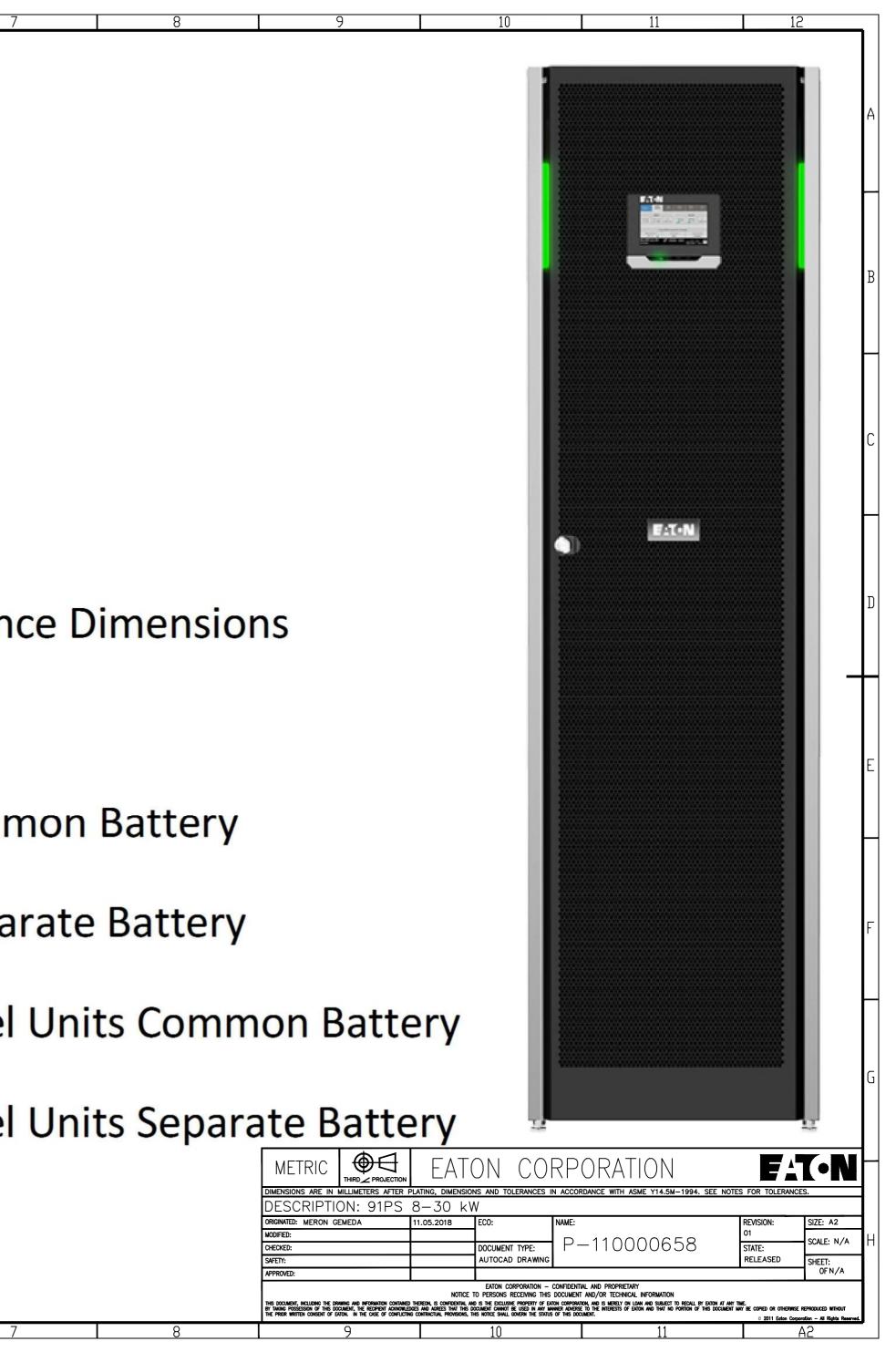
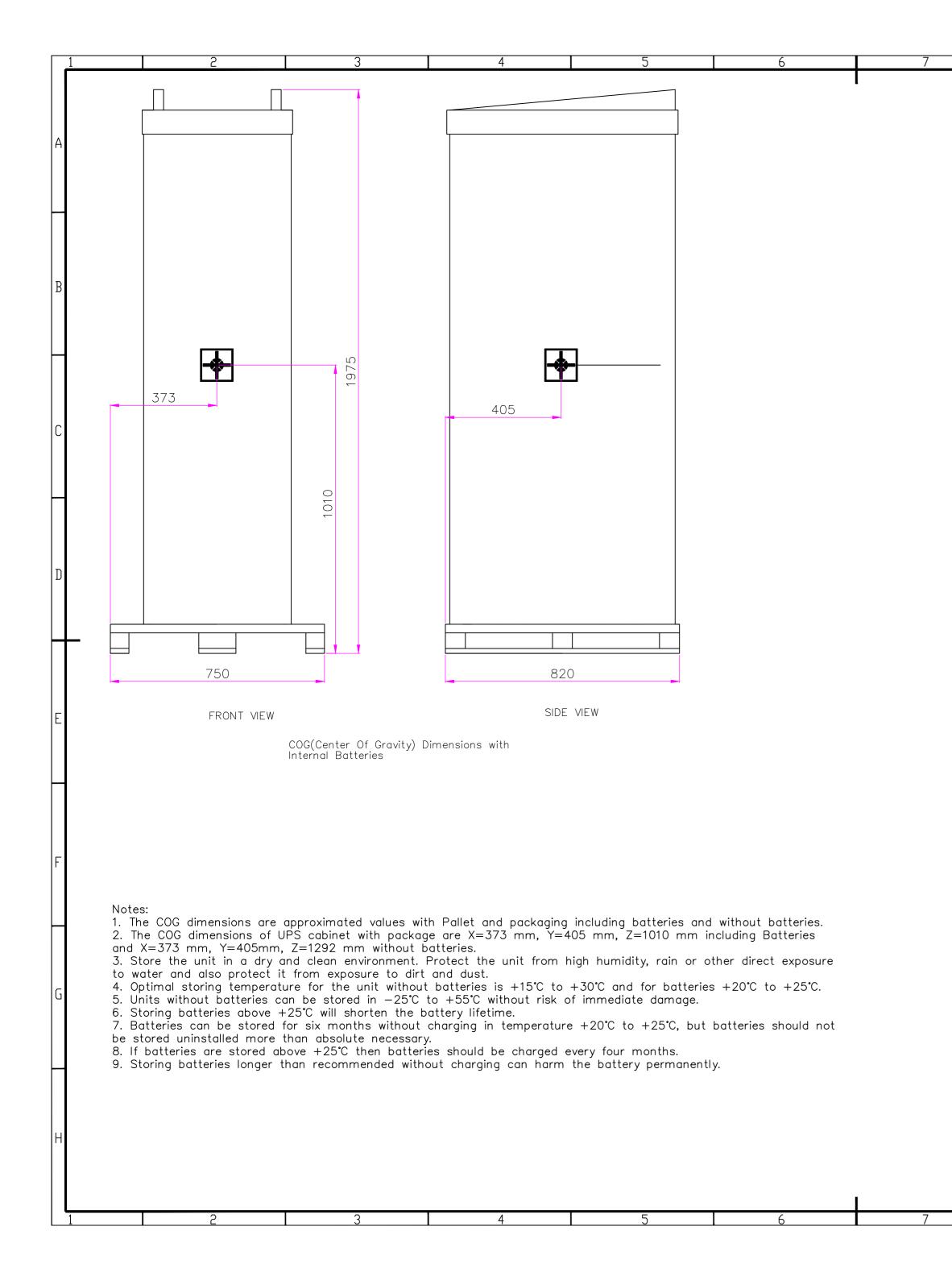
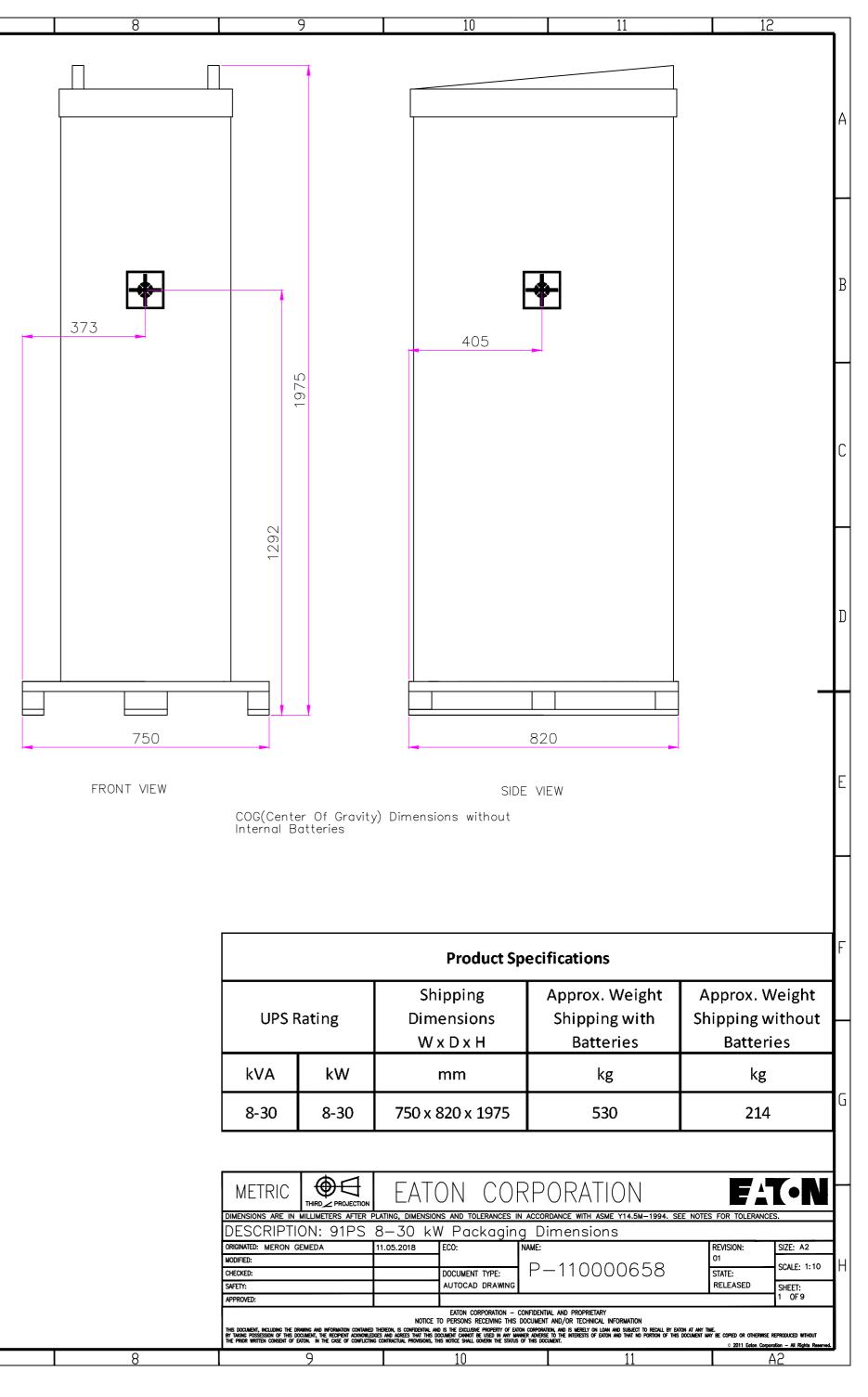
