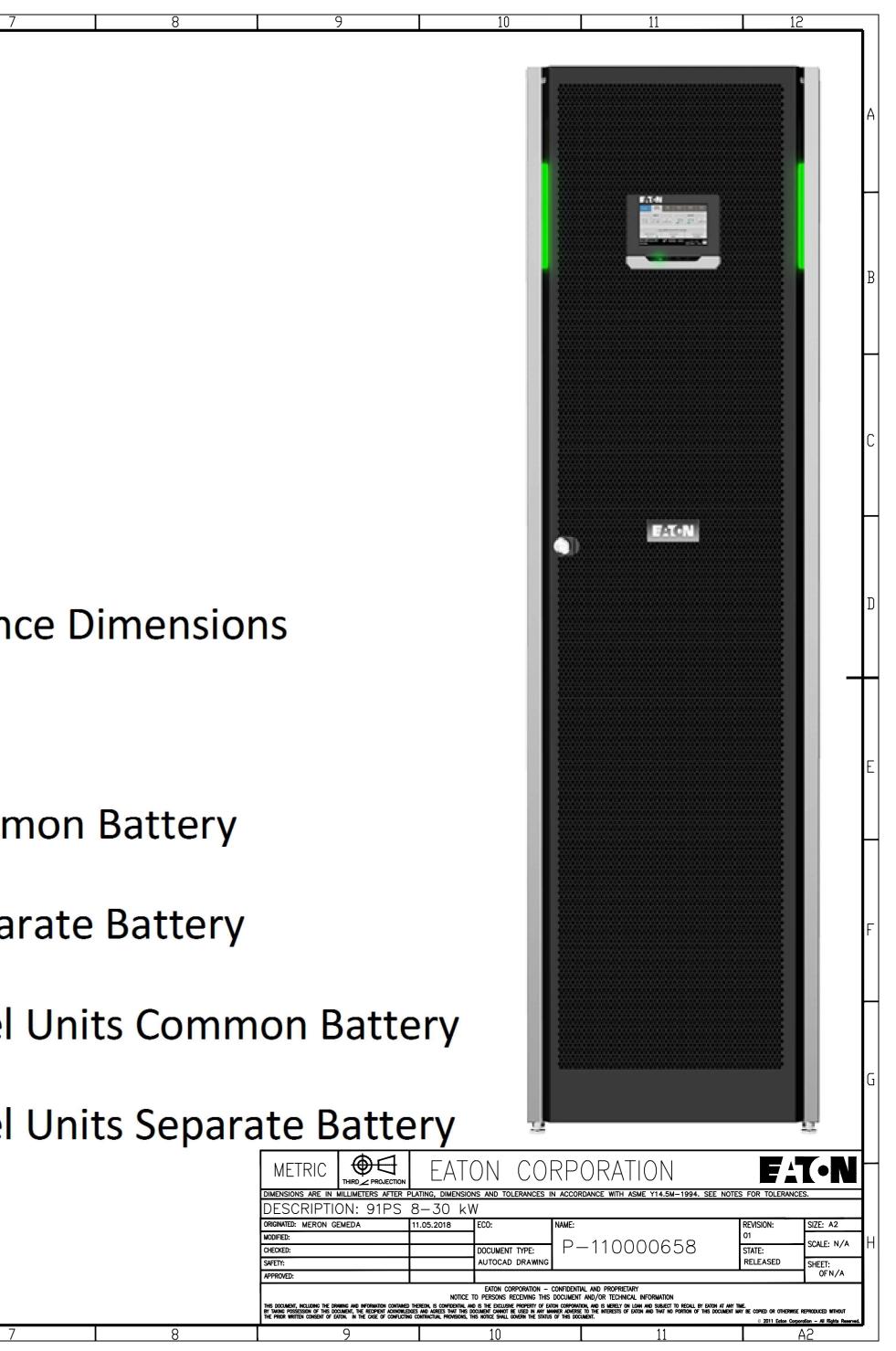
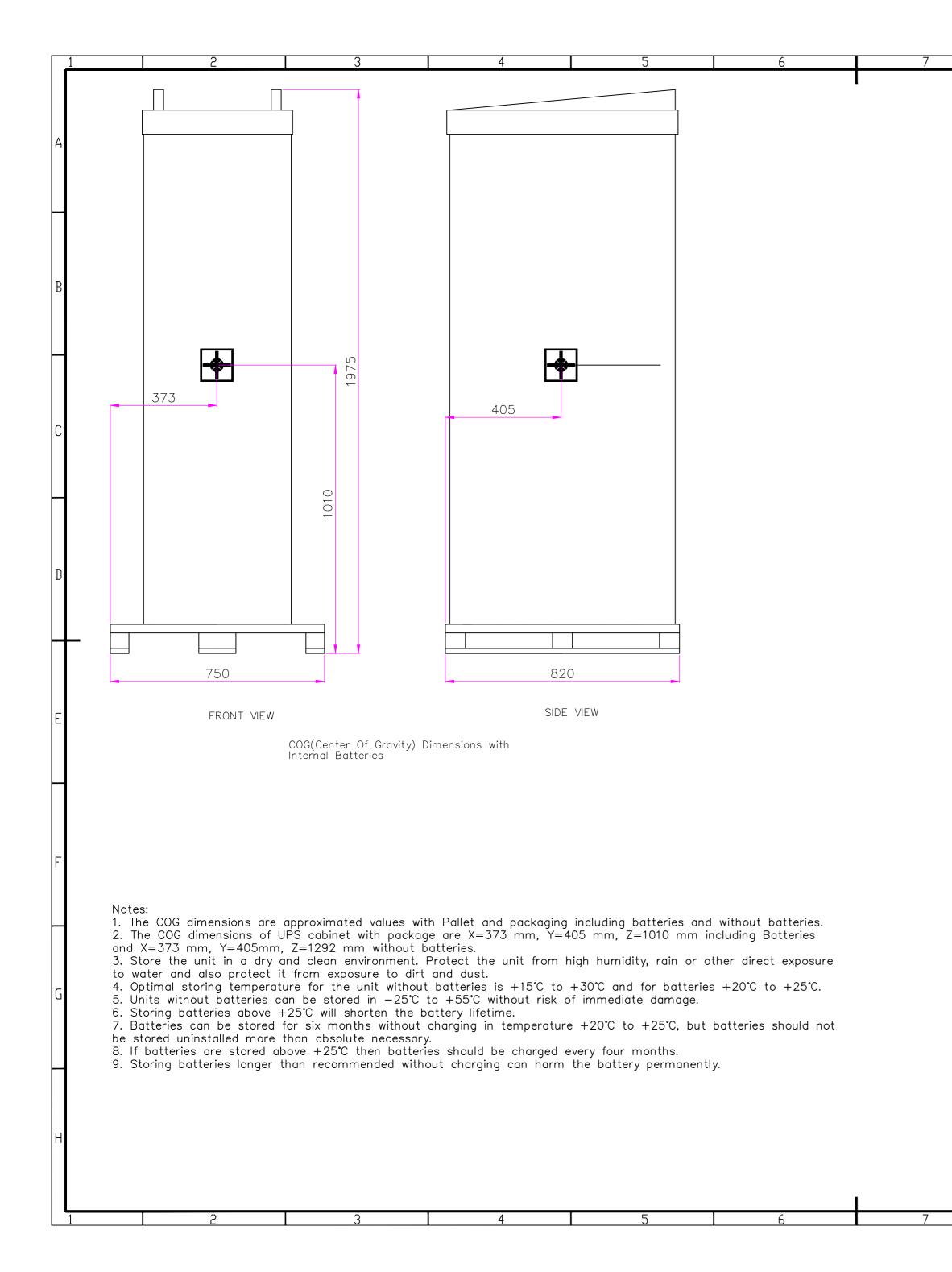
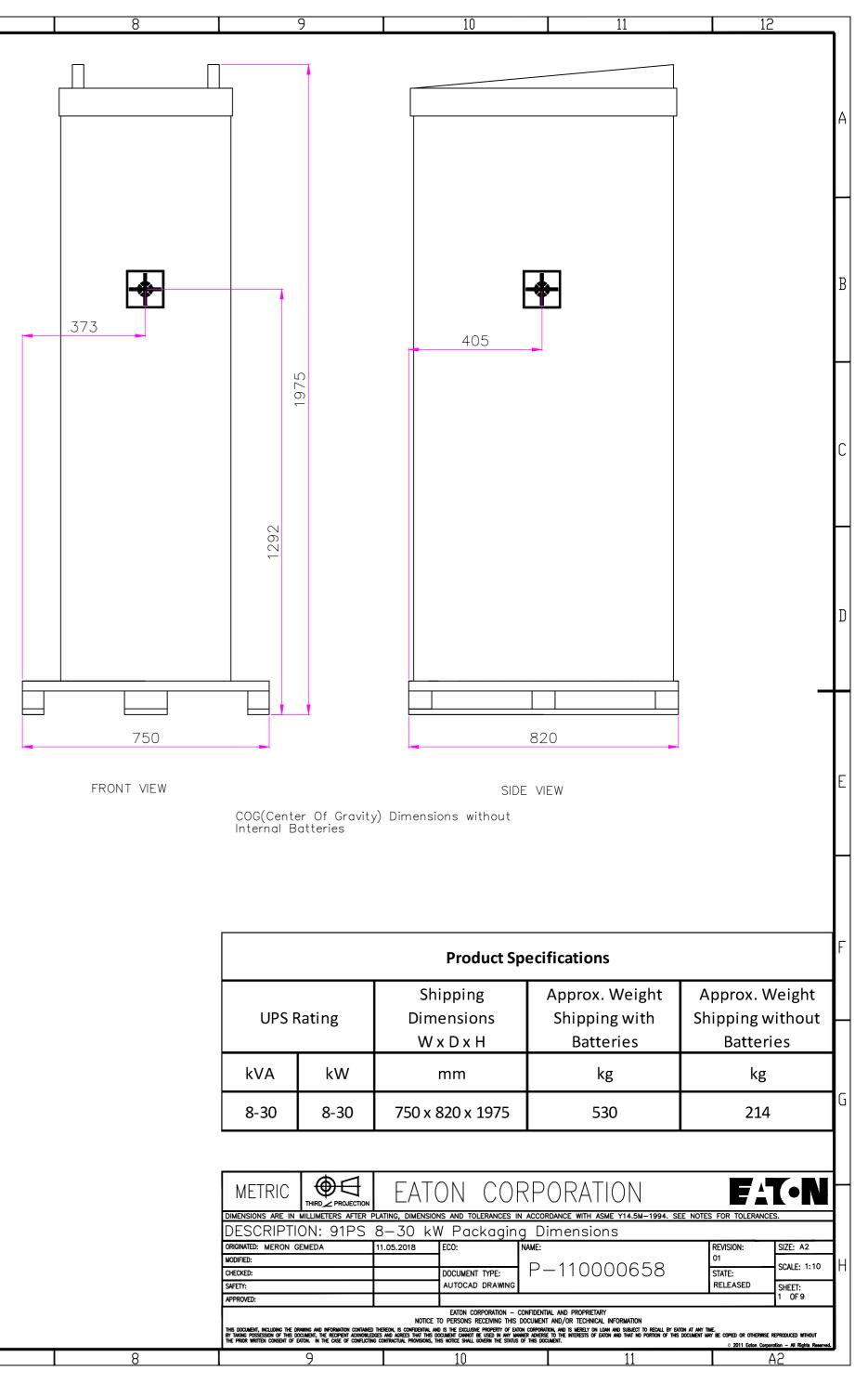
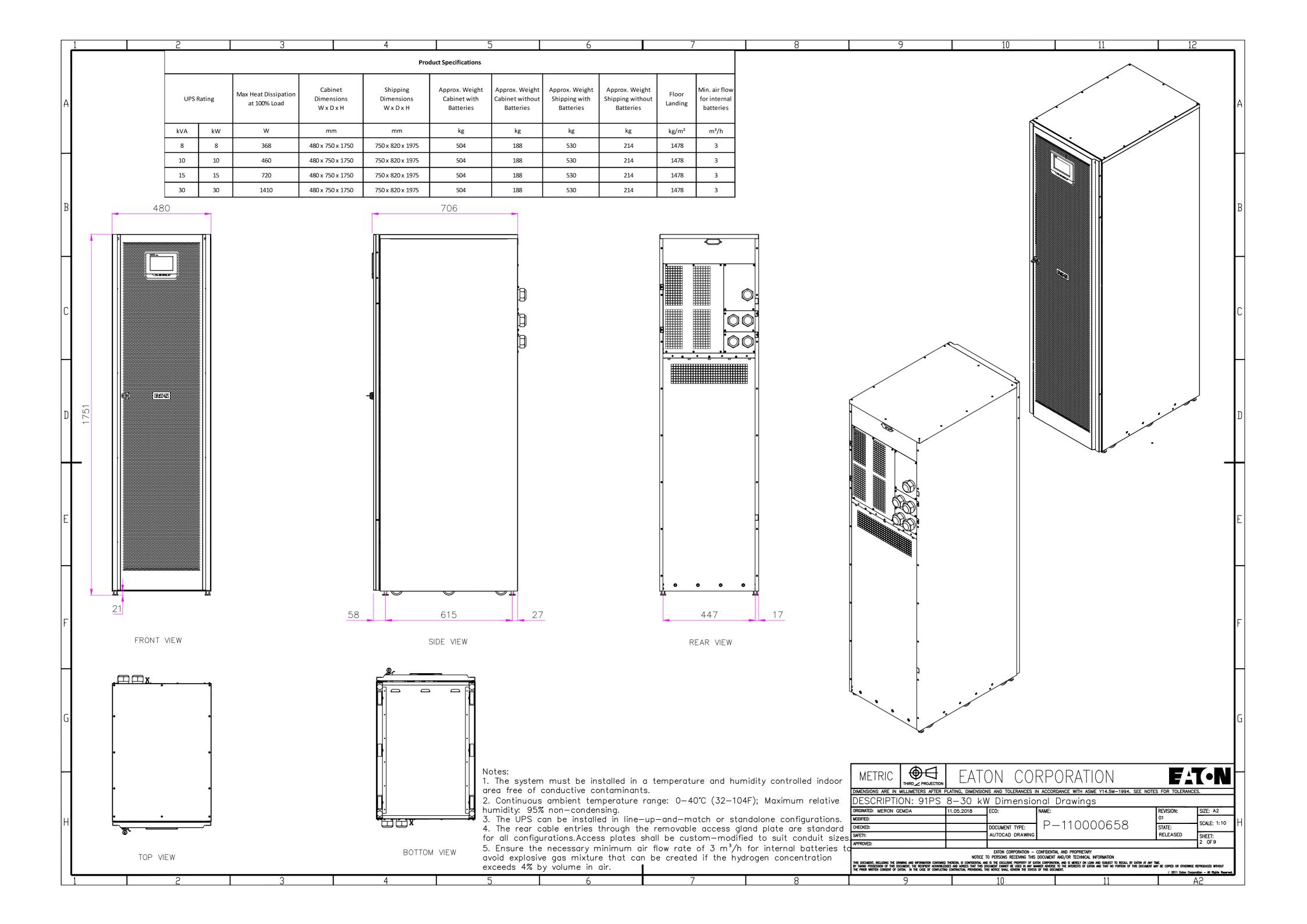
