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d	SITE F	PLANNING DATA	Eaton 91PS 8-10 kW
С	Page	1	Packaging Dimensions
	Page	2	Dimensional Drawings
D	Page	3	COG(Center Of Gravity) and
	– Page	4	Customer Connections
E	Page	5	Electrical Wiring of Single Ur
	Page	6	Electrical Wiring of Single Ur
F	Page	7	Electrical & Signal Wiring of
	Page	8	Electrical & Signal Wiring of
G	Page	9	Product Specifications(3:1)
	Page	10	Product Specifications(1:1)

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- **Clearance Dimensions**
- nit(3:1)
- nit(1:1)
- Parallel Units(3:1)
- Parallel Units(1:1)

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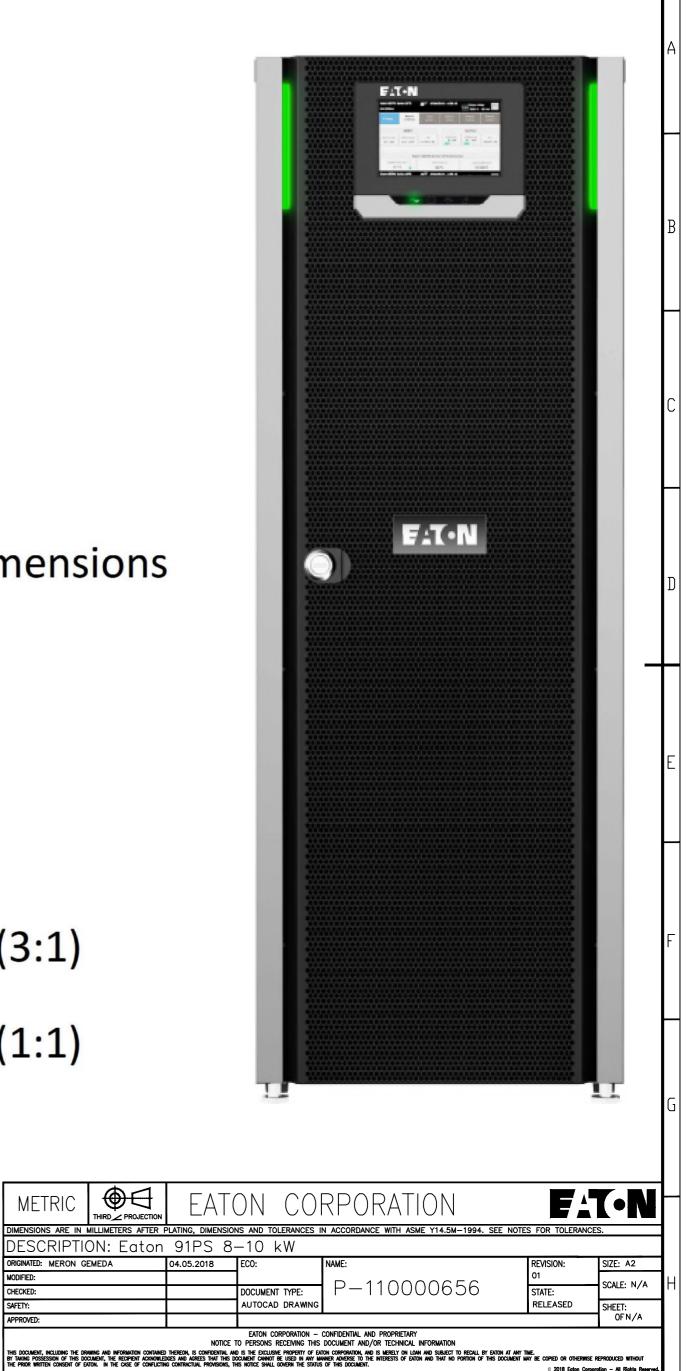
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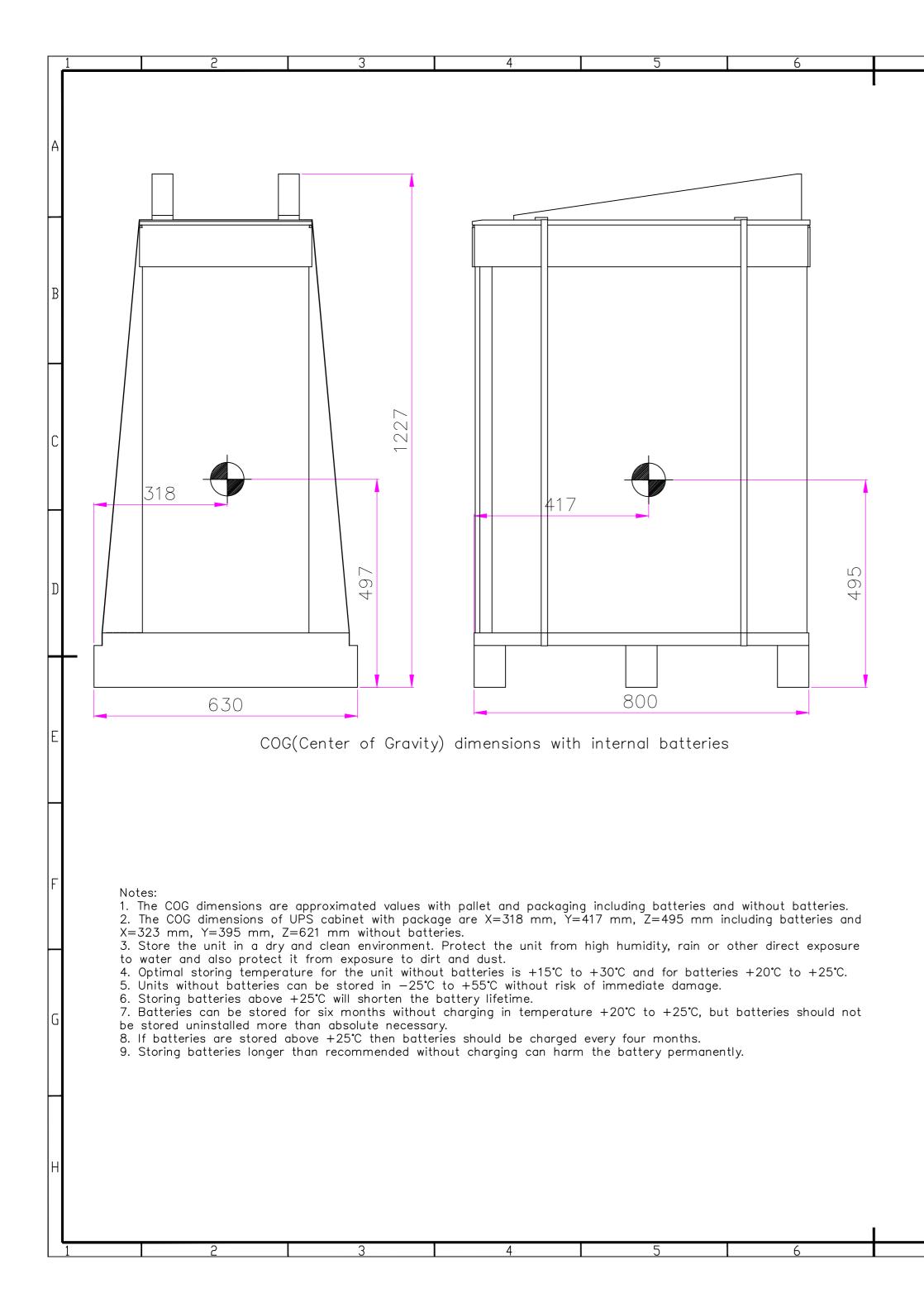