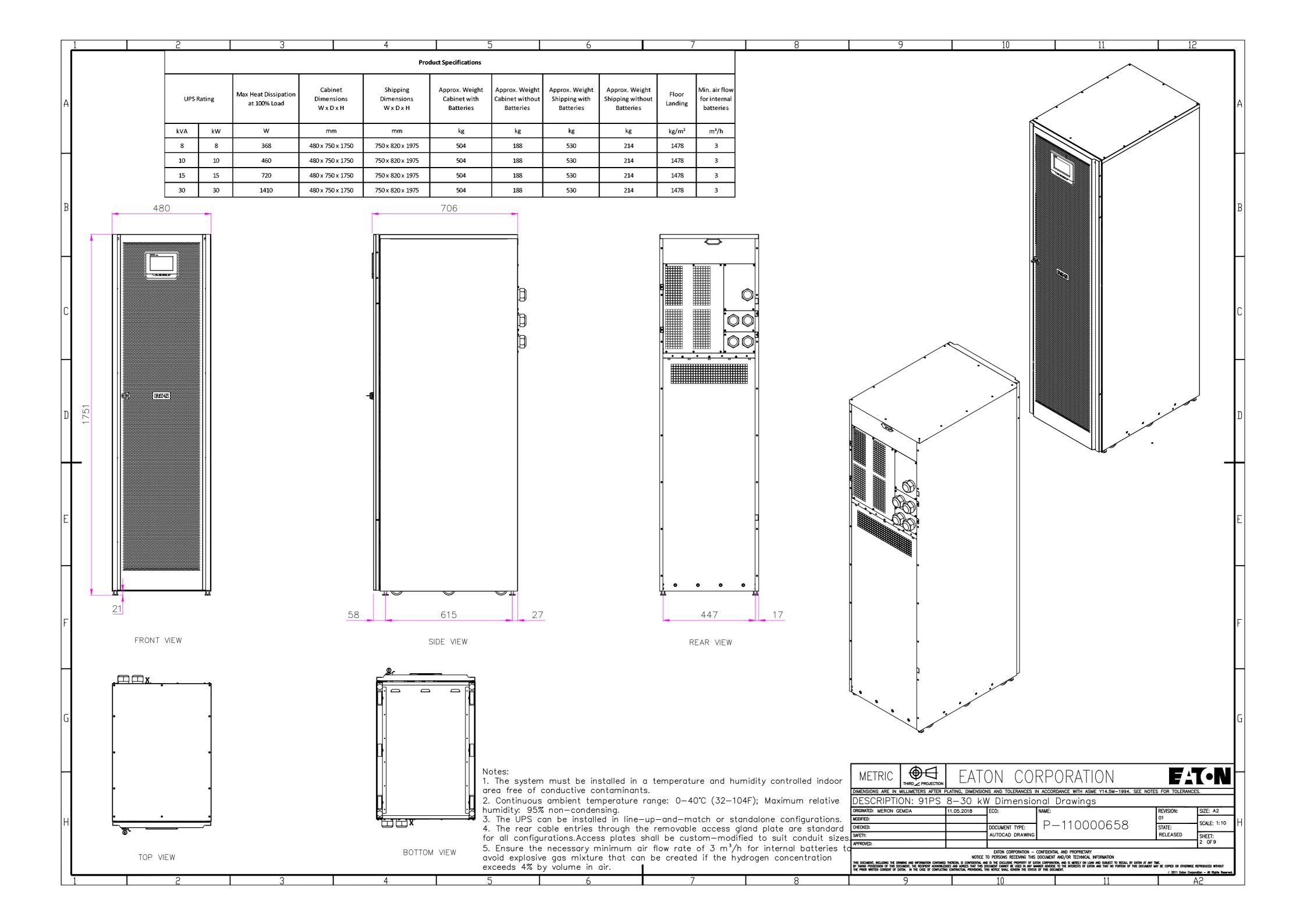
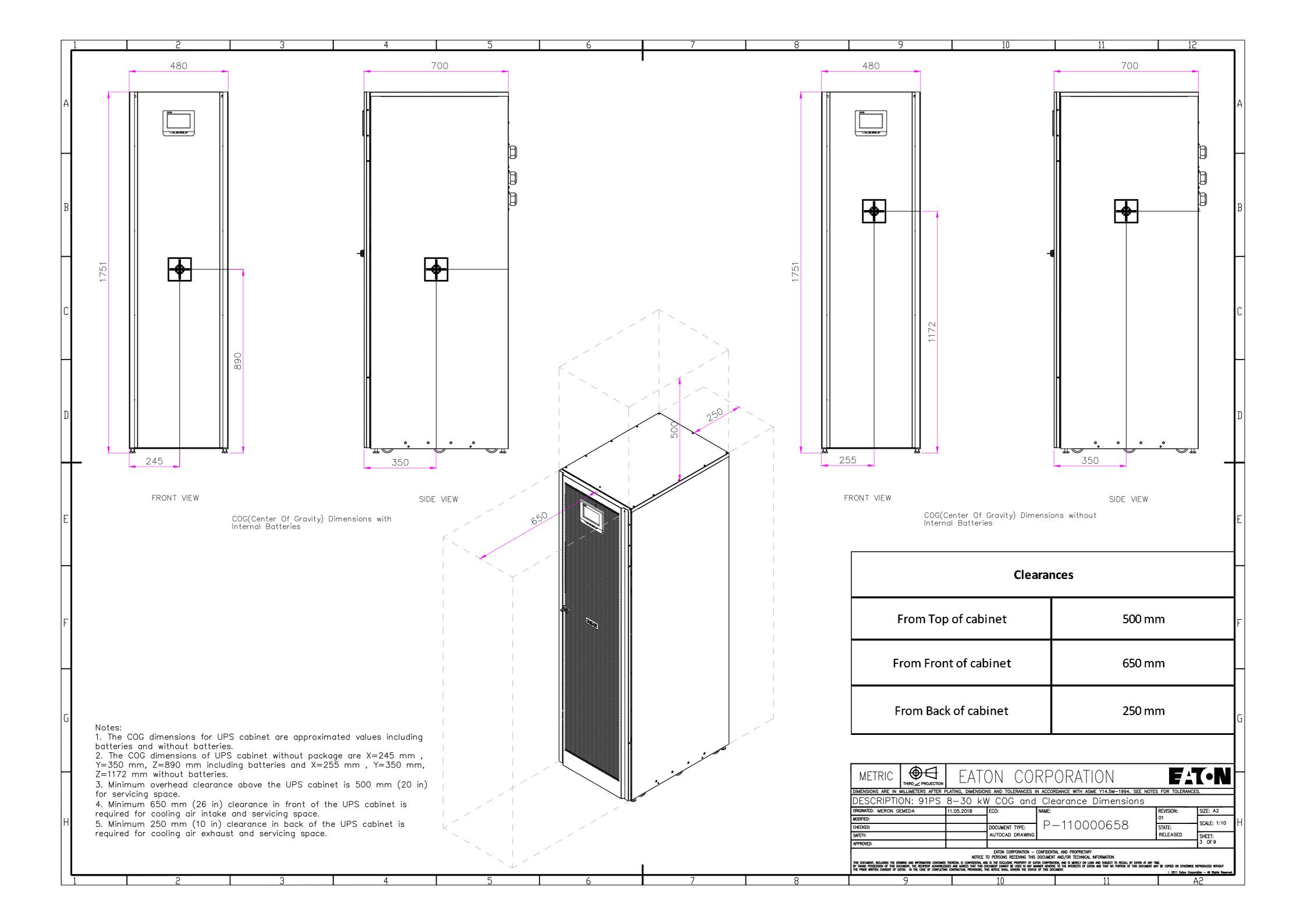
<u>1</u>		3 4 <u>5</u> 6 7 CON ng Business Worldwide
