

SITE PLANNING DATA Eaton 91PS 8-15 kW

Page 1	Packaging Dimensions

Page 2 Dimensional Drawings

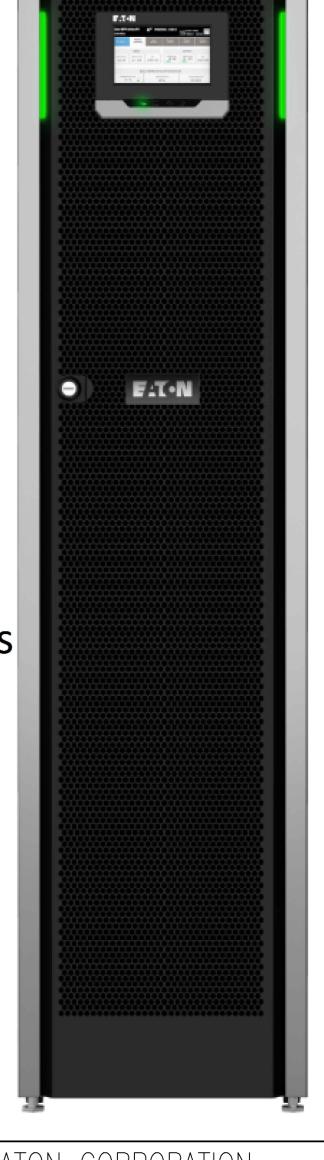
Page 3 COG(Center of Gravity) and Clearance Dimensions

