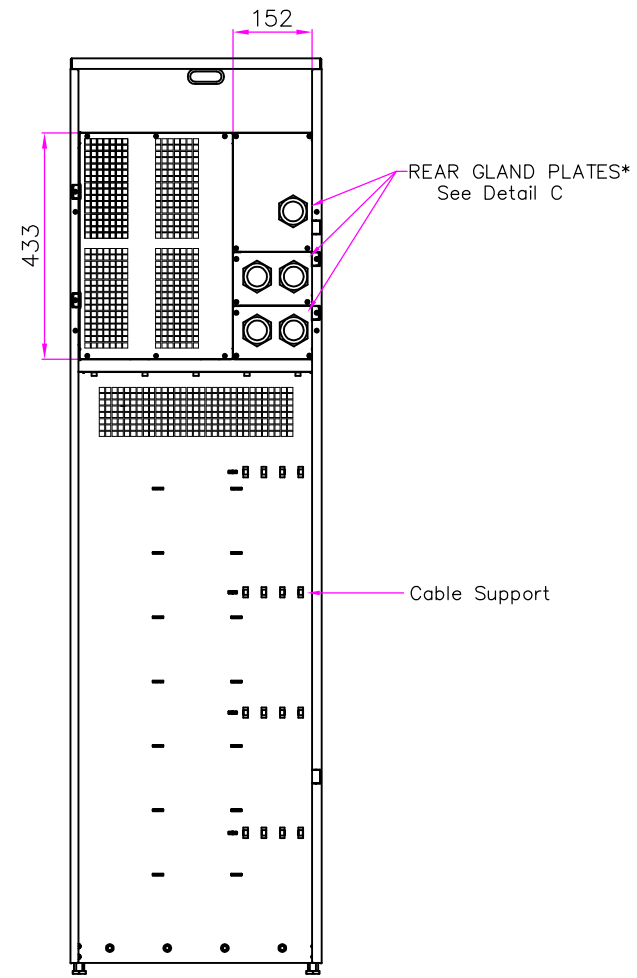
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| DESCRIPTION: 93PS 30–40KW Dimensional Drawings   |                        |                                |             |                 |               |
| ORIGINATED: Atif Rashid  | 1-07-2015              | ECO:                           | NAME:       | REVISION: 001   | SIZE: A2      |
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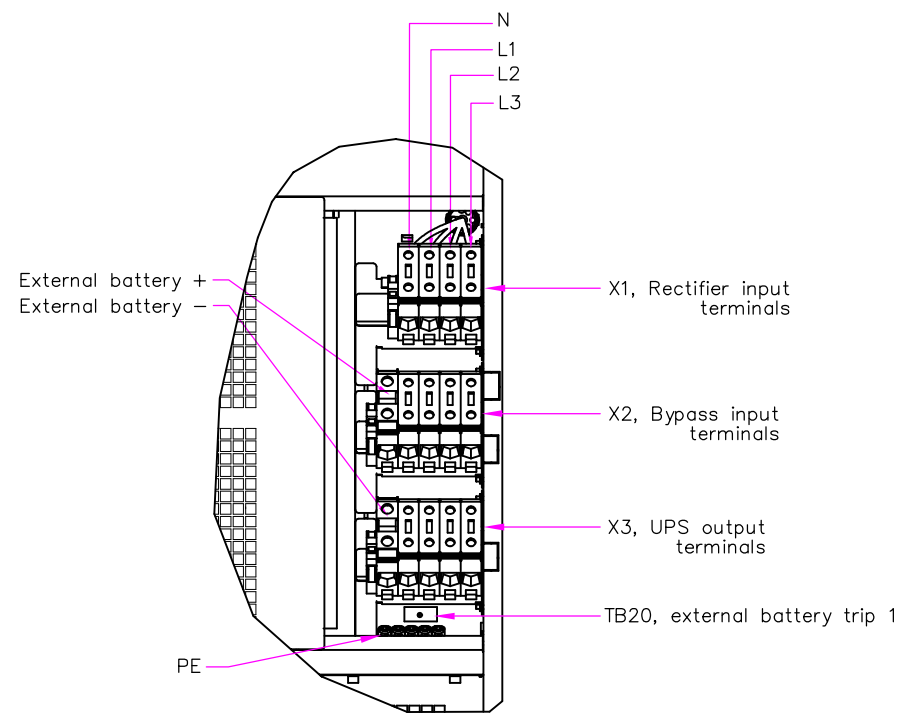