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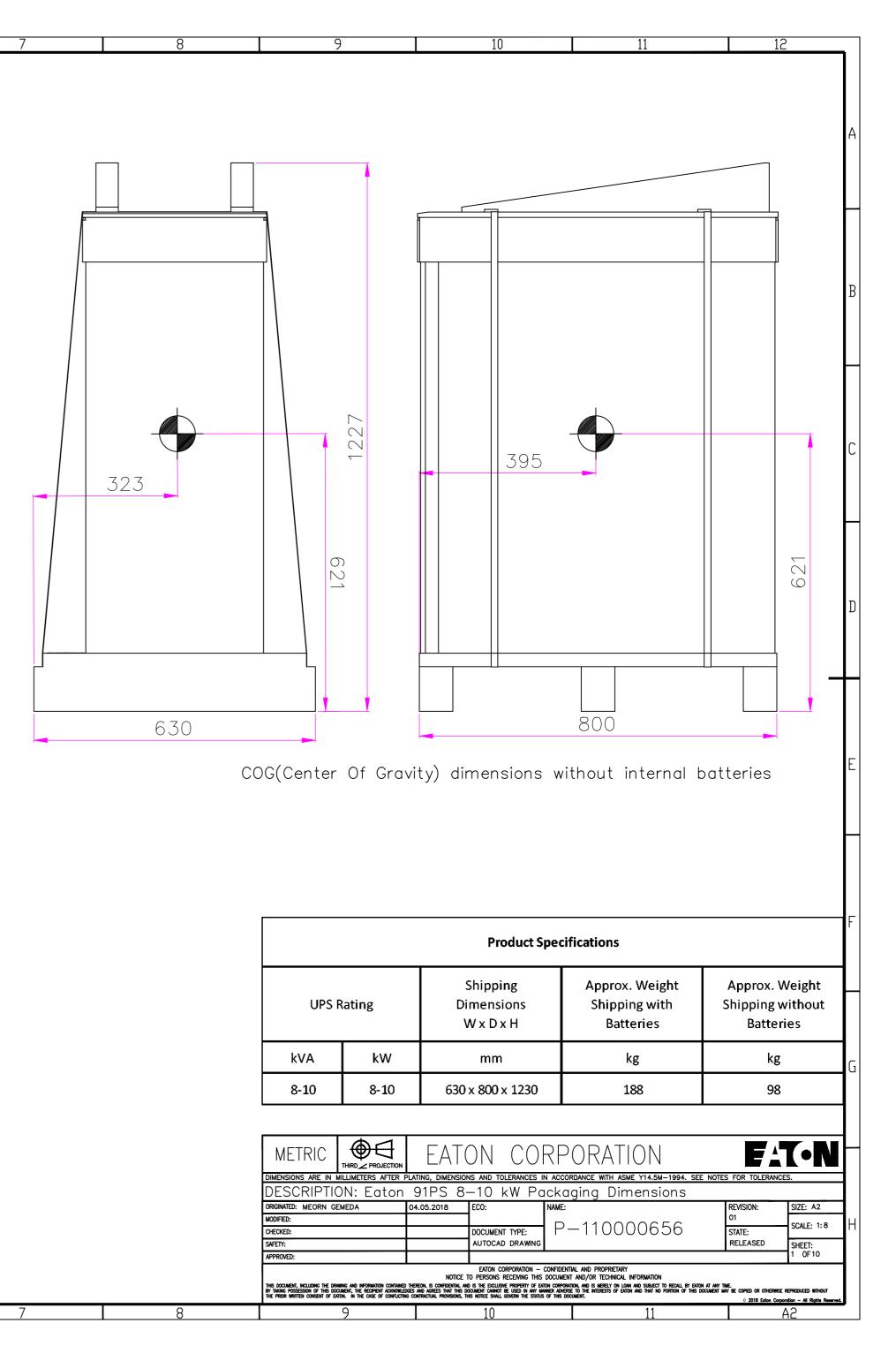
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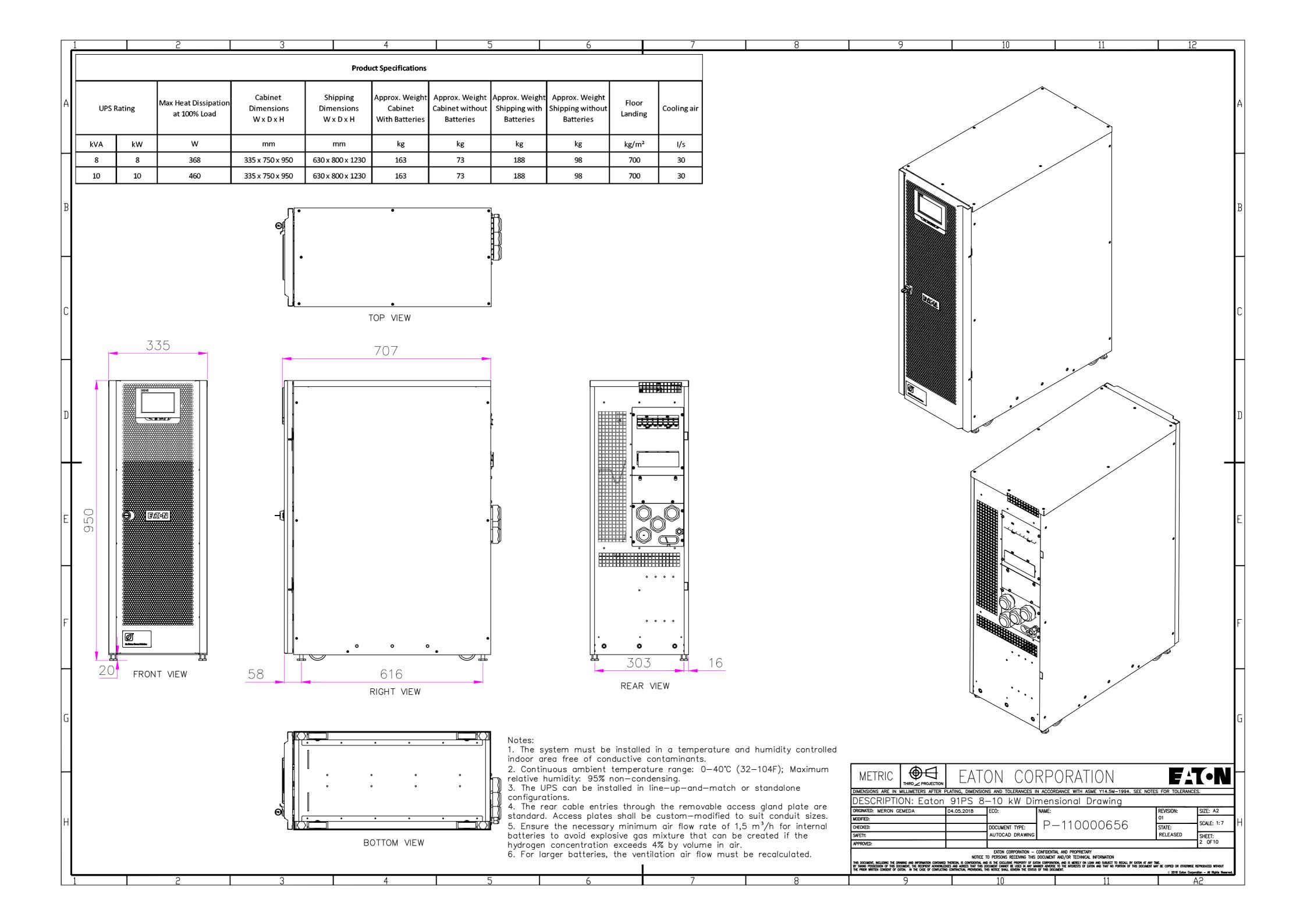
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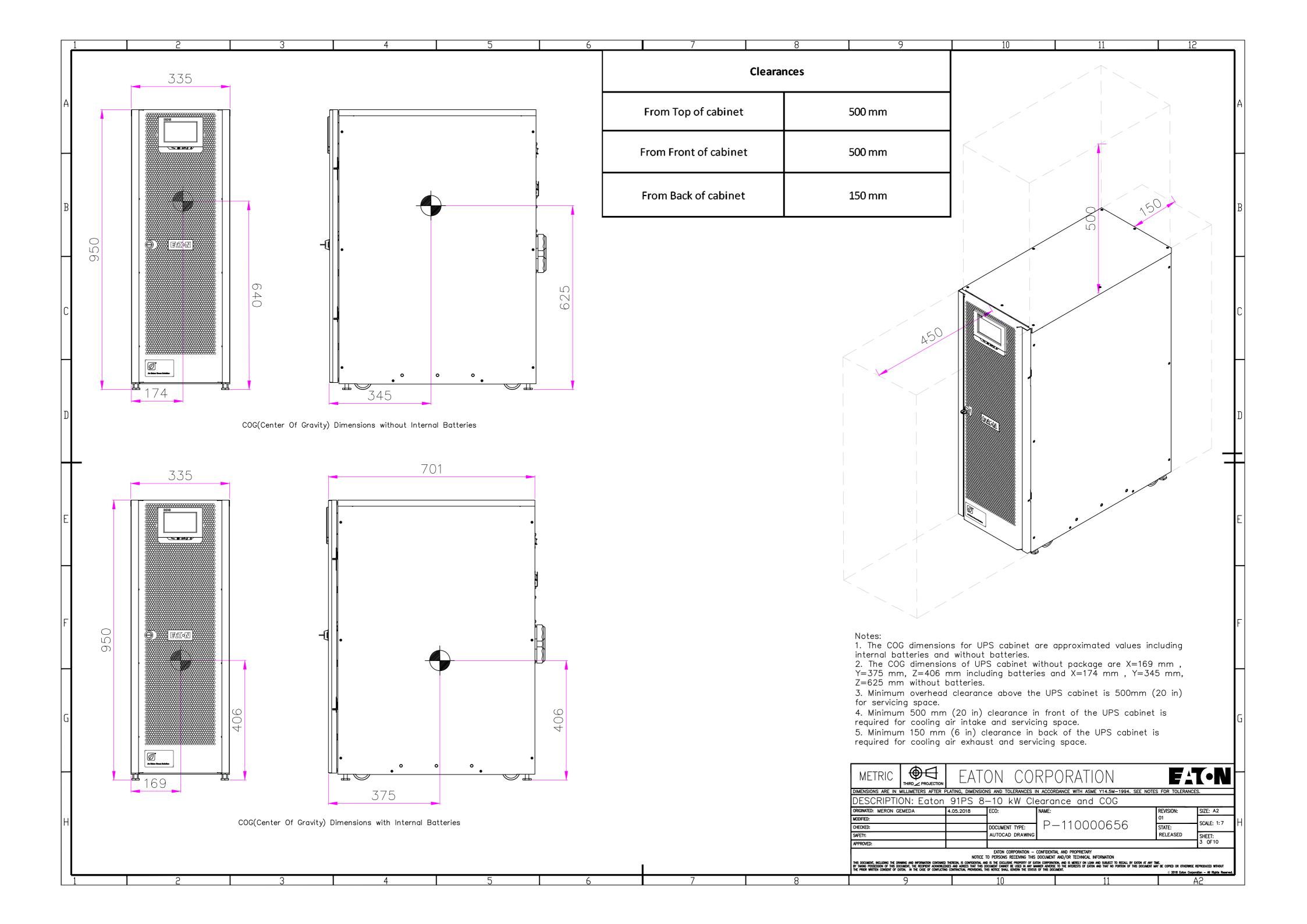