Page 4 Customer Connections

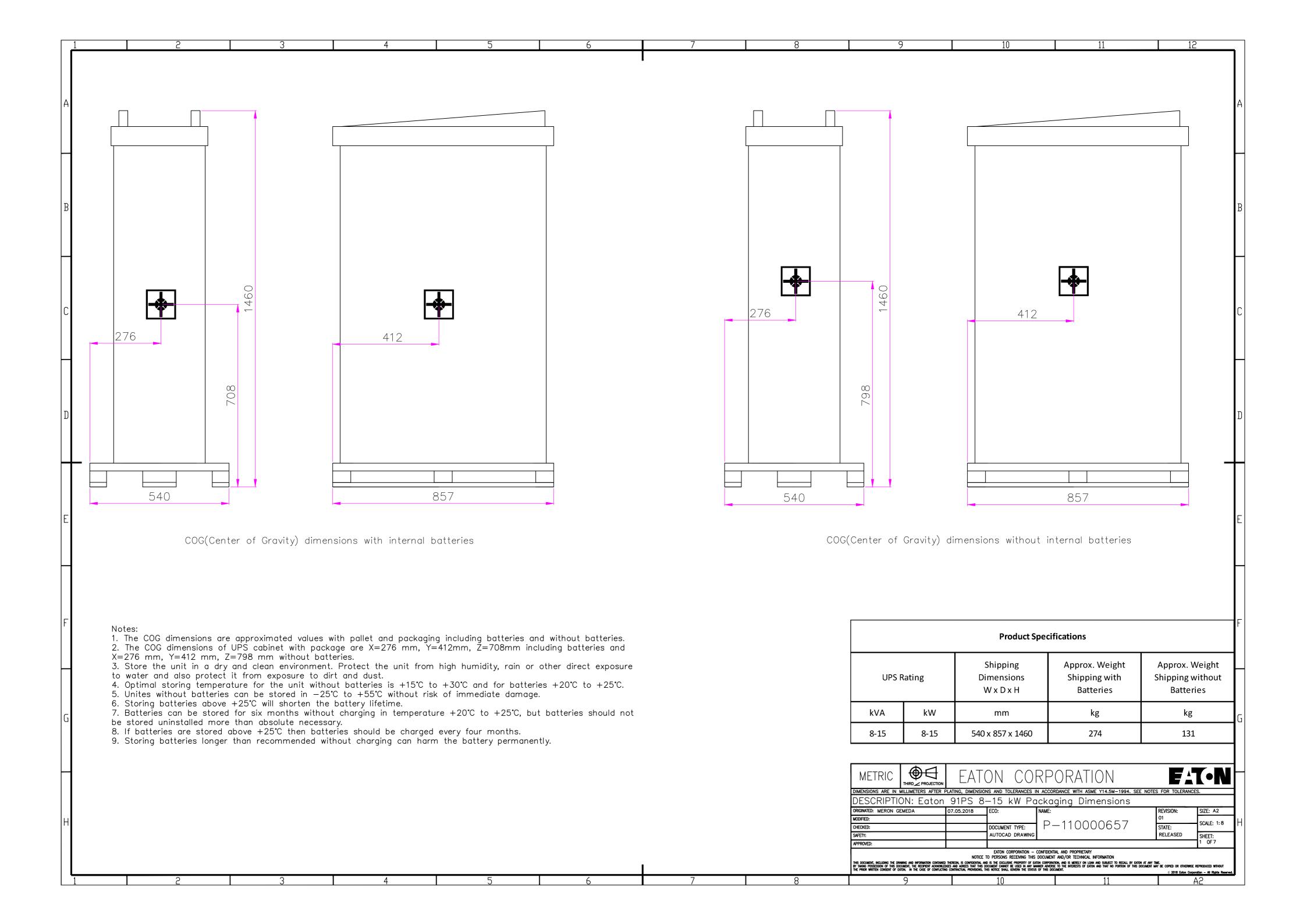
Page 5 Electrical Wiring of Single Unit

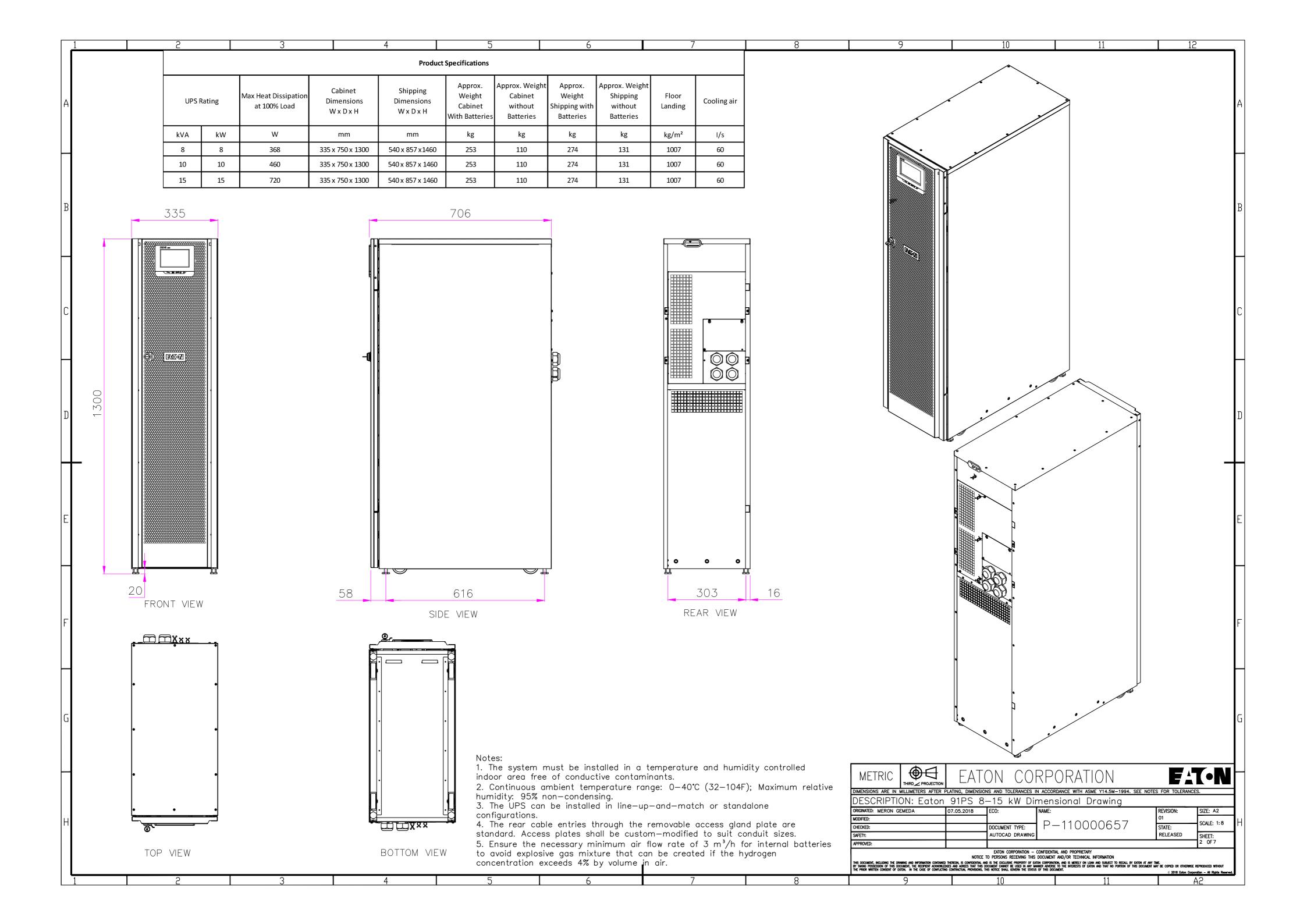
Page 6 Electrical & Signal Wiring of Parallel Units