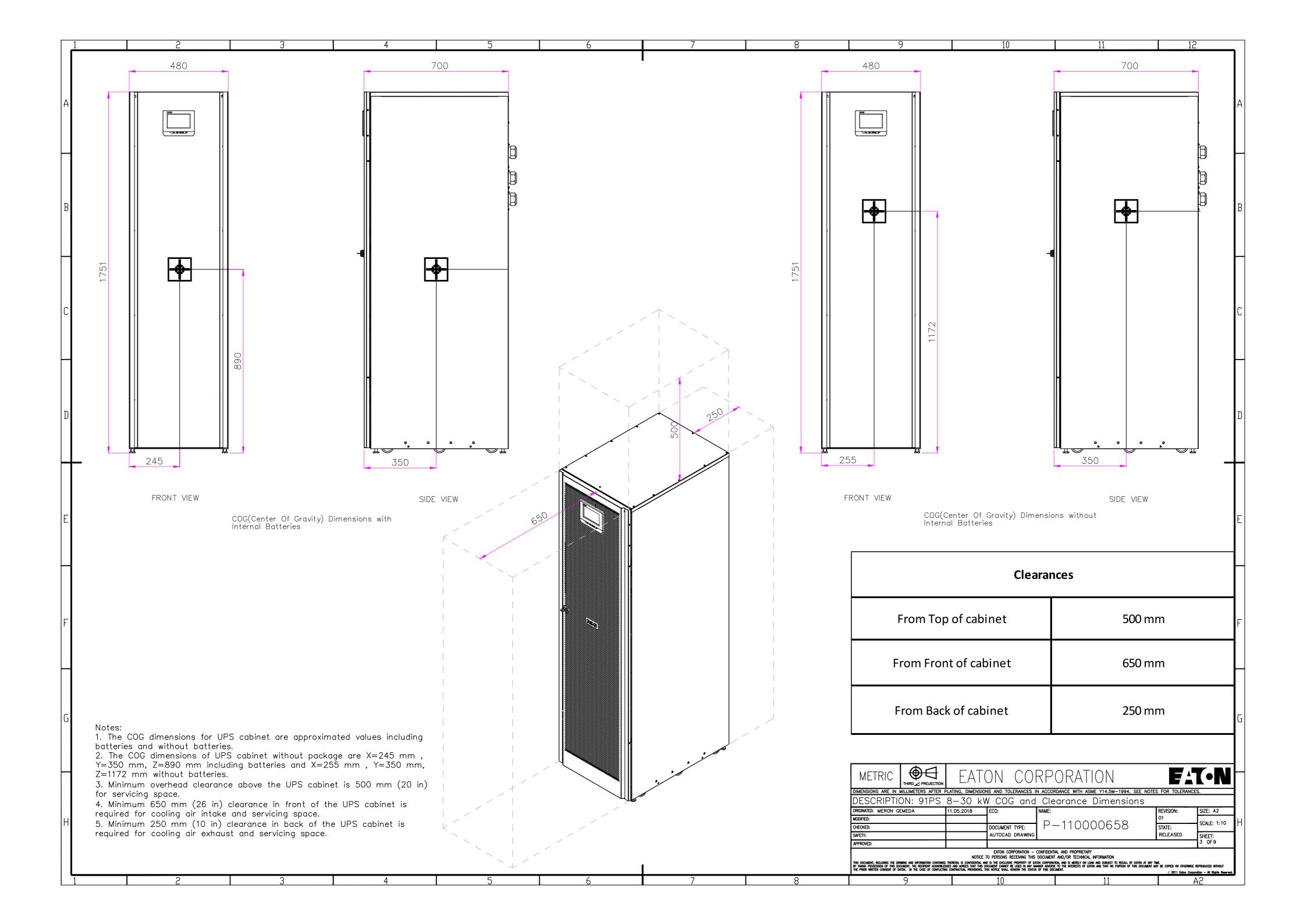
		2	3	4	5	6	7
ł	Α						
]	3	Рои	rering Business Wor	ldwide			
	SITE F	PLAN	NING DATA	91PS 8-	30 kW		
(	Page	1	Packaging	g Dimens	sions		
	Page	2	Dimensio	nal Drav	vings		
]	Page	3	COG(Cen	ter Of G	iravity)	and Cle	aran
E	Page	4	Custome	r Conne	ctions		
	Page	5	Electrical	Wiring	of Sing	le Unit (	Comn
F	Page	6	Electrical	Wiring	of Sing	gle Unit	Sepa
	Page	7	Electrica	l & Signa	al Wiri	ng of Pa	rallel
	Page	8	Electrica	l & Signa	al Wiri	ng of Pa	rallel
ł	Page	9	Product	Specific	ations		
	1	2	3	4	5	6	7