CONNECTIONS WITH FRONT PANEL REMOVED



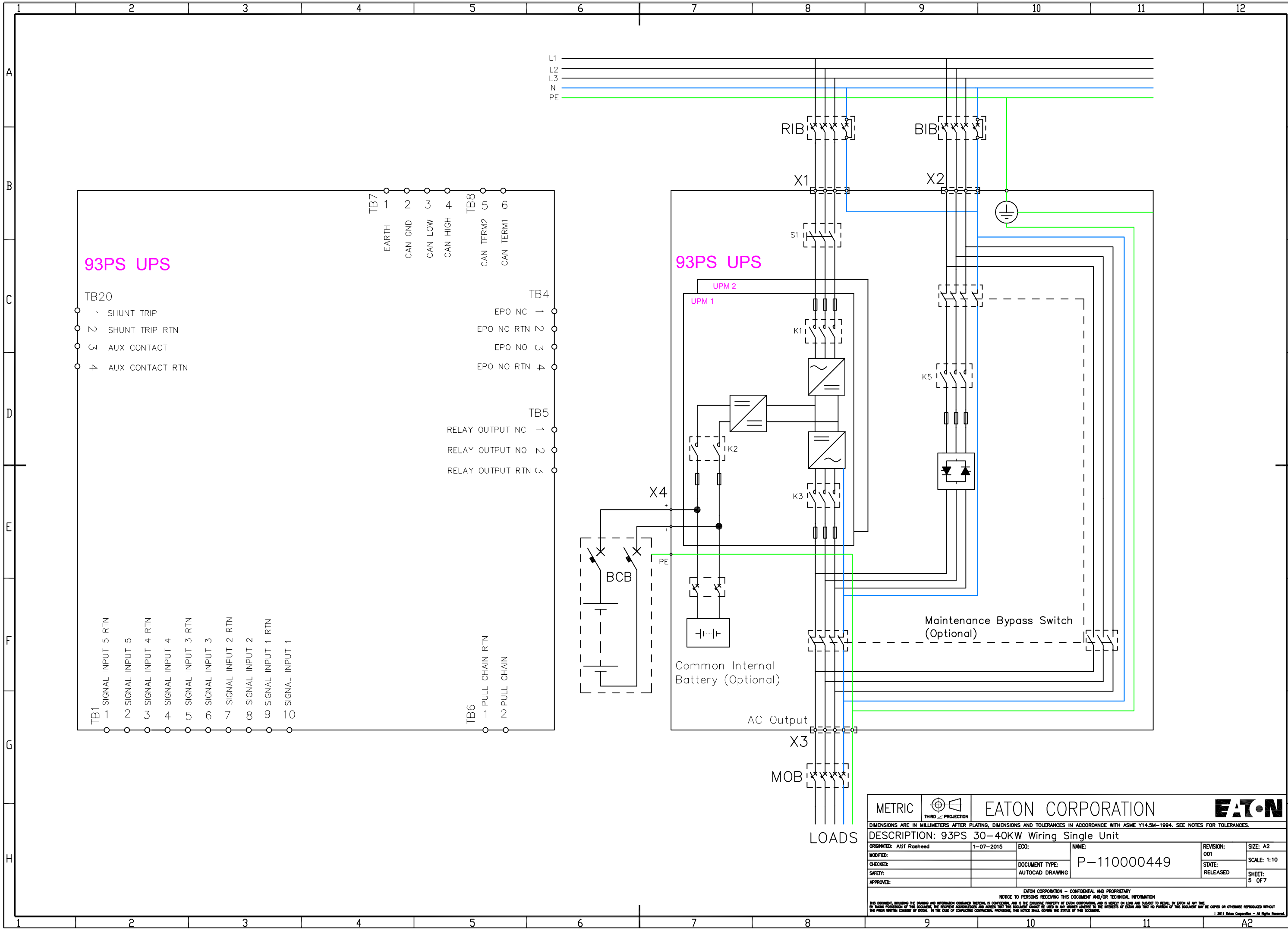
REAR CONNECTIONS





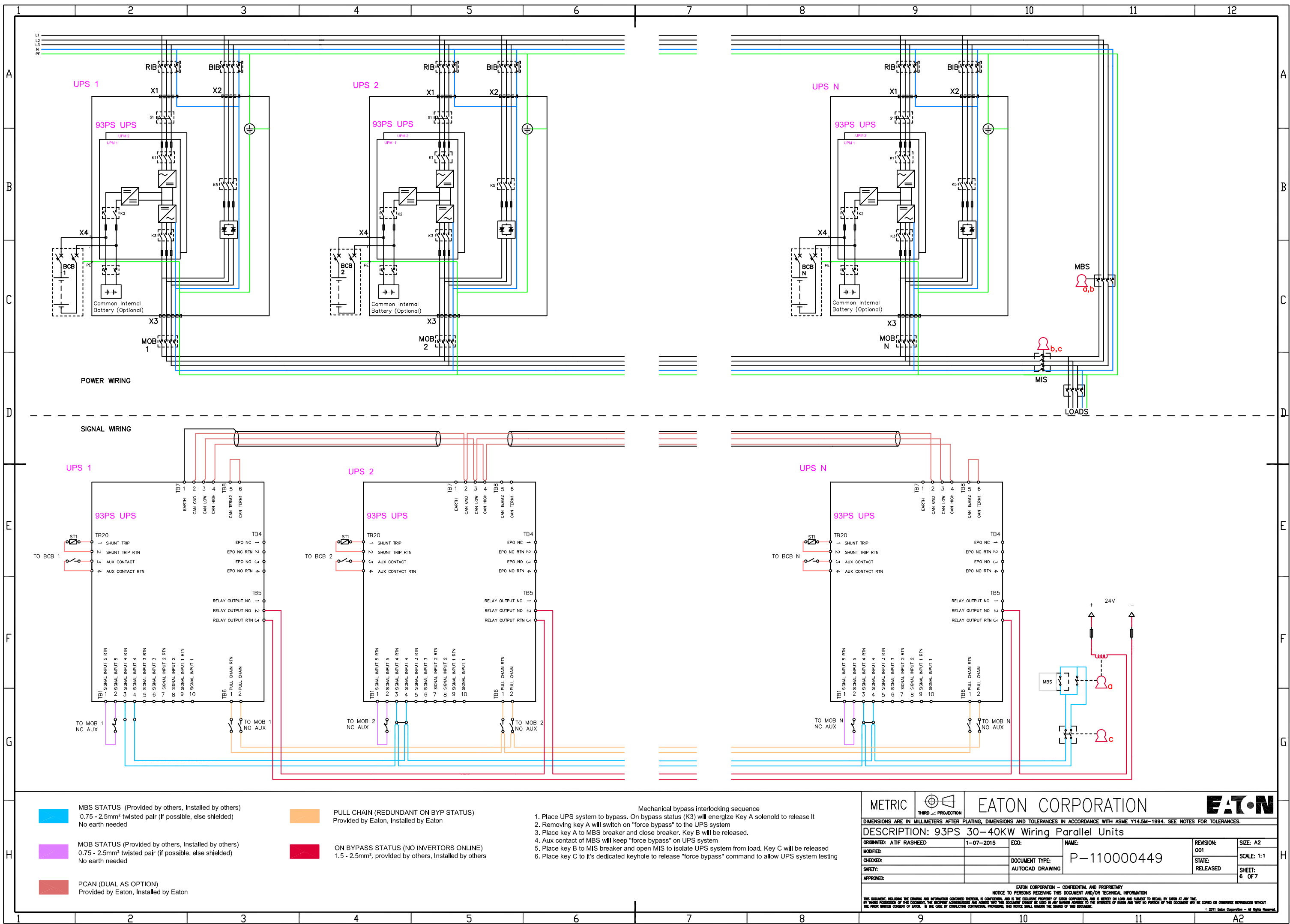
SCALE 5:1  
DETAIL VIEW C  
CONNECTIONS BEHIND REAR GLAND PLATES

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 Customer Connections  |           |                        |             |                   |               |  |  |
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| DESCRIPTION: 93PS 30-40KW Wiring Single Unit   |  |  |  |                   |  |   |  |
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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)<br>(Ratings at the end of discharge, 1.67VPC) |   |   |                          |                    | For Single Unit<br>Maintenance<br>Bypass Switch<br>(MBS) | For Parallel Units<br>Common Maintenance<br>Bypass Switch<br>(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 (UPSBattery) | 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                                | 108*/144                       | 2                  | 500   | 63  | 143                                       | 24                       | 1                  | 44   | 44 x N   | 1                  |
| 40         | 40 | 400      | 60                               | 76              | 59                                     | 85                                   | 200 FEE                | 400       | 59                                | 108*/144                       | 2                  | 500   | 63  | 143                                       | 24                       | 1                  | 59   | 59 x N   | 1                  |

\* with 15 kW power modules


Minimum recommended cable and fuse sizes

| UPS RATING KW | Cable [mm²] | Rectifier Fuse [A] | Bypass Fuse [A] | PE Cable [mm²] | POS. & NEG. Line [mm²] | Battery Fuse [A] | EX BATT PE Cable [mm²] |
|---------------|-------------|--------------------|-----------------|----------------|------------------------|------------------|------------------------|
| 30            | 4*16        | 63                 | 63              | 1*16           | 1*35                   | 160              | 1*16                   |
| 40            | 4*25        | 80                 | 80              | 1*16           | 1*35                   | 160              | 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.

METRIC



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DESCRIPTION: 93PS 30-40KW Specifications

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