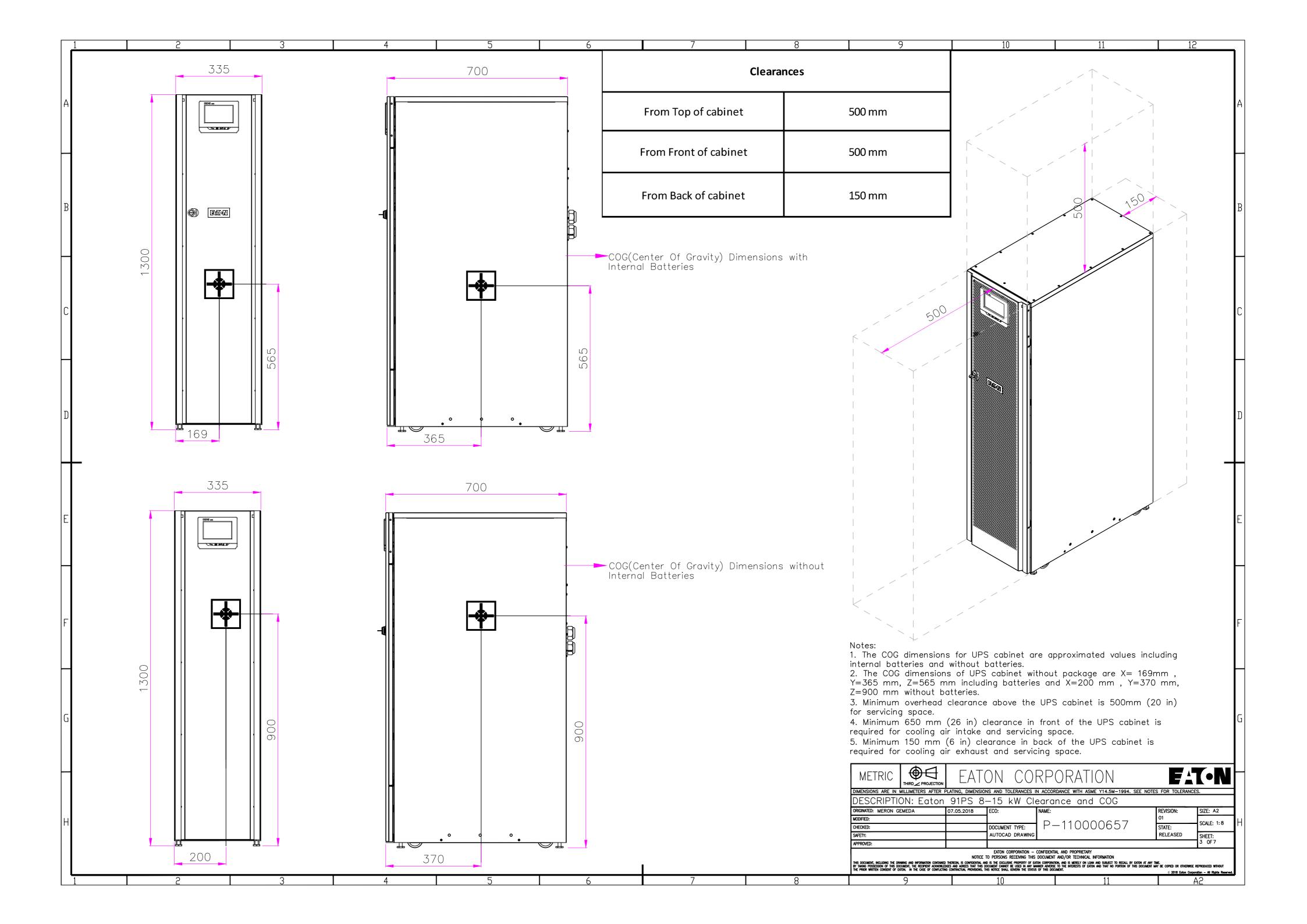
Page 7 Product Specifications