SITE P		NG DATA 91PS 8-30 kW
Page	1	Packaging Dimensions
Page	2	Dimensional Drawings
Page	3	COG(Center Of Gravity) and Clearan
Page	4	Customer Connections
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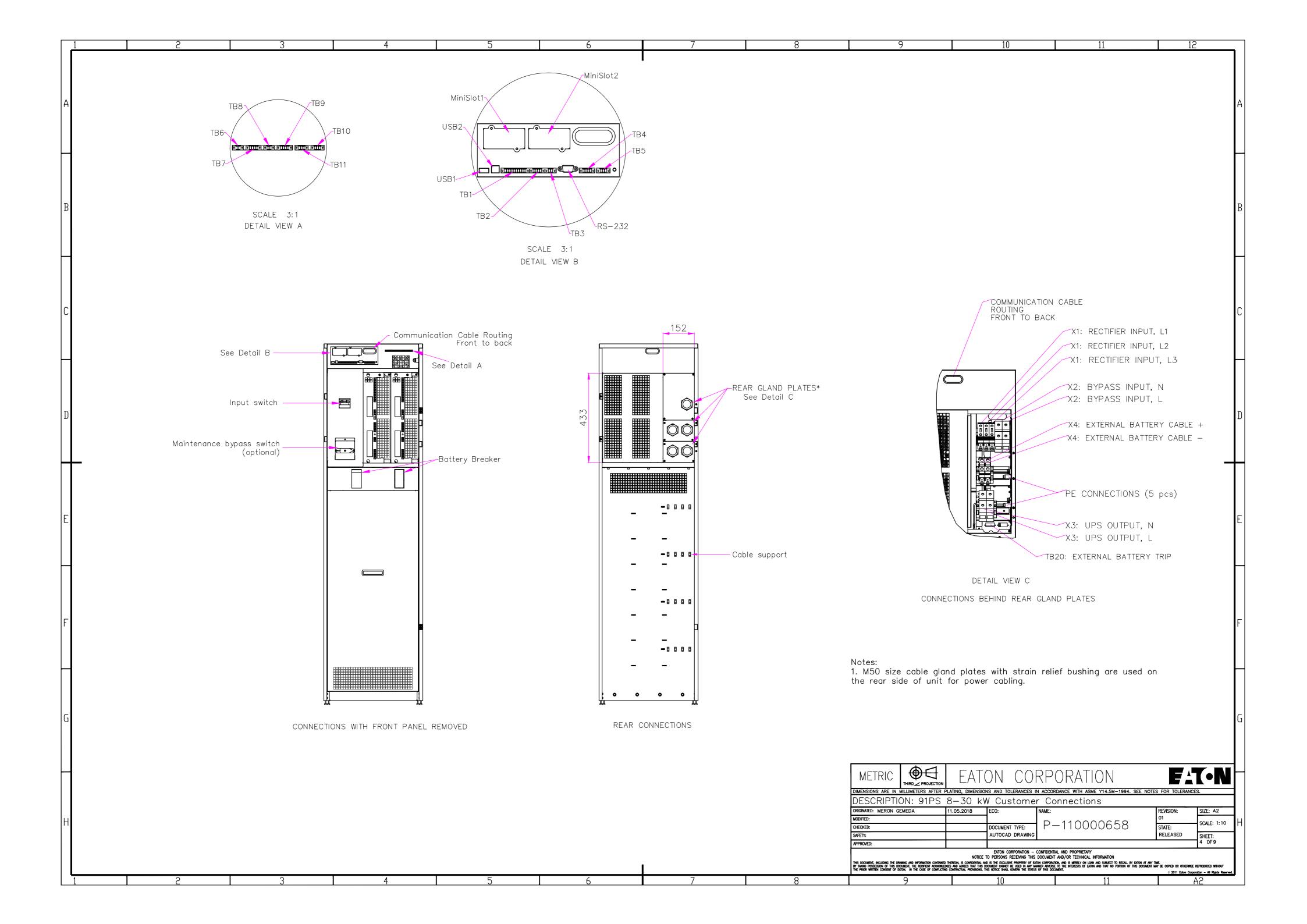