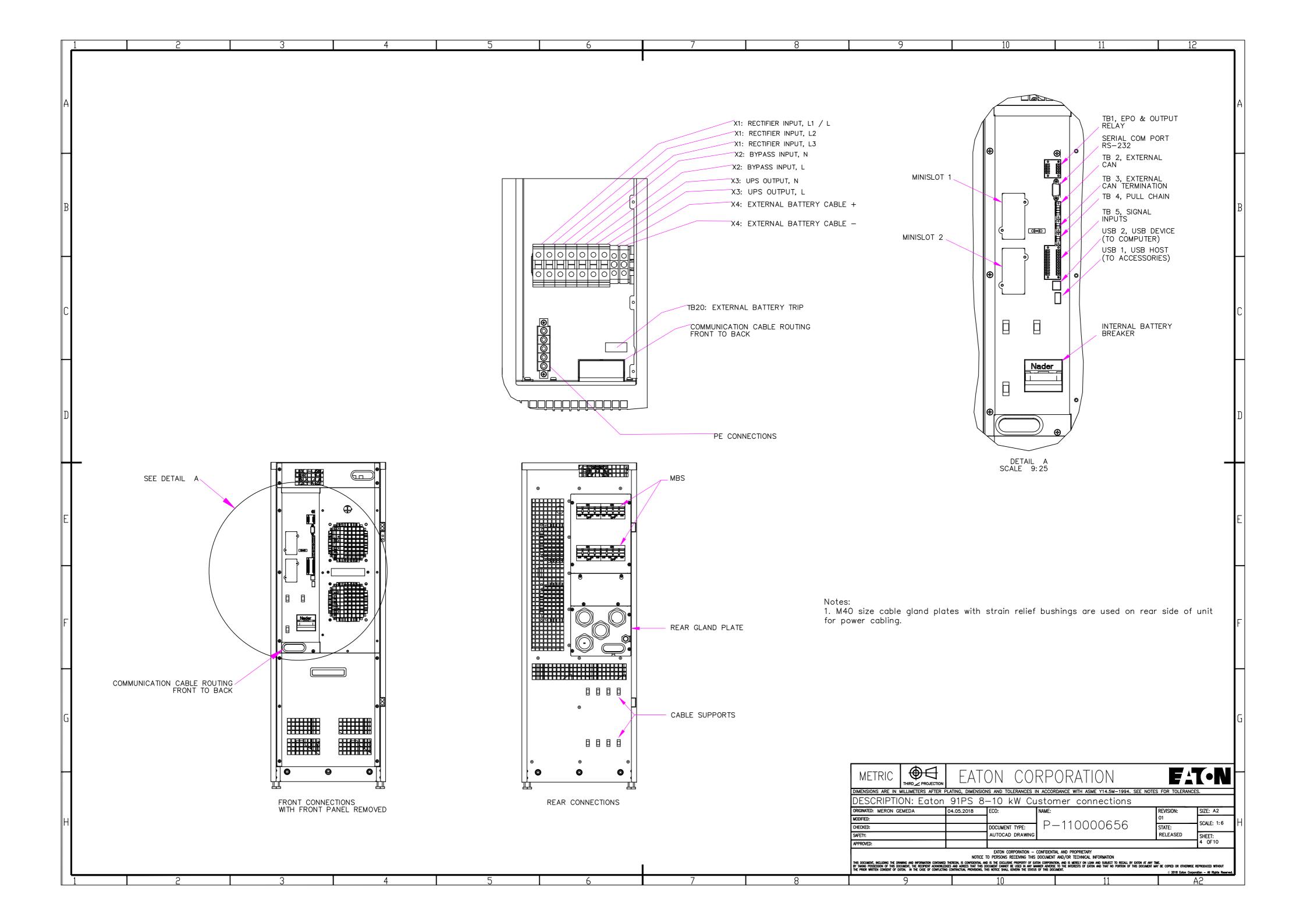
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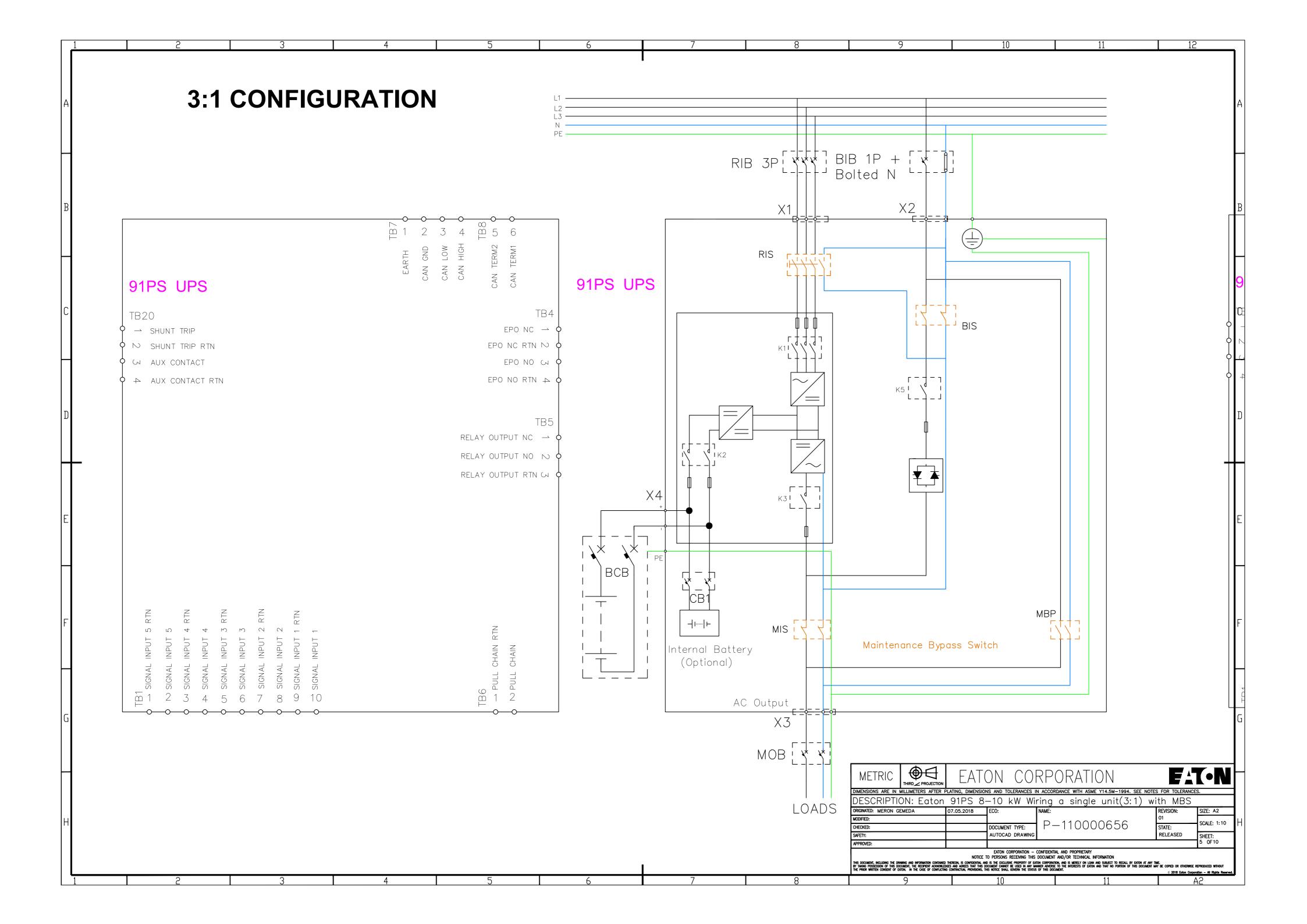


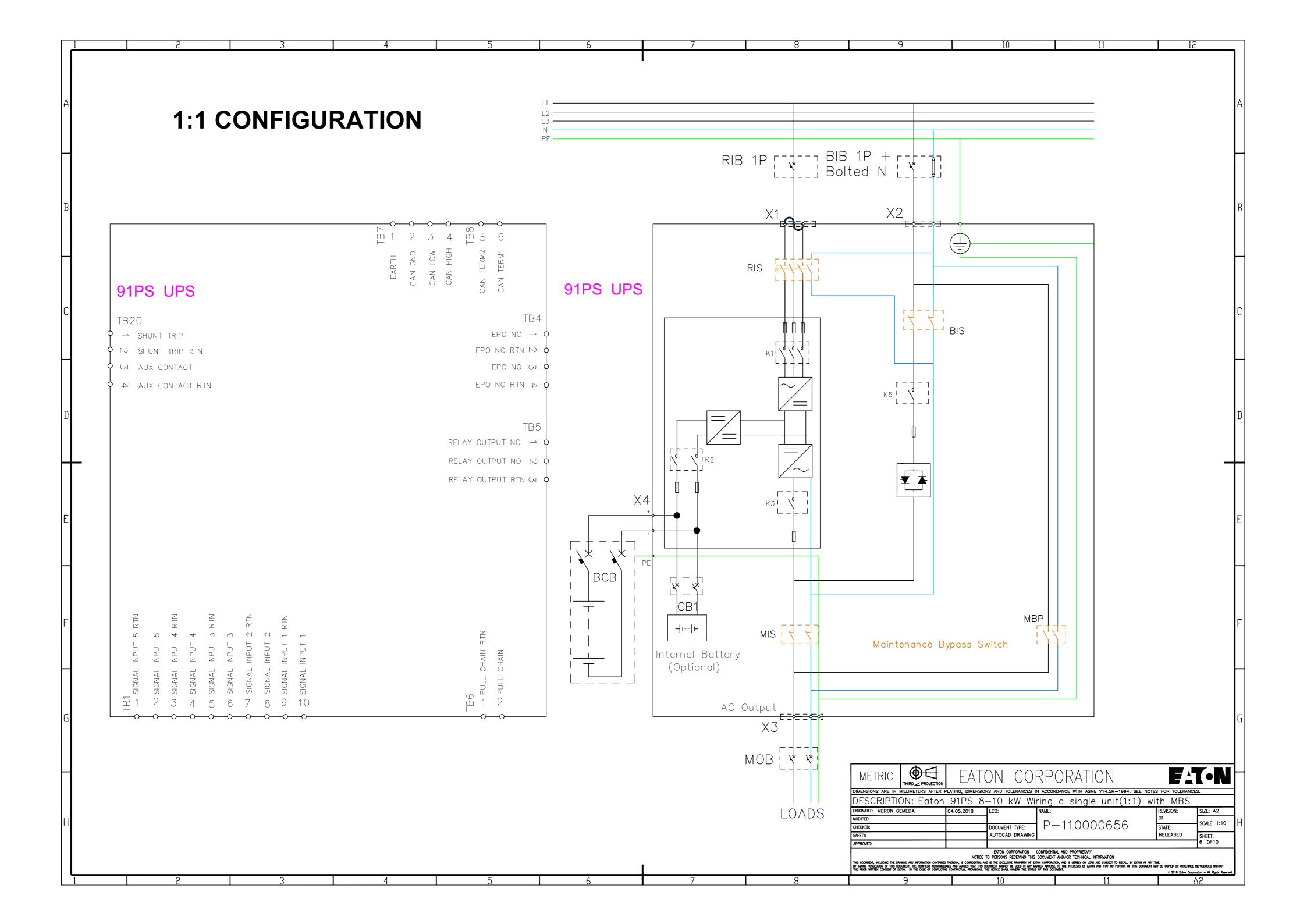


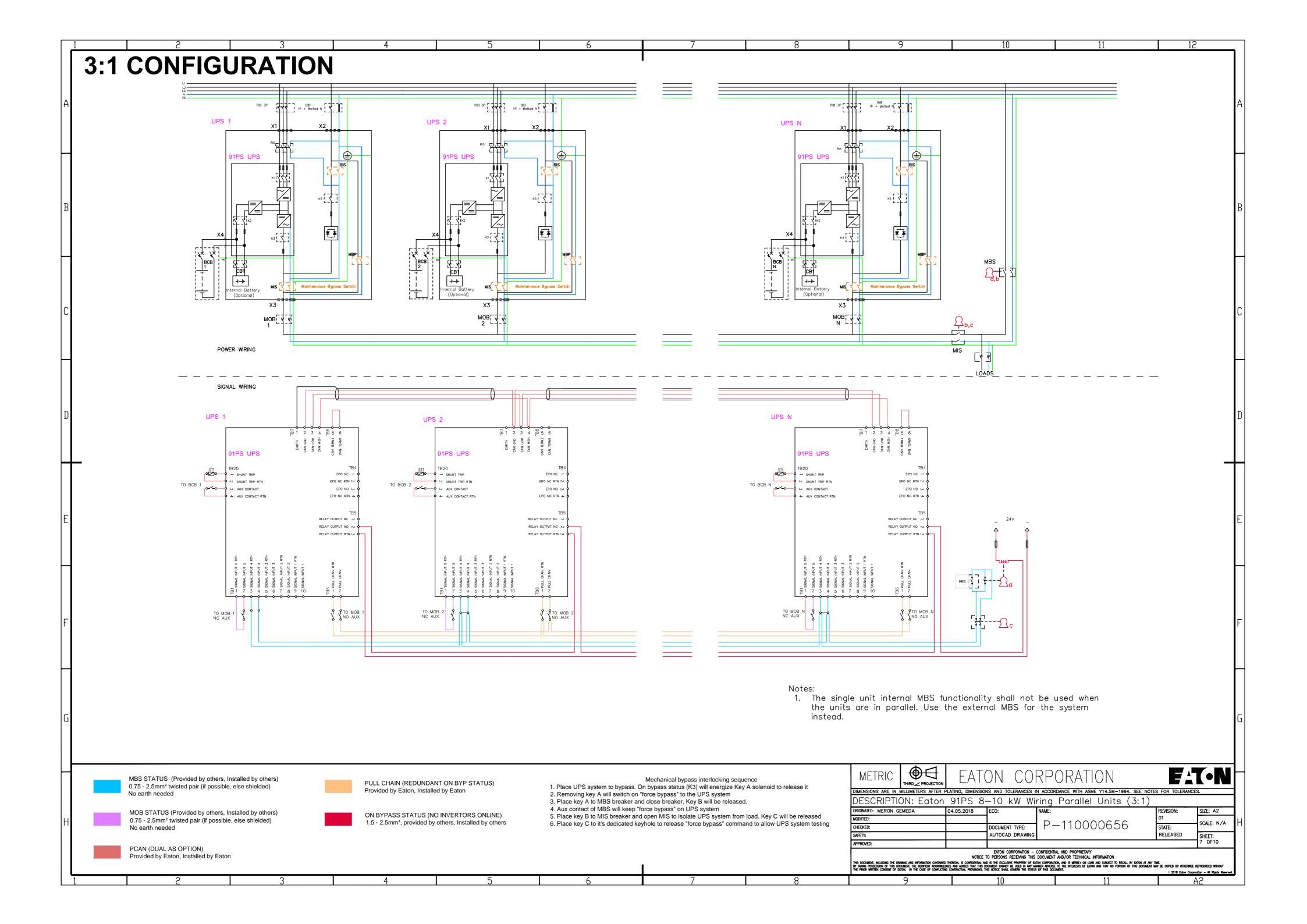


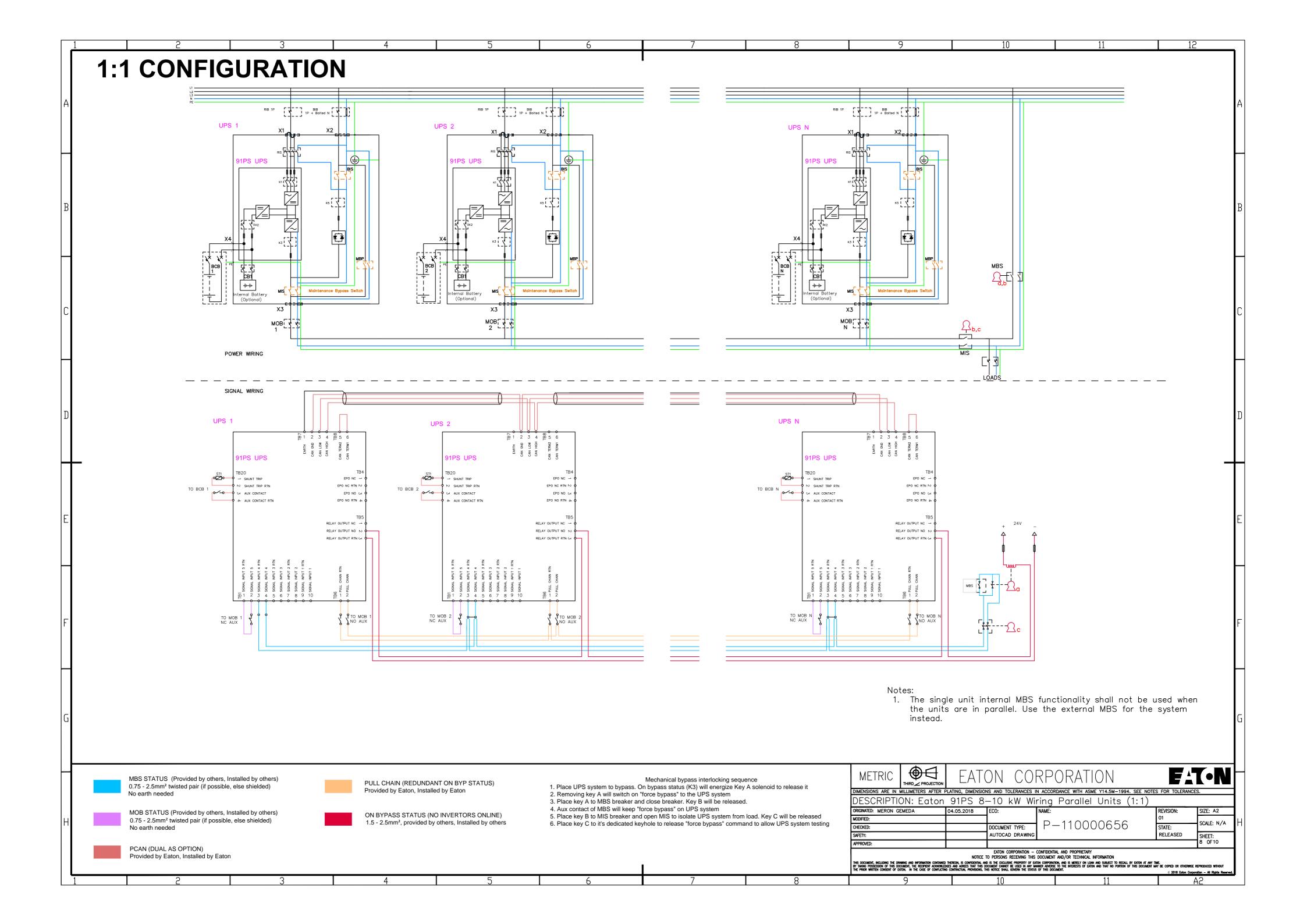












Eaton 91PS 8-10 kW (3:1) UPS Site Planning Data

											Prode	uct Specification	s										
	UPS Rating		(RIB)		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 M	arallel Units aintenance Bypass Switch (MBS)		
			AC Input	AC Input			AC Input Nomina	Nominal Current	Maximum Current	Input	Nominal Current at 230 V Input	Maximum Current at 15% under voltage	Integrated Bypass Fuse	AC Output	Output	Short Circuit	Auxiliary Switches	Rating	Separate Battery Configration (UPM Bttery)	Common Battery Configration (UPS Battery)	· · · ·	Auxiliary Switches	Rating
kV	/A	kW	v	A	А	v	Α	А	Туре	v	A	A / 300 ms	Qty	VDC	А	A	VDC	Qty	А	А	Qty		
	8	8	400	12	14	230	35	41	3 x 80ET (parallel)	230	36	156	2	500	NA	32	24	1	36	36 x N	1		
1	10	10	400	15	18	230	43	51	3 x 80ET (parallel)	230	45	156	2	500	NA	32	24	1	45	45 x N	1		

	Minimum recommended cable and fuse sizes													
RAT	PS 'ING W	Rectifier cable [mm ²]	Rectitier Fuse	Bypass, output cable [mm²]	Bypass Fuse [A]	PE Cable [mm²]	POS. & NEG. Line [mm²]	Battery Fuse [A]	EXT BATT PE Cable [mm²]					
8	8	2,5	16	10	50	10	10	32	10					
1	.0	4	20	16	63	16	10	32	10					

Notes:

Rectifier AC input current calculations: Nominal - 100% load without charging; Maximum - 100% load with maximum charging (Rectifier current limit).
 Inverter AC output current calculation: At 100% rated output load.
 The system must be installed on a level floor suitable for computer or electronic equipment.
 All wiring and installations must be in accordance with applicable National and Local Electric Regulations.

4

- 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.
- 7. 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.
 8. Specifications are subject to change.

8	9	10	11	12

Maximum conductor cross section									
Rectifier/Bypass/Output	EXT. Battery								
Solid/stranded wire: 50 mm ² Stranded wire with ferrule: 35 mm ²	Solid/stranded wire: 25 mm ² Stranded wire with ferrule: 16 mm ²								

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Eaton 91PS 8-10 kW (1:1) UPS Site Planning Data

											Proc	duct Specification	ns								
UPS F		ating	Rectifier	1 Rectifier In (R		Breaker Bypass AC		1P+Bolted N Bypass Input Breaker (er (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 Ma	rarallel Units laintenance Bypass Switch (MBS)	
	UPS Rating	ating	AC Input	Nominal Current	Maximum Current	Input	Nominal Current at 230 V Input	Maximum Current at 15% under voltage	Integrated Bypass Fuse	AC Output	Output Current	Inverter Short Circuit Current	Auxiliary Switches	Rating	Separate Battery Configration (UPM Bttery)	Common Battery Configration (UPS Battery)	Trip Device (Shunt Trip)	Auxiliary Switches	Rating	Rating	Auxiliary Switches
k	VA	kW	v	А	А	V	А	А	Туре	v	А	A / 300 ms	Qty	VDC	А	А	VDC	Qty	А	А	Qty
	8	8	230	37	44	230	35	41	3 x 80ET (parallel)	230	36	109	2	500	NA	32	24	1	36	36 x N	1
1	lo	10	230	46	55	230	43	51	3 x 80ET (parallel)	230	45	109	2	500	NA	32	24	1	45	45 x N	1

	Minimum recommended cable and fuse sizes												
UPS RATING kW	Rectifier cable [mm ²]	l Rectifier Fuse	Bypass, output cable [mm²]	Bypass Fuse [A]	PE Cable [mm²]	POS. & NEG. Line [mm²]	Battery Fuse [A]	EXT BATT PE Cable [mm²]					
8	10	50	10	50	10	10	32	10					
10	16	63	16	63	16	10	32	10					

Notes:

- Rectifier AC input current calculations: Nominal 100% load without charging; Maximum 100% load with maximum charging (Rectifier current limit).
 Inverter AC output current calculation: At 100% rated output load.
 The system must be installed on a level floor suitable for computer or electronic equipment.
 All wiring and installations must be in accordance with applicable National and Local Electric Regulations.
- 5. Rectifier AC input to UPS: (1) phase 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. 7. For UPS installation that utilizes single feed input, The input breaker should be configured according to the rated rectifier input current. 8. 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.
- 9. Specifications are subject to change.

8	9	10	11	12

Maximum conductor cross section									
Rectifier/Bypass/Output	EXT. Battery								
Solid/stranded wire: 50 mm ² Stranded wire with ferrule: 35 mm ²	Solid/stranded wire: 25 mm ² Stranded wire with ferrule: 16 mm ²								

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