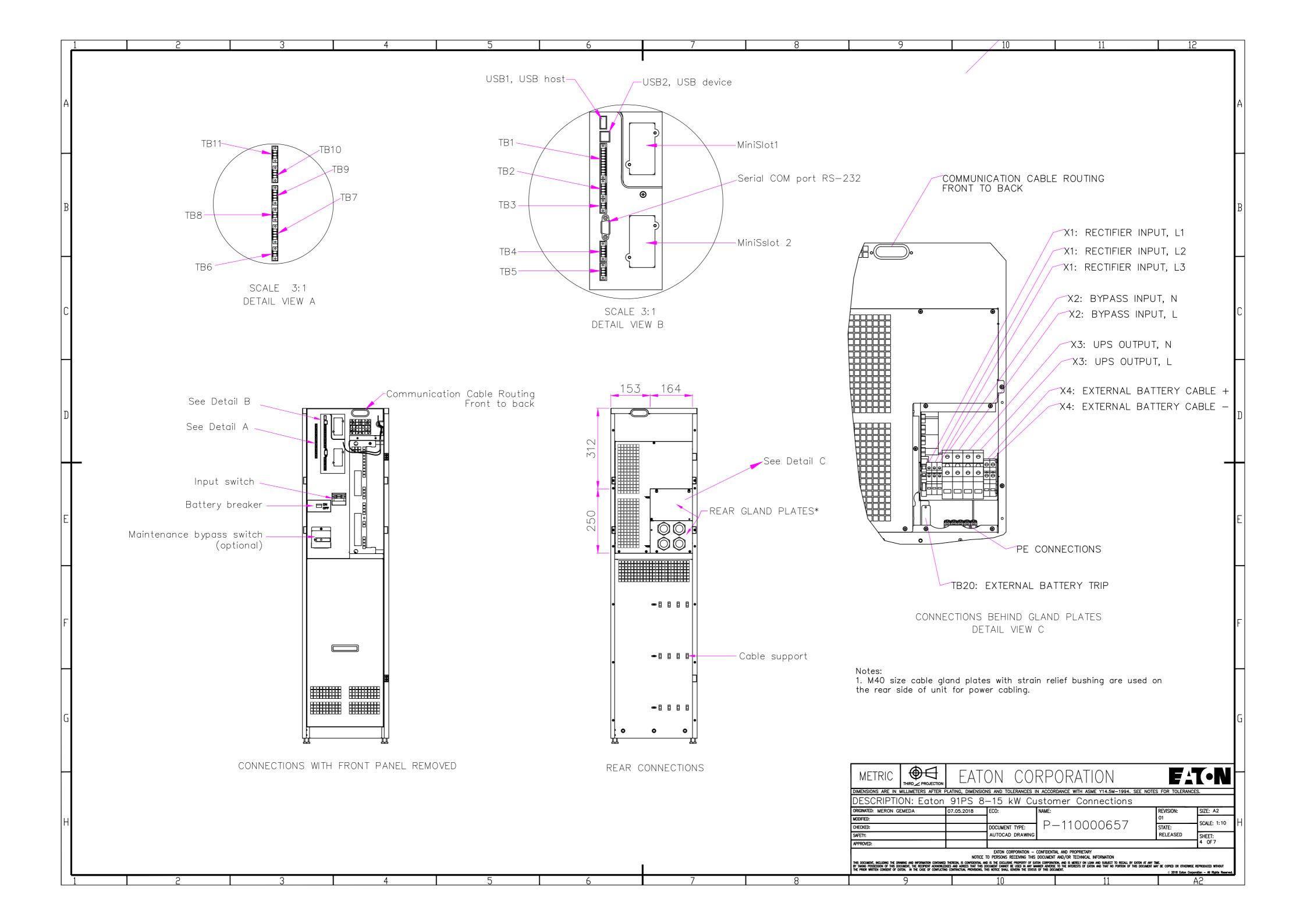


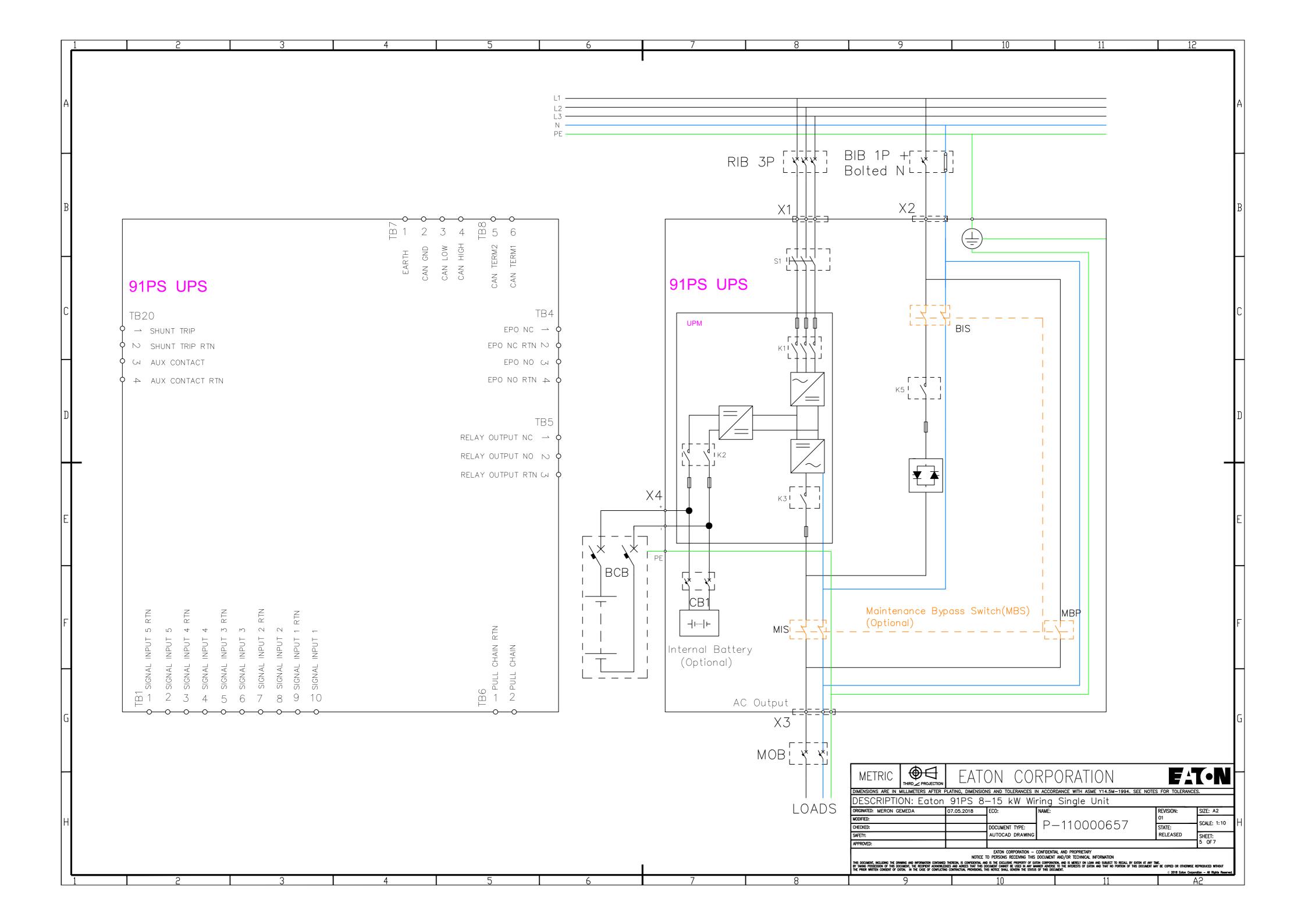