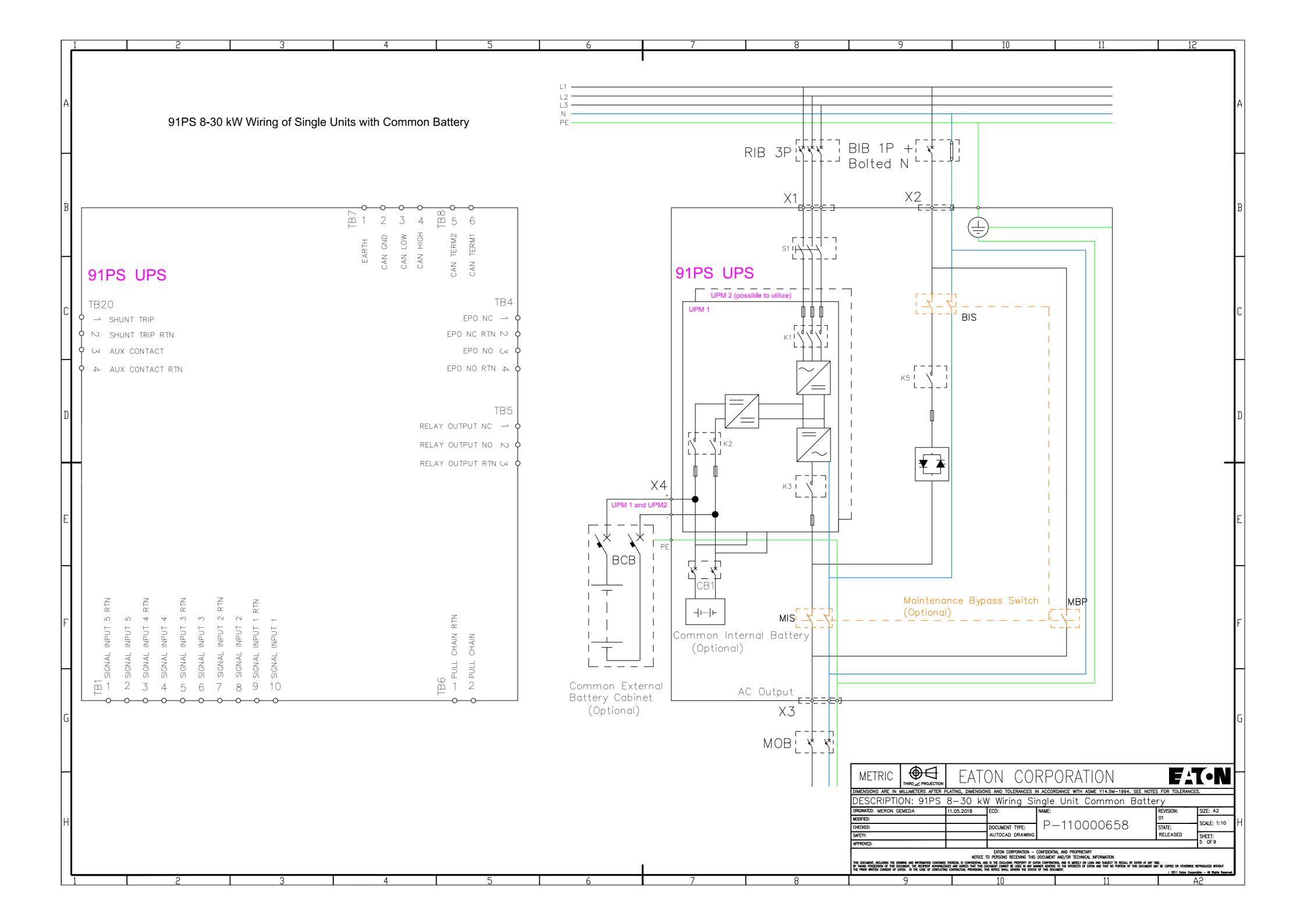




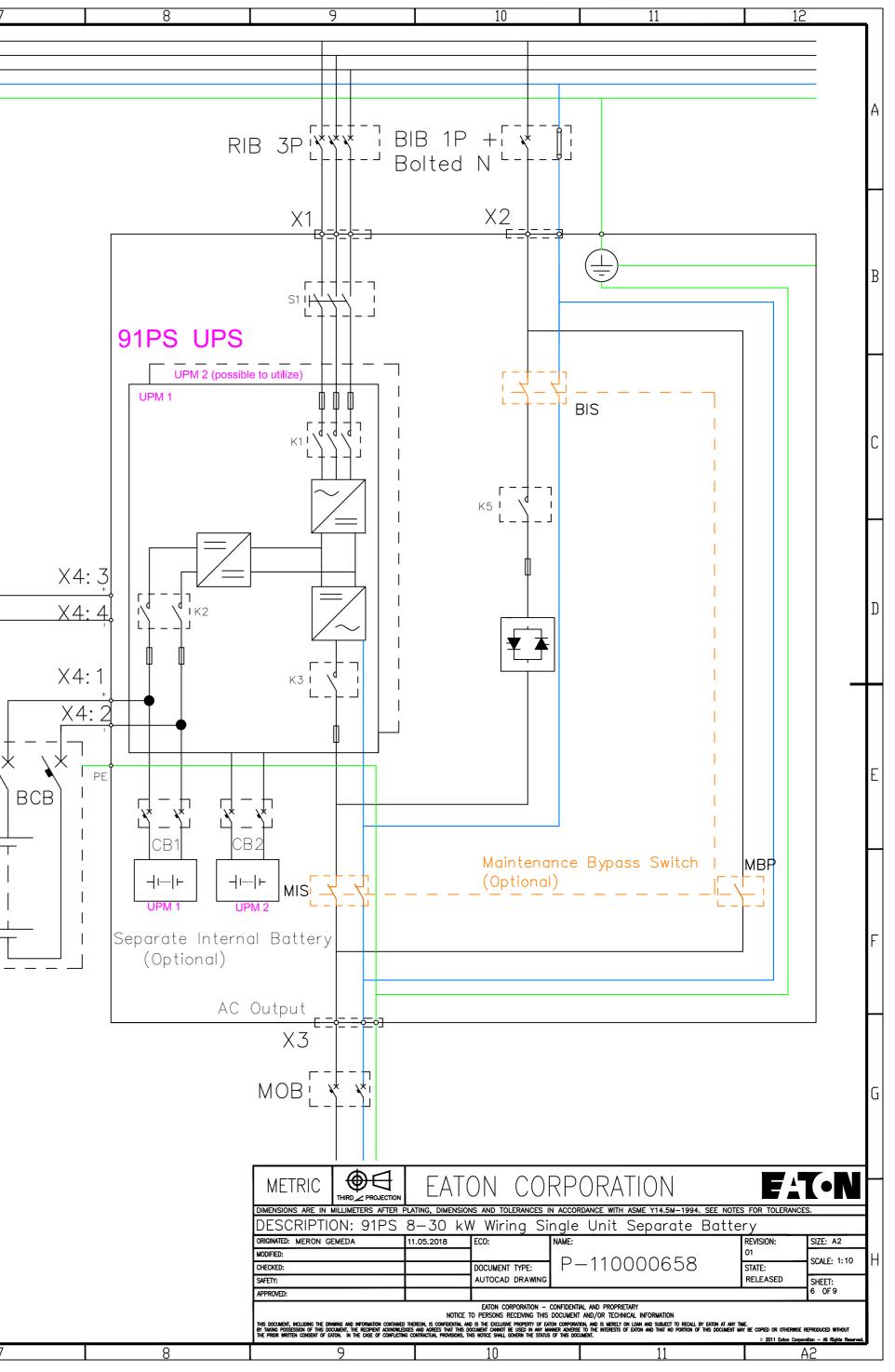


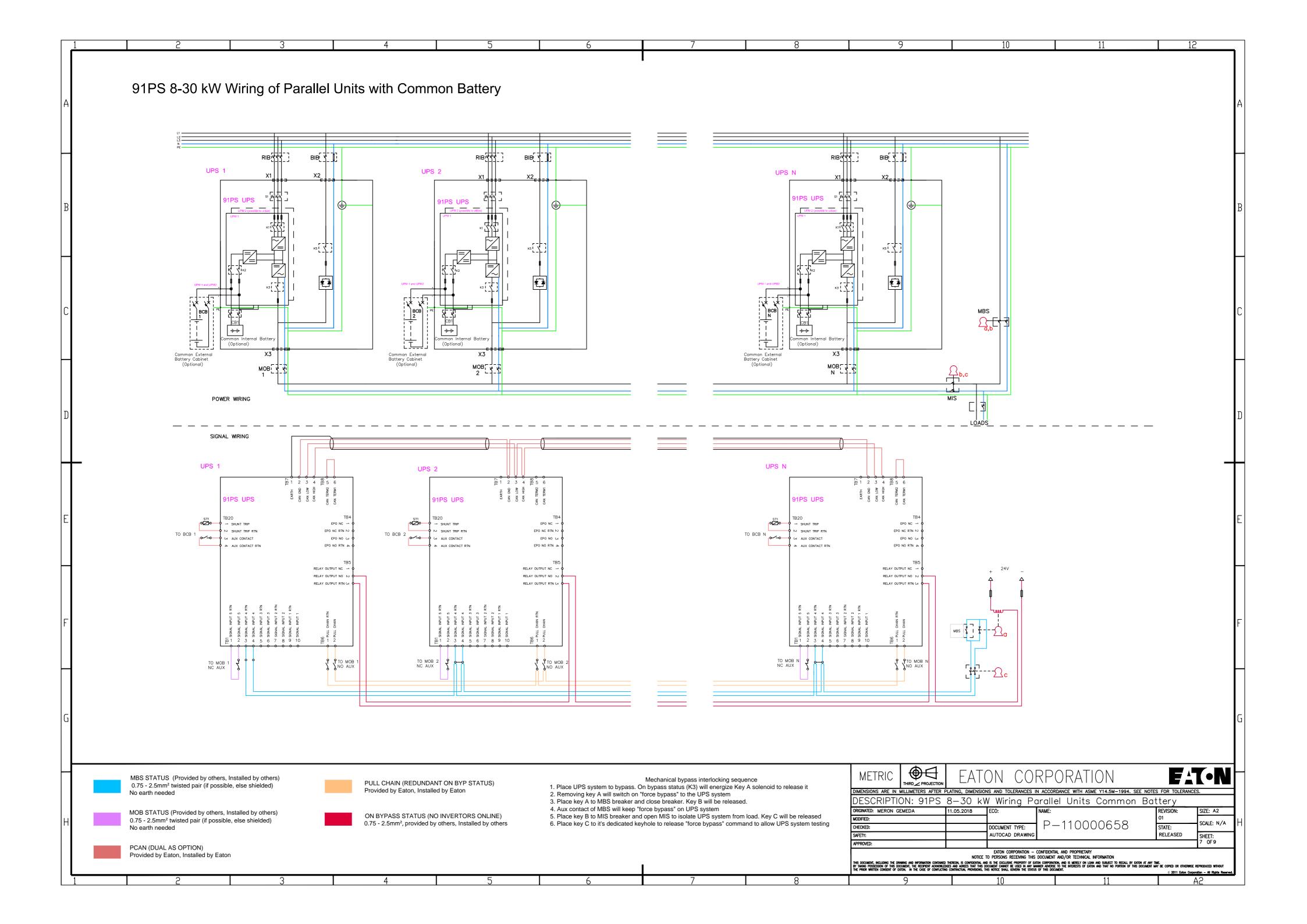


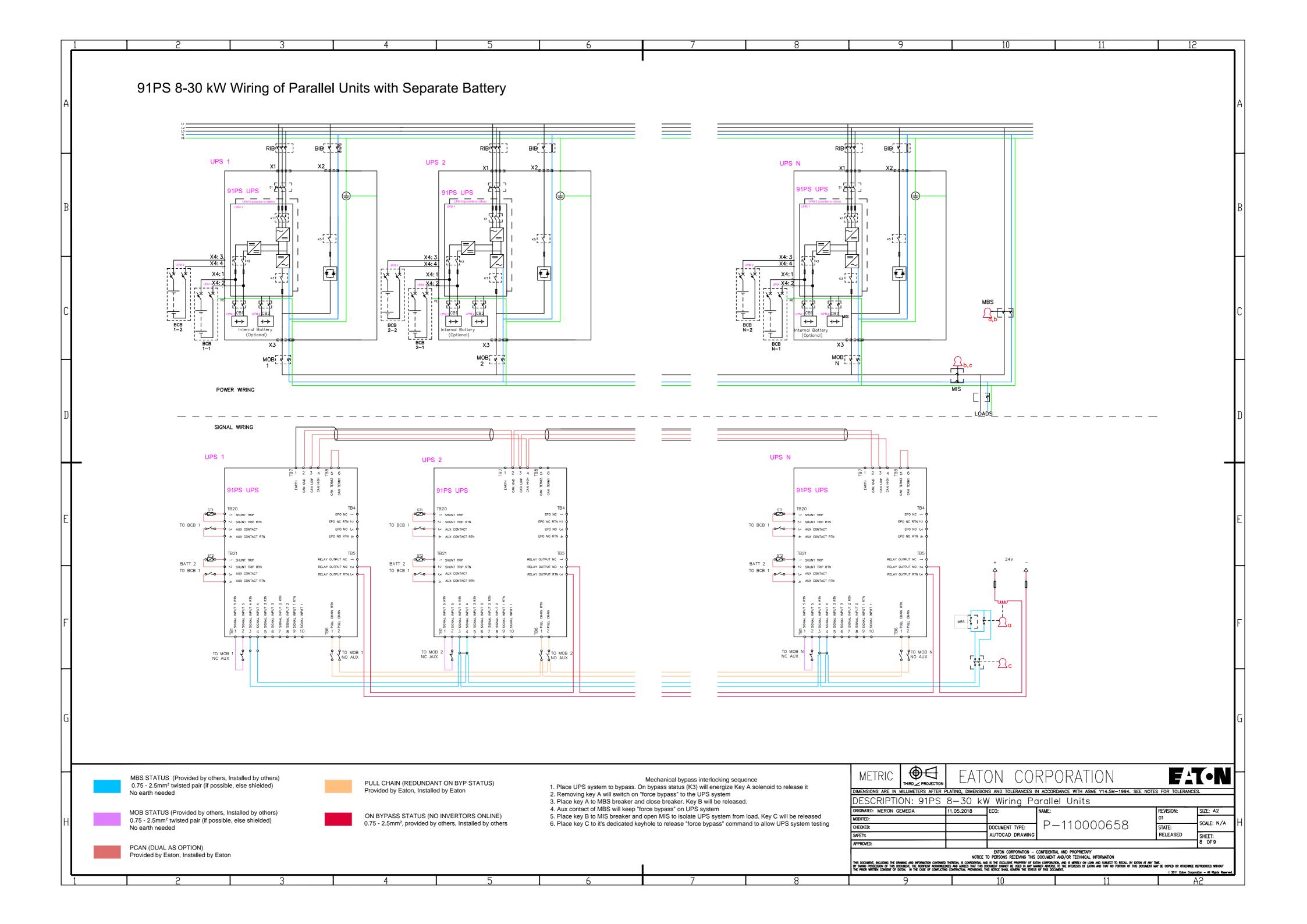




	1 2	3	4	5	6 7
A	91PS 8-3	0 kW Wiring of Single	e Units with Separate	e Battery	L1 L2 L3 N PE
В	91PS UPS		EARTH TB7 CAN GND 7 CAN LOW CAN LOW	CAN HIGH F O	
С	TB20 Shunt TRIP N SHUNT TRIP RTN AUX CONTACT AUX CONTACT RTN			TB4 EPO NC – EPO NC RTN N EPO NO G EPO NO RTN 4	¢ ¢