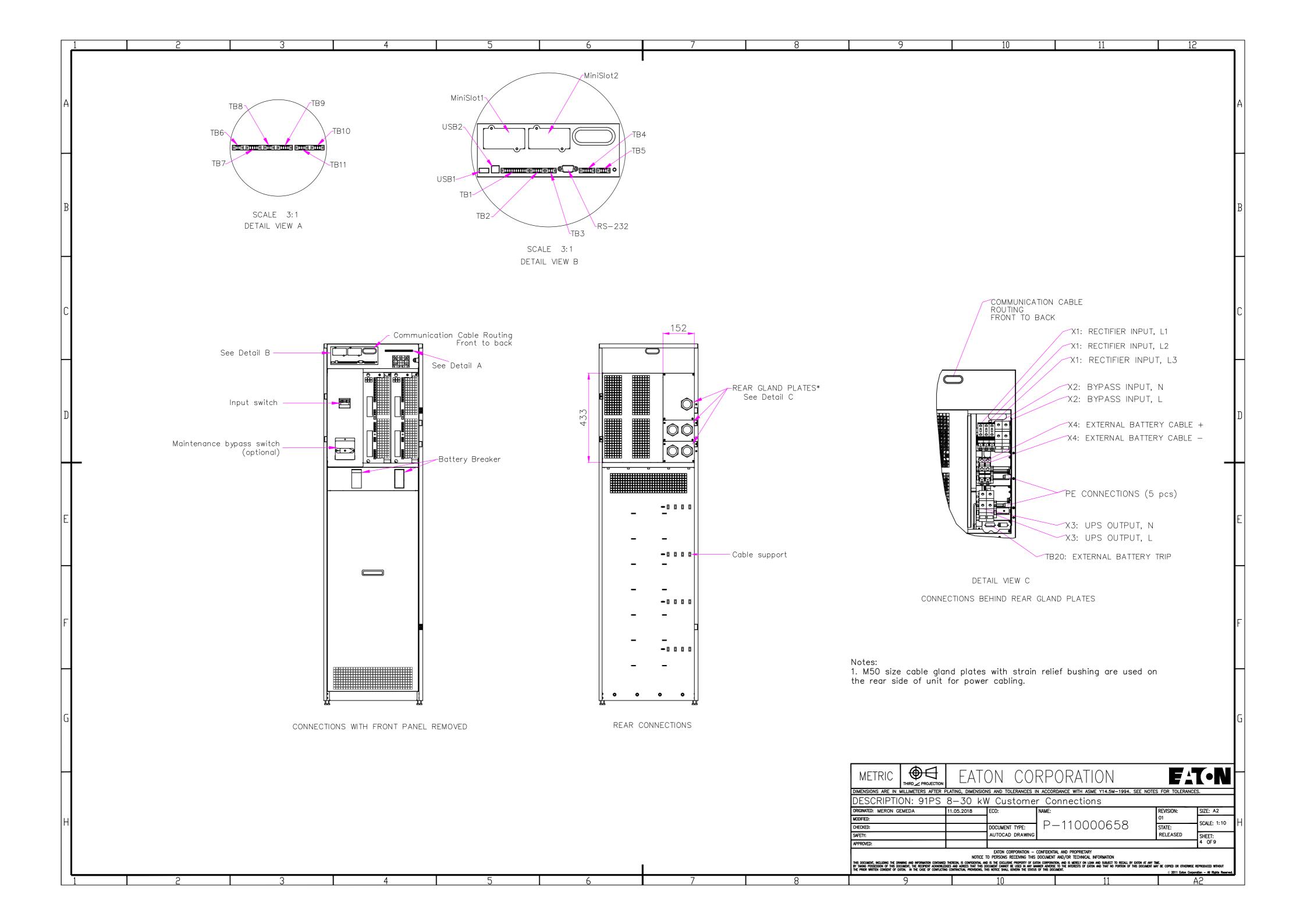


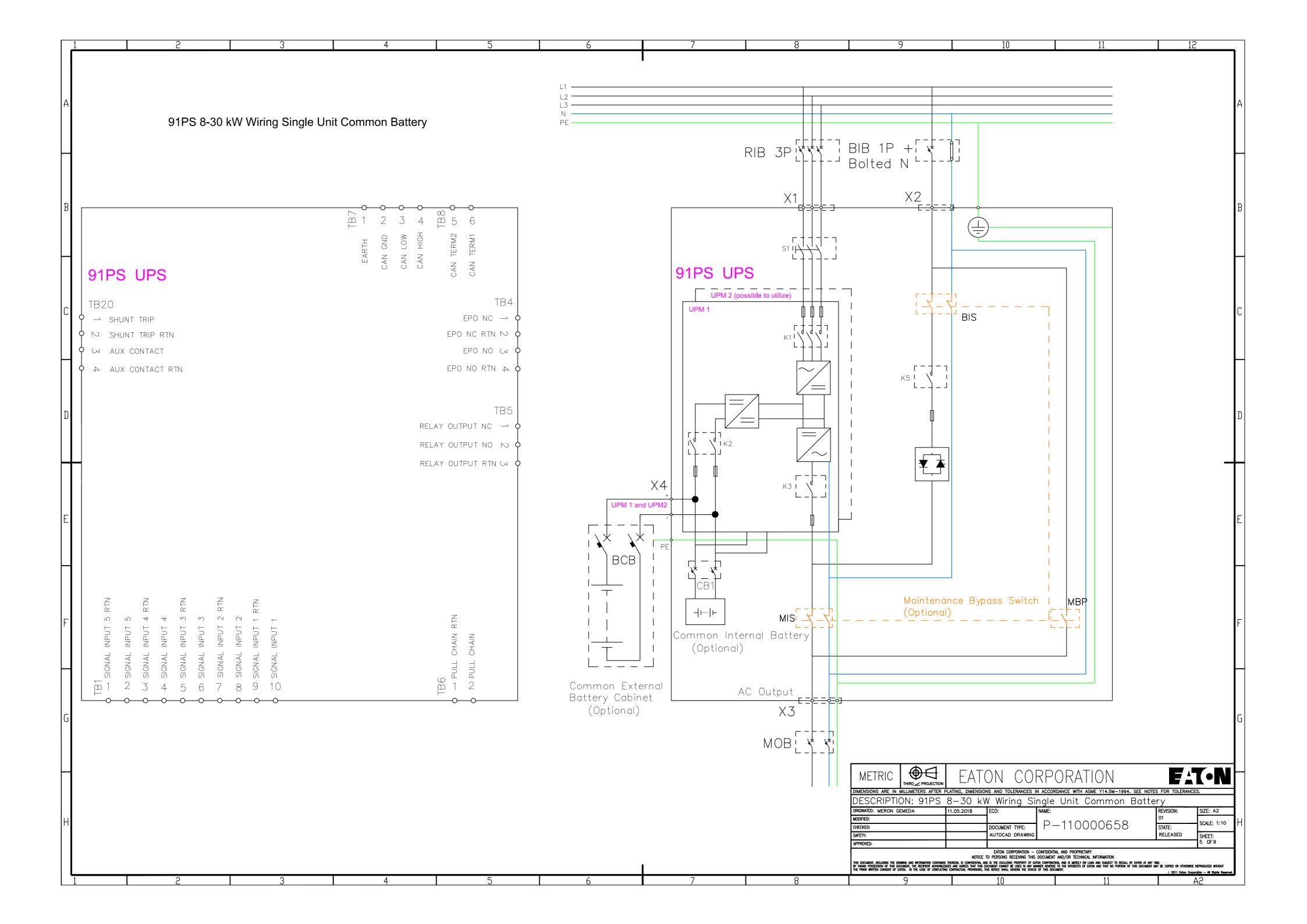




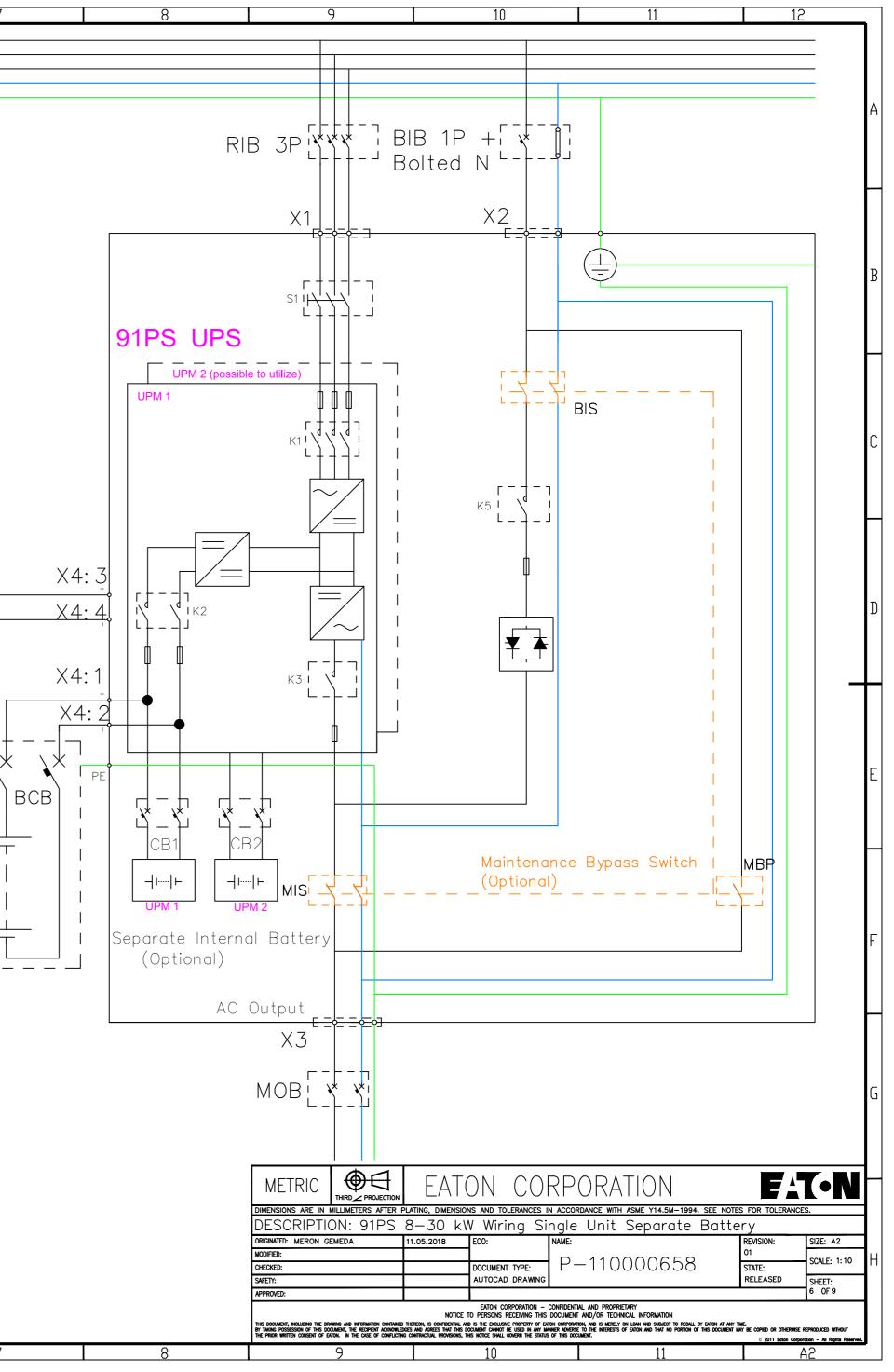


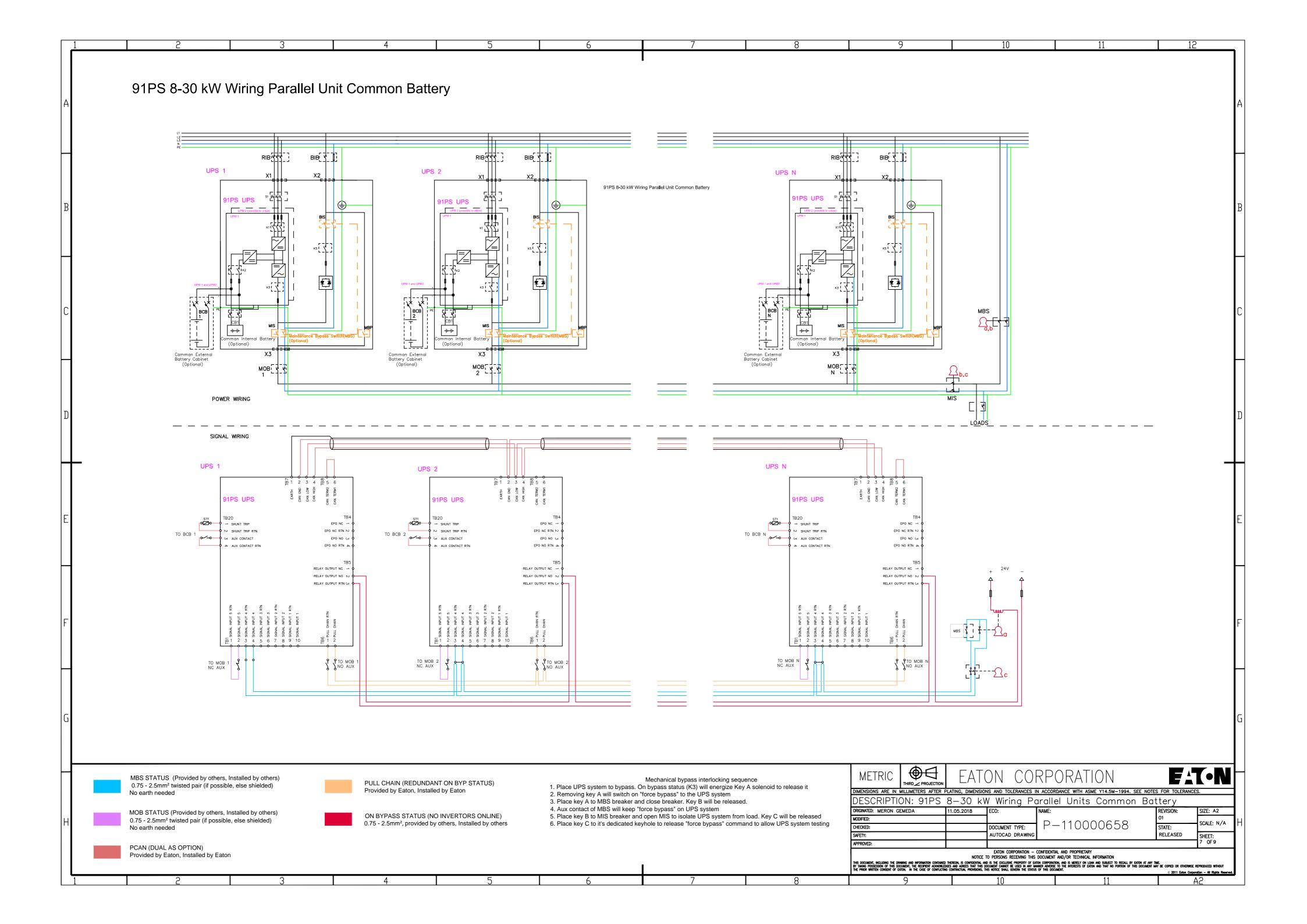


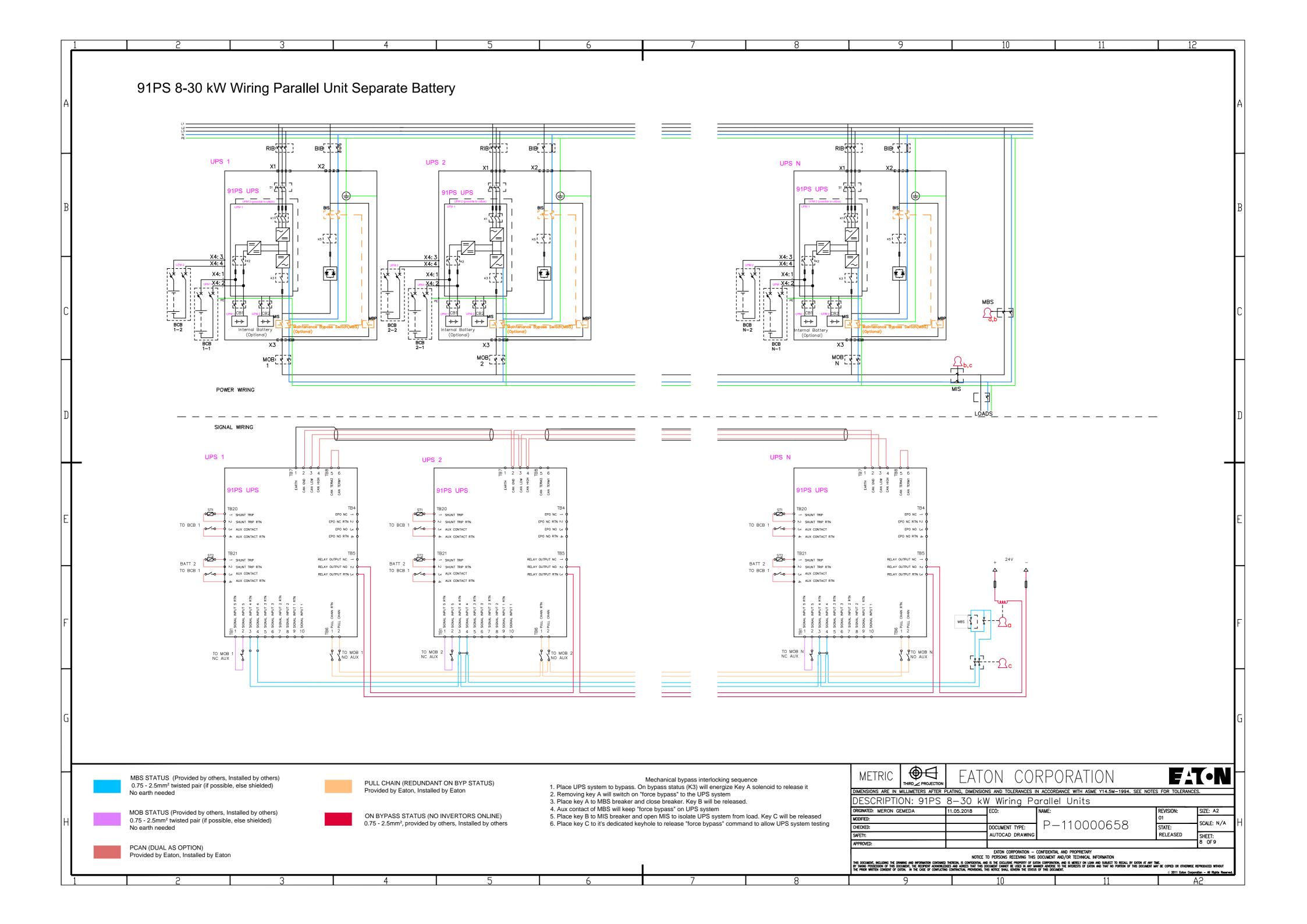




Γ	_1	2	3	4	5	6 7
1	4	91PS 8-30	) kW Wiring Single Un	nit Separate Battery		L1 L2 L3 N PE
-	В	91PS UPS		EARTH TB7 CAN GND 7 0 CAN LOW 2 0	CAN HIGH F CAN TERM2 CA CAN TERM1 0 0	
(	C	TB20 → SHUNT TRIP N SHUNT TRIP RTN G AUX CONTACT + AUX CONTACT RTN			TB4 EPO NC → EPO NC RTN N EPO NO G EPO NO RTN →	
	D	TB21 TB21 SHUNT TRIP SHUNT TRIP RTN AUX CONTACT AUX CONTACT RTN			TB5 Relay output nc → Relay output no N Relay output RTN G	
1						BCB   
1	-	SIGNAL INPUT SIGNAL INPUT SIGNAL INPUT SIGNAL INPUT SIGNAL INPUT	<ul> <li>O) SIGNAL INPUT 3</li> <li>U SIGNAL INPUT 2 RTN</li> <li>OS SIGNAL INPUT 2</li> <li>U SIGNAL INPUT 1 RTN</li> <li>U SIGNAL INPUT 1</li> </ul>		TB6 - PULL CHAIN RTN N PULL CHAIN	
(	ī		0-0-0-0		O	
	+	2	3	4	5	6 7







							91PS 8-3	30 kW UP	S Site	Plann	ning D	ata								
									Produ	ct Specificati	ions									
	Rectifie		3P Rectifier Input Breaker (RIB)		Bypass AC	1P+Bolted N Bypass Input Breaker (BIB)			2P Inverter AC output Breaker MOB		Battery Breaker (BCB) (Ratings at the end of discharge, 1.67 V/cell)				For Single Unit Maintenance Bypass Switch (MBS)	Common Maintenance				
UPS R	ating	AC Input	ut Nominal Ma	Maximum Current	Input	Nominal Current at 230 V Input	Maximum Current at 15% under voltage	Integrated Bypass Fuse	AC Output	Output Current	Inverter Short Circui Current	Auxiliary t Switches		Separate Battery Configration (UPM Bttery)	Common Battery Configration (UPS Battery)	Trip Device (Shunt Trip)	Auxiliary Switches	Rating	Rating	Auxiliary Switches
kVA	kW	v	А	А	V	А	А	Туре	V	А	A / 300 ms	Qty	VDC	A	А	VDC	Qty	А	А	Qty
8	8	400	12	18	230	36	41	3 x 200FEE (parallel)	230	36	310	2	500	63	125	24	1	36	36 x N	1
10	10	400	15	22	230	45	51	3 x 200FEE (parallel)	230	45	310	2	500	63	125	24	1	45	45 x N	1
15	15	400	23	29	230	68	77	3 x 200FEE (parallel)	230	68	310	2	500	63	125	24	1	68	68 x N	1
20	20	400	30	38	230	91	102	3 x 200FEE (parallel)	230	91	310	2	500	63	125	24	1	91	91 x N	1
30	30	400	45	57	230	136	153	3 x 200FEE (parallel)	230	136	310	2	500	63	125	24	1	136	136 x N	1
			Minim	um recomme	nded cable an	d fuse sizes (con	nmon battery)			] [			Minim	um recommen	ded cable and	fuse sizes (sep	arate battery)			
S RATING	kW Re	ctifier cable [mm²]	Rectifier Fu [A]	ISE Bypas output o [mm	able Bypass			Line Battery Fuse [A]	EXT BATT PE Cable [mm²]		ATING KW	Rectifier cable [mm²]	Т	Bynass	, Bypass Fi ble		e POS. & NE	EG. Line Battery <sup>2</sup> ] [A]		BATT PE e [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	3 16	35	125	16	1	10	4	20	16	63	16	16	63		16
15		10	32	25	80	) 16	35	125	16	1	15	10	32	25	80	16	16	63		16
20		10	40	35		0 16	35	125	16	┨										
		16	63	70				125	16	┨ ├───	20 30	10	40 63	35 70	100	16 35	16			16

Notes:

Rectifier/Bypass/Output

Solid/stranded wire: 70 mm<sup>2</sup>

Stranded wire with ferrule: 50 mm<sup>2</sup>

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

EXT. Battery (separate)

Solid/stranded wire: 50 mm<sup>2</sup>

Stranded wire with ferrule: 35 mm<sup>2</sup>

EXT. Battery (common)

Solid/stranded wire: 95 mm<sup>2</sup>

Stranded wire with ferrule: 70

mm<sup>2</sup>

2. Inverter AC output current calculation: At 100% rated output load.

Bypass/Output

Solid/stranded wire: 95 mm<sup>2</sup>

Stranded wire with ferrule: 95 mm

3. The system must be installed on a level floor suitable for computer or electronic equipment.

Maximum conductor cross section

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.

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.

 $\Theta$ EATON CORPORATION F<sub>1</sub>T•N METRIC 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: RELEASED AUTOCAD DRAWING SHEET: 9 OF 9 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 CONFIDENTIAL AND IS THE EXCLUSIVE PROPERTY OF EATION COMPARITION, AND IS MERELY ON LOW AND SUBJECT TO RECALL BY EATION AT ANY TIME. BY TANING PROSESSION OF THIS DOCUMENT, THE RECEPTED FACIONAL DEES AND ARRESS THAT THIS DOCUMENT CANNOT BE USED IN ANY MANNER AND FREE TO THE INTERSITS OF EATION AND THAT NO PORTION OF THIS DOCUMENT WAY BE COPIED OR OTHERWISE REPRODUCED WITHOUT THE PROOR WRITEND CONSENT OF STOLEN. IN THE CASE OF COMPLETING CONTINUES AND ARRESS THAT THIS DOCUMENT. © 2011 Eaton Corporation - All Rights Rese A2

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