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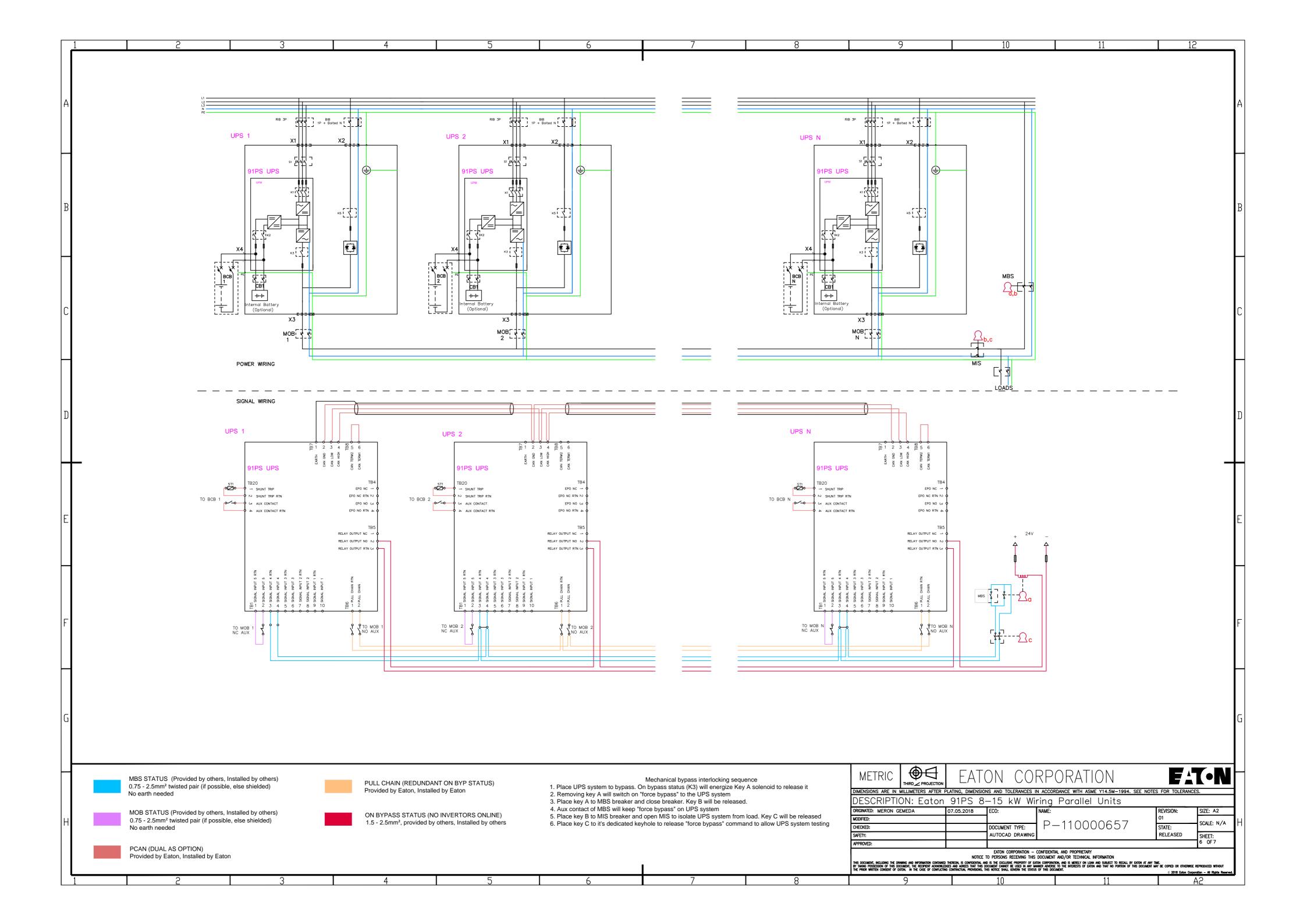