D	TB21			TB5 RELAY OUTPUT NC → RELAY OUTPUT NO N RELAY OUTPUT RTN G	UPM 2
E					
F	TB1 — SIGNAL INPUT 5 RTN — SIGNAL INPUT 5 RTN — N SIGNAL INPUT 4 RTN — + SIGNAL INPUT 4 — + SIGNAL INPUT 4 — 1 2 RTN	<ul> <li>O) SIGNAL INPUT 3</li> <li>V- SIGNAL INPUT 2 RTN</li> <li>O) OSIGNAL INPUT 2</li> <li>O) SIGNAL INPUT 1 RTN</li> <li>O) SIGNAL INPUT 1</li> </ul>		TB6 - PULL CHAIN RTN N PULL CHAIN	
G		-0-0-0-0		OO	
H	1 2	3	4	5	6 7







	<b>2</b> 3 4 5 6 7 8 9 10 11 <b>91PS 8-30 kW UPS Site Planning Data</b>															
A	Product Specifications															
	UPS Rating	Rectifier	3P Rectifier Input Breaker (RIB)	Bypass AC		LP+Bolted N Input Breaker (BIB)	AC Output		AC output Breaker MOB	(Ratir	-	reaker (BCB) f discharge, 1.67 V/cell)	For Single Mainten Bypass St (MBS	ance Con witch	For Parallel Units mmon Maintenance Bypass Switch (MBS)	

Output

Current

Α

36

45

68

91

136

۷

230

230

230

230

230

Inverter

Short Circuit

Current

A / 300 ms

310

310

310

310

310

	Minimum recommended cable and fuse sizes (common battery)										Minimum	recommended	cable and fuse	sizes (separat	e battery)		
UPS RATING kW	Rectifier cable [mm²]	Rectifier Fuse [A]	Bypass, output cable [mm²]	Bypass Fuse [A]	PE Cable [mm²]	POS. & NEG. Line [mm²]	Battery Fuse [A]	EXT BATT PE Cable [mm²]	UPS RATING	W Rectifier cable [mm <sup>2</sup> ]	Rectifier Fuse [A]	Bypass, output cable [mm²]	Bypass Fuse [A]	PE Cable [mm²]	POS. & NEG. Line [mm <sup>2</sup> ]	Battery Fuse [A]	EXT BATT PE Cable (mm²)
8	2,5	20	10	50	10	35	125	16	8	2,5	20	10	50	10	16	63	16
10	4	20	16	63	16	35	125	16	10	4	20	16	63	16	16	63	16
15	10	32	25	80	16	35	125	16	15	10	32	25	80	16	16	63	16
20	10	40	35	100	16	35	125	16	20	10	40	35	100	16	16	63	16
30	16	63	70	160	35	35	125	16	30	16	63	70	160	35	16	63	16

Maximum conductor cross section										
Rectifier/Bypass/Output	Bypass/Output	EXT. Battery (common)	EXT. Battery (separate)							
Solid/stranded wire: 70 mm <sup>2</sup> Stranded wire with ferrule: 50 mm <sup>2</sup>	Solid/stranded wire: 95 mm <sup>2</sup> Stranded wire with ferrule: 95 mm <sup>2</sup>	Solid/stranded wire: 95 mm <sup>2</sup> Stranded wire with ferrule: 70 mm <sup>2</sup>	Solid/stranded wire: 50 mm <sup>2</sup> Stranded wire with ferrule: 35 mm <sup>2</sup>							

Input

V

230

230

230

230

230

Maximum

Current

А

18

22

29

38

57

Nominal

Current

Α

12

15

23

30

45

Nominal

Current at

230 V Input

Α

36

45

68

91

136

Notes:

1. Rectifier AC input current calculations: Nominal - 100% load without charging; Maximum - 100% load with maximum charging (Rectifier current limit).

Maximum

Current at 15%

under voltage

Α

41

51

77

102

153

Integrated

**Bypass Fuse** 

Туре

3 x 200FEE (parallel)

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. Rectifier AC input to UPS: (3) phases and (1) ground.

AC Input

V

400

400

400

400

400

kW

8

10

15

20

30

kVA

8

10

15

20

30

Bypass AC input to UPS: (1) phase, (1) neutral, (1) ground.

AC output to load: (1) phase, (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.  $\Theta$ EATON CORPORATION F<sub>1</sub>T•N METRIC 8. For UPS installation that utilizes single feed input, The input breaker should be configured according to the rated rectifier input IMENSIONS ARE IN MILLIMETERS AFTER PLATING, DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ASME Y14.5M-1994. SEE NOTES FOR TOLERANCE current. DESCRIPTION: 91PS 8-30 kW Product specifications 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. ORIGINATED: MERON GEMEDA 11.05.2018 10. Specifications are subject to change. REVISION SIZE: A2 MODIFIED: SCALE: N/A P-110000658 DOCUMENT TYPE: CHECKED: STATE: SHEET: 9 OF 9 RELEASED AUTOCAD DRAWING SAFETY: APPROVED: EATON CORPORATION - CONFIDENTIAL AND PROPRIETARY NOTICE TO PERSONS RECEIVING THIS DOCUMENT AND/OR TECHNICAL INFORMATION THIS DOCUMENT, INCLUDING THE DRAWING AND INFORMATION CONTAINED THEREON, IS COMPENITAND OF TELECULING PROPERTY OF FAUND COMPORATION, AND IS MERCIFY ON LOAM AND SUBJECT TO RECALL BY FAITON AT ANY TIME. BY TANING POSSESSION OF THIS DOCUMENT, THE RECEPTENT ANOMALEDES AND ARRESS THAT THIS DOCUMENT CANNOT BE USED IN ANY MANNER ANDERES TO THE INTERSITS OF FAITON AND THAT NO PORTION OF THIS DOCUMENT MAY BE COPIED OR OTHERWISE REPRODUCED WITHOUT THE PROOR WITHOUT DOCUMENT. THE RECEPTENT ANOMALEDES AND ARRESS THAT THIS DOCUMENT CANNOT BE USED IN ANY MANNER ANDERES TO THE INTERSITS OF FAITON AND THAT NO PORTION OF THIS DOCUMENT MAY BE COPIED OR OTHERWISE REPRODUCED WITHOUT THE PROOR WITHOUT DOCUMENT OF THIS DOCUMENT. © 2011 Eaton Corporation - All Rights Rese A2

reaker		B (Ratings at tl	ell)	For Single Unit Maintenance Bypass Switch (MBS)	Common M Bypass	llel Units laintenance Switch BS)		
Auxiliary Switches	Rating	Separate Battery Configration (UPM Bttery)	-	Trip Device (Shunt Trip)	Auxiliary Switches	Rating	Rating	Auxiliary Switches
Qty	VDC	Α	А	VDC	Qty	А	А	Qty
2	500	63	125	24	1	36	36 x N	1
2	500	63	125	24	1	45	45 x N	1
2	500	63	125	24	1	68	68 x N	1
2	500	63	125	24	1	91	91 x N	1
2	500	63	125	24	1	136	136 x N	1