

SITE PLANNING DATA Eaton 91PS 8-10 kW

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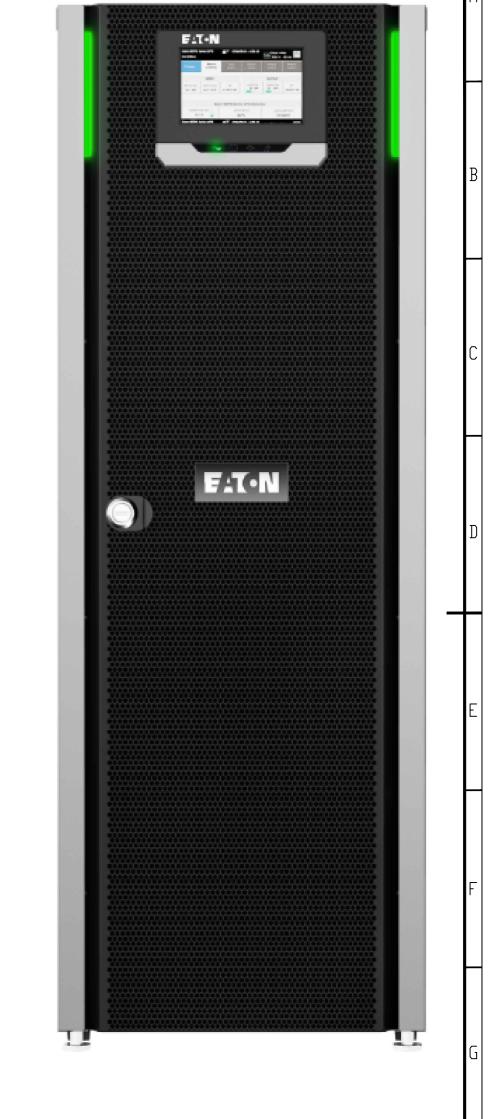
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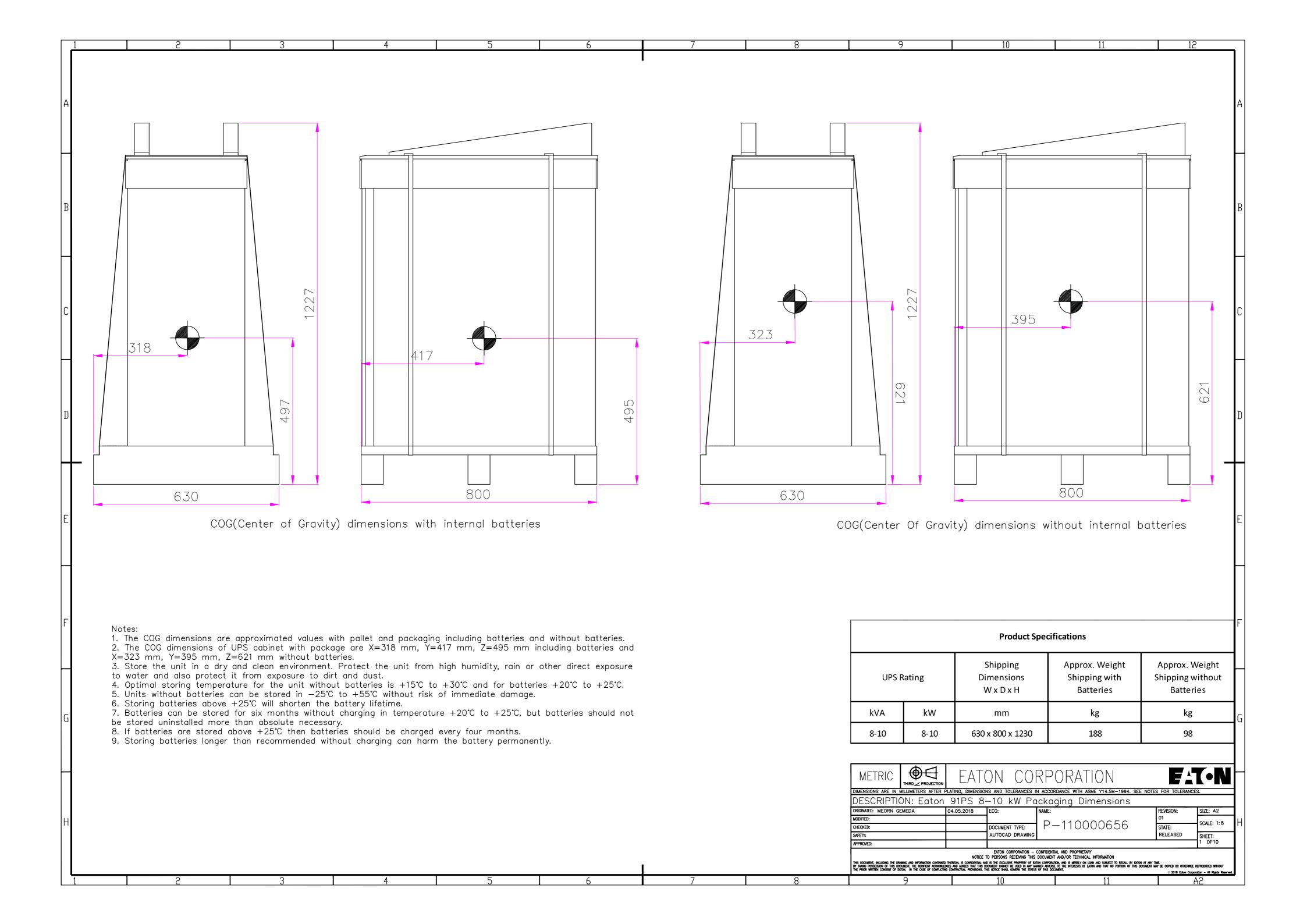
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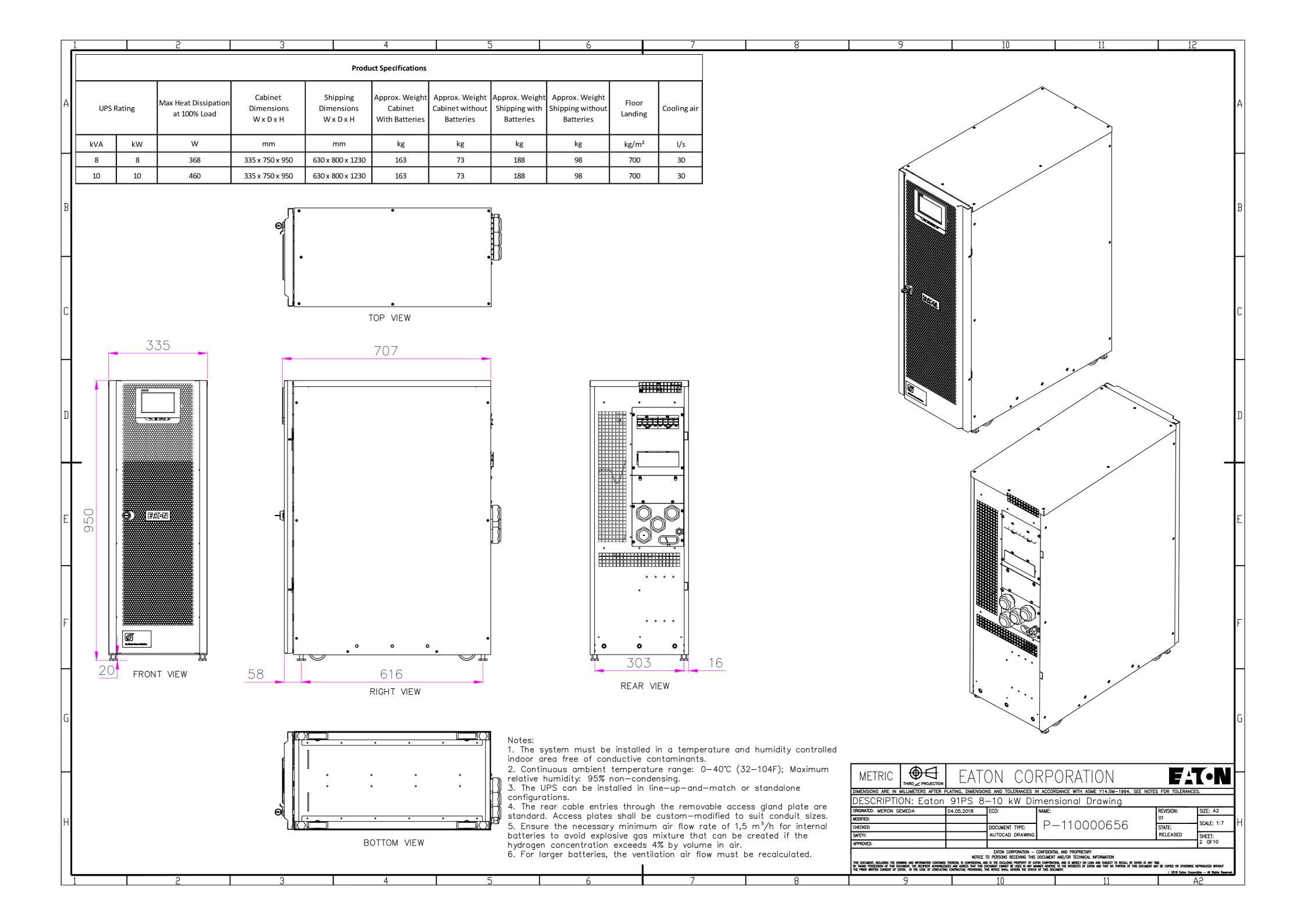
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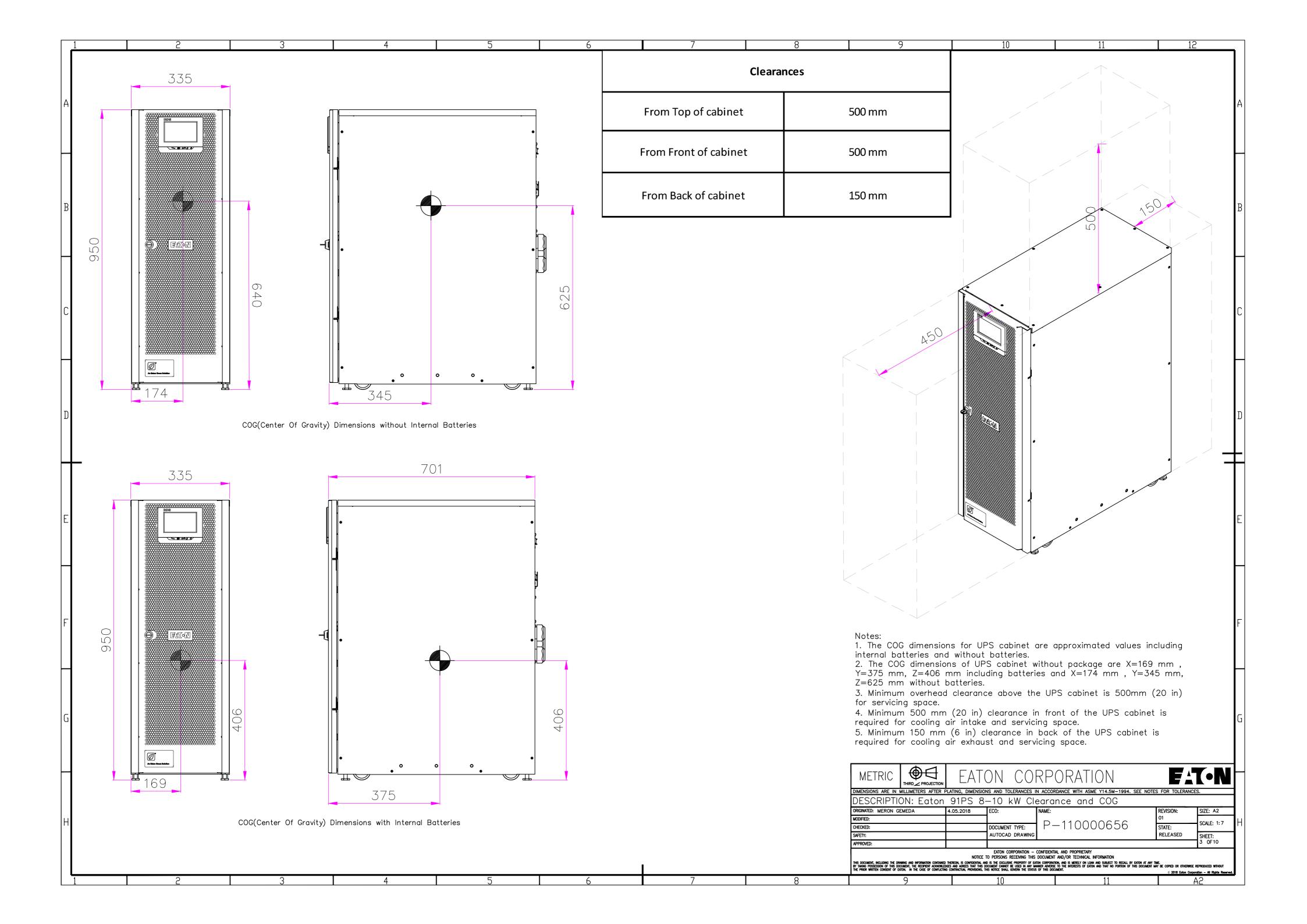
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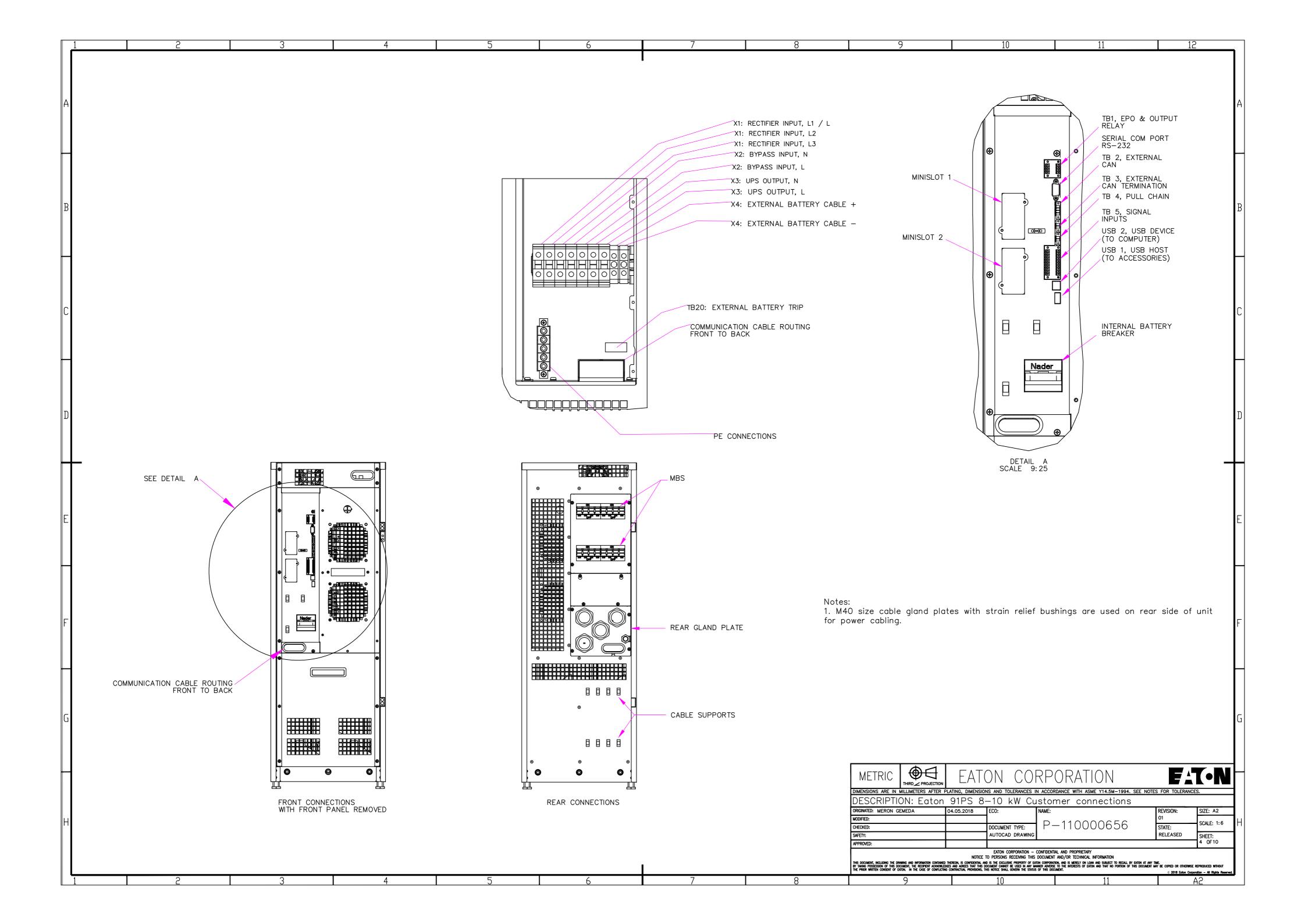


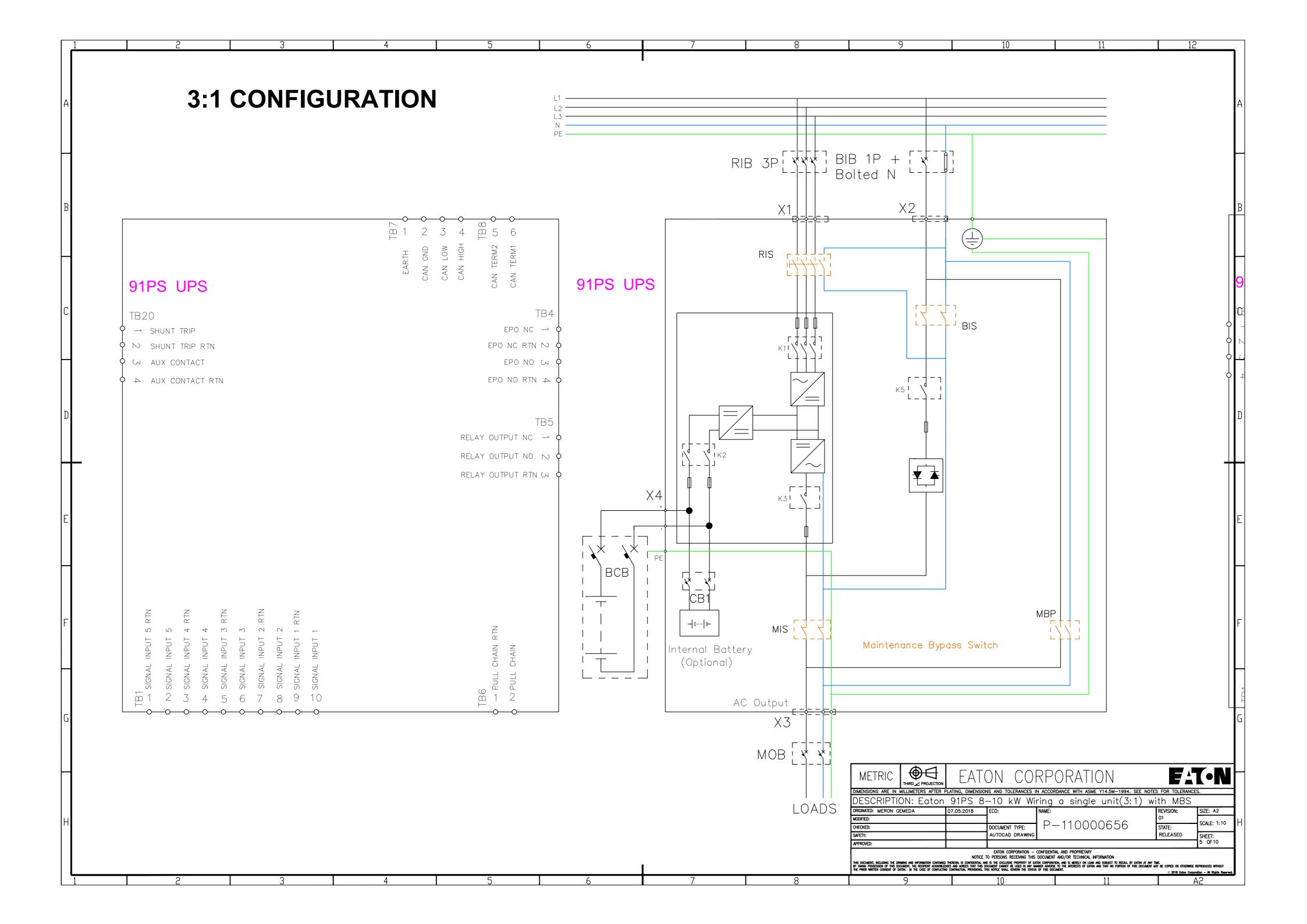
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DESCRIPTION: Eator	91PS 8	-10 kW										
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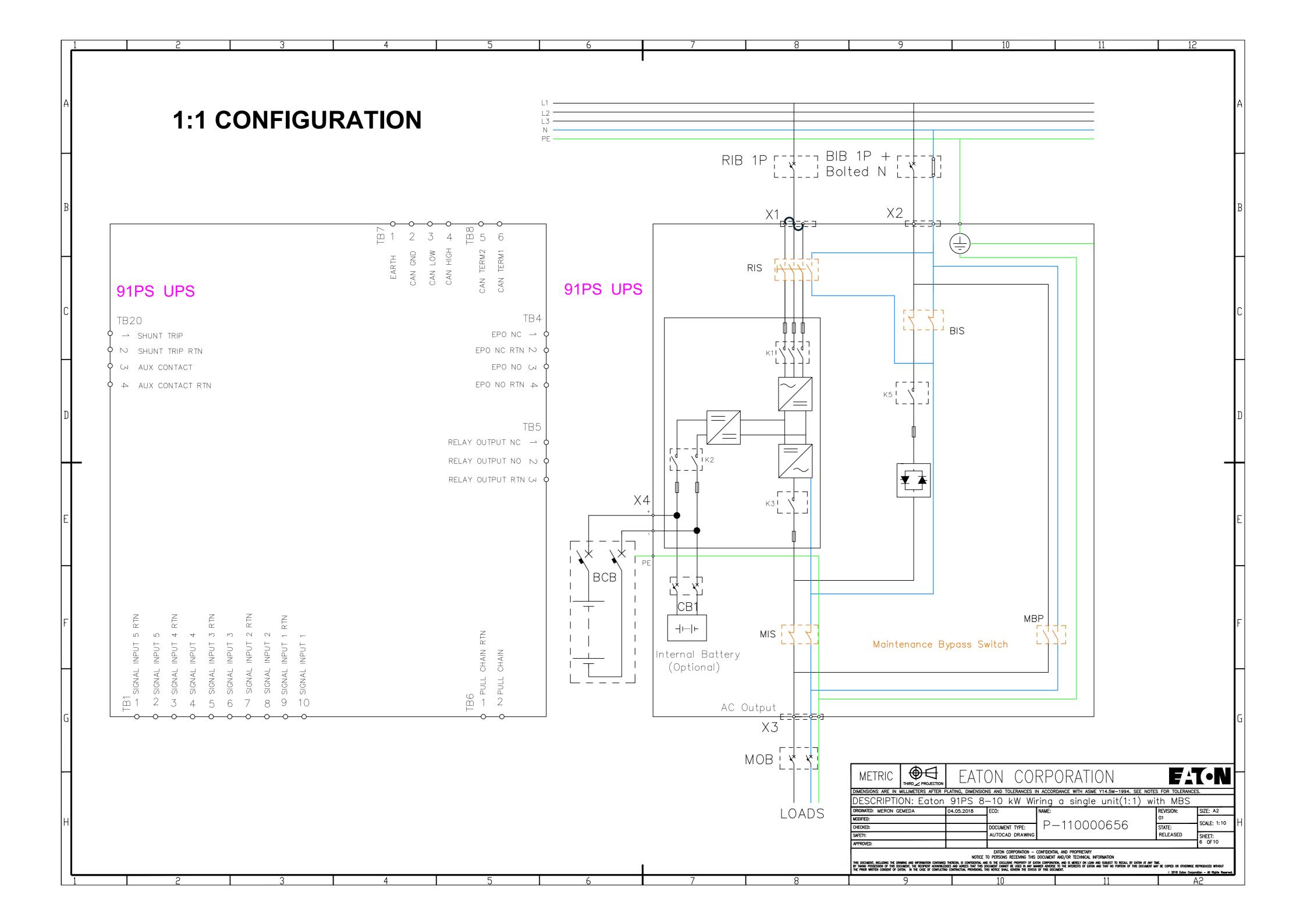


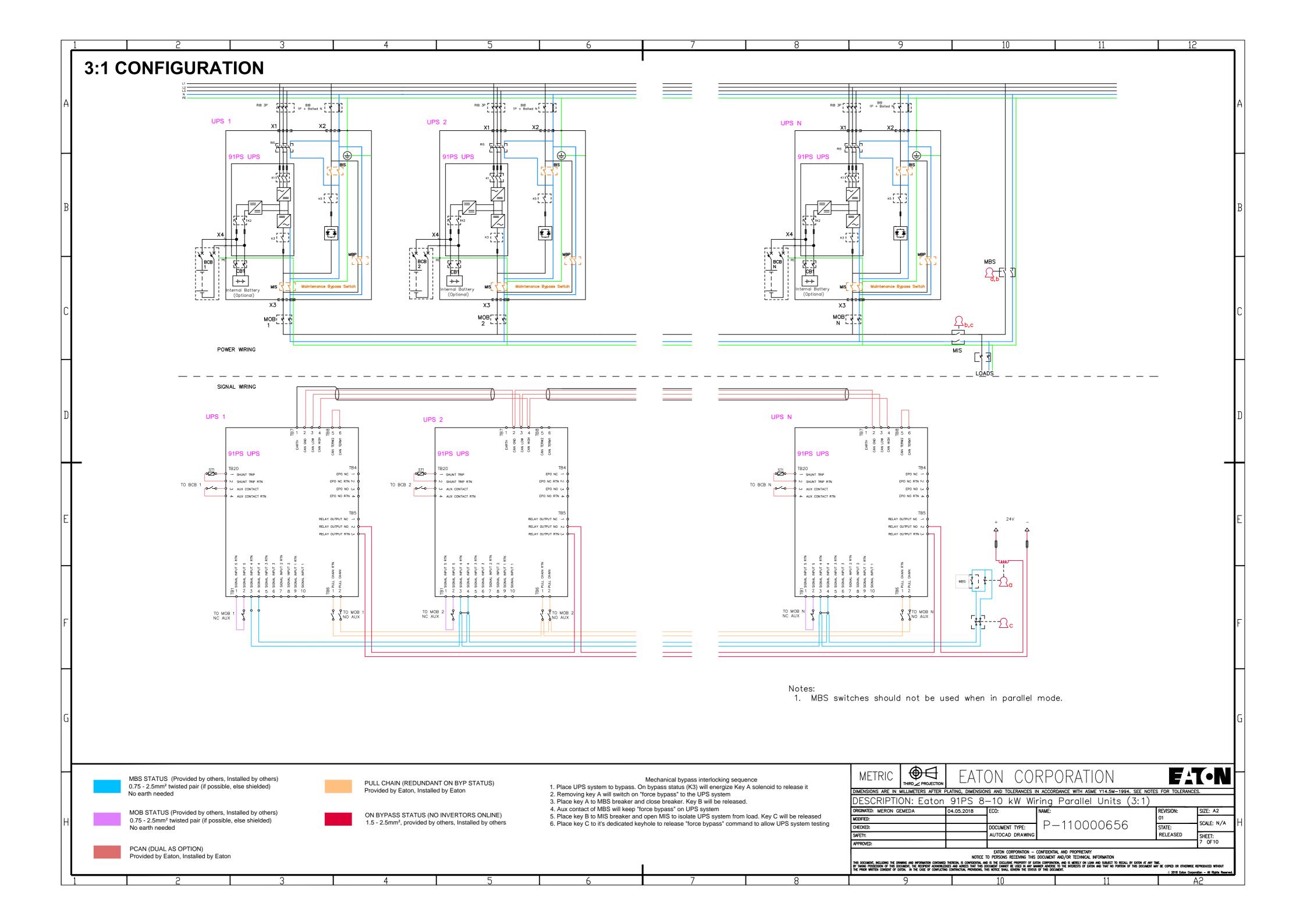


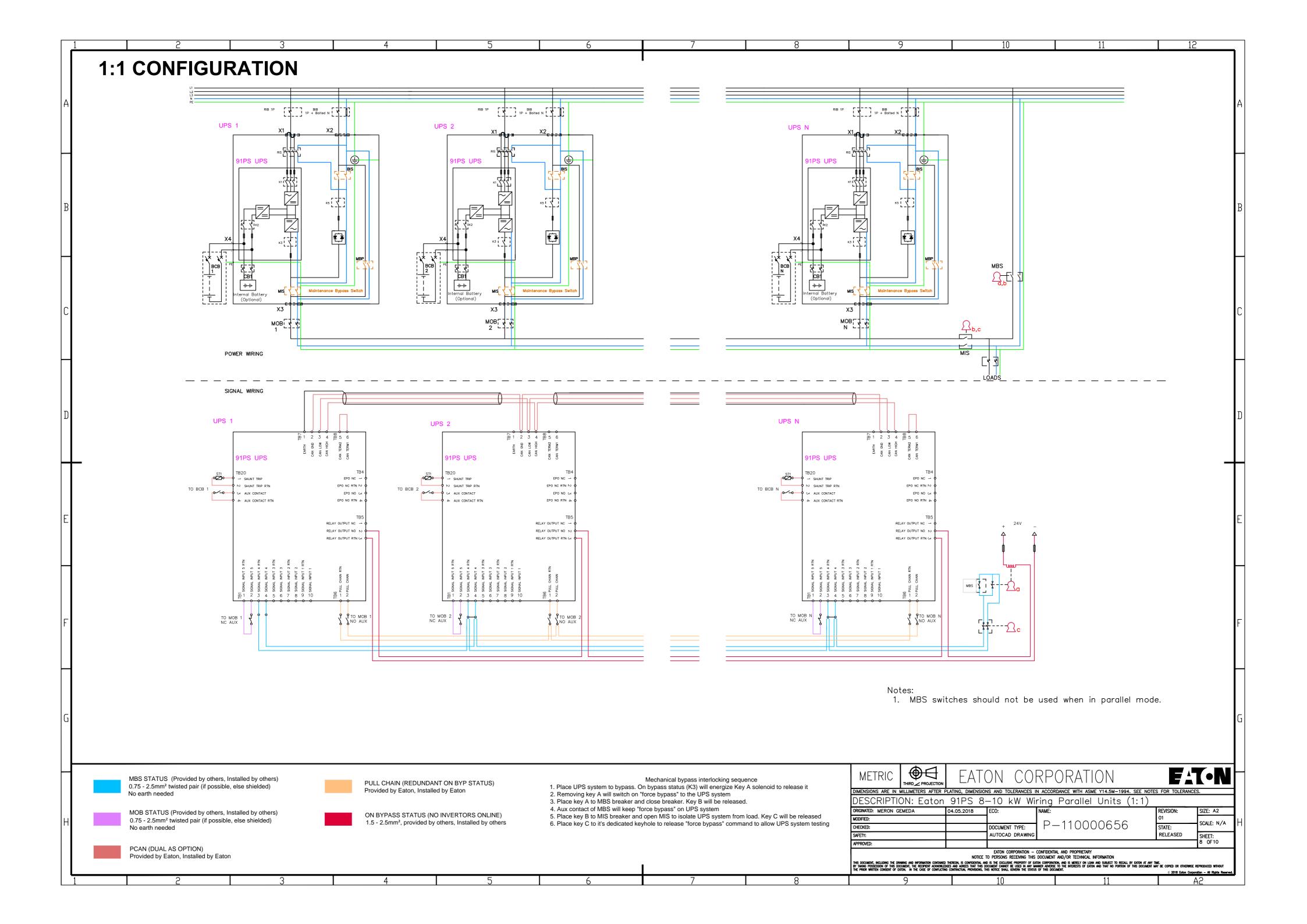












Eaton 91PS 8-10 kW (3:1) UPS Site Planning Data

										Produ	uct Specification	s								
Rectifier Input Breaker (RIB) (RIB) Rectifier Bypass Input Breaker (BIB) Rectifier Bypass AC		rerter AC output Breaker MOB Battery Breaker (BCB) Maintenance Bypass Common Mainter Switch Switch Switch						rarallel Units laintenance Bypass Switch (MBS)												
UPS	Rating	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 I I I I		Auxiliary Switches	Rating	Rating	Auxiliary Switches		
kVA	kW	V	А	А	V	А	А	Туре	V	А	A / 300 ms	Qty	VDC	Α	А	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
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													
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]						
8	2,5	16	10	50	10	10	32	10						
10	4	20	16	63	16	10	32	10						

Maximum conductor cross section										
Rectifier/Bypass/Output	EXT. Battery									
Solid/stranded wire: 50 mm² Stranded wire with ferrule: 35 mm²	Solid/stranded wire: 25 mm² Stranded wire with ferrule: 16 mm²									

- 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: (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.

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

	Product Specifications																			
LIDS	Rating	Rectifier		1P nput Breaker RIB)	Bypass AC		1P+Bolted N Bypass Input Breaker ((BIB)	AC Quitput	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	For Parallel Units mmon Maintenance Bypass Switch (MBS)	
UPST	varing	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		Rating	Separate Battery Configration (UPM Bttery)	Common Battery Configration (UPS Battery)	Trip Device (Shunt Trip)	Auxiliary Switches	Rating	Rating	Auxiliary Switches	
kVA	kW	V	Α	А	V	А	А	Туре	V	Α	A / 300 ms	Qty	VDC	А	А	VDC	Qty	А	Α	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
10	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													
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8	10	50	10	50	10	10	32	10						
10	16	63	16	63	16	10	32	10						

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 mm² Stranded wire with ferrule: 16 mm²								

- 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.

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