91PS 8-15 kW UPS Site Planning Data

			3P Rectifier Input Breaker (RIB)		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)					
	UPS Rating	AC Input	Nominal Current	Maximum Current	Bypass AC Input	Nominal Current at 230 v Input	Maximum Current at 15% under voltage	Rynass Filse	AC Output	Output Current	Inverter Short Circuit Current	Auxiliary Switches		_	Common Battery Configration (UPSBattery)	Trip Device (Shunt Trip)	1	Rating	
kV	/A	kW	V	А	А	V	А	А	Туре	V	Α	A / 300 ms	Qty	VDC	А	А	VDC	Qty	А
	8	8	400	12	18	230	36	41	3 x 160FEE (parallel)	230	36	156	2	500	NA	63	24	1	36
1	10	10	400	15	22	230	45	51	3 x 160FEE (parallel)	230	45	156	2	500	NA	63	24	1	45
1	15	15	400	23	29	230	68	77	3 x 160FEE (parallel)	230	68	156	2	500	NA	63	24	1	68

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]
8	2,5	20	10	50	10	1*16	63
10	4	20	16	63	16	1*16	63
15	10	32	25	80	16	1*16	63

Maximum conductor cross section							
Rectifier	Bypass/Output	EX. Battery					
Solid/stranded wire: 16 mm ² Stranded wire with ferrule: 10 mm ²	Solid/stranded wire: 50 mm ² Stranded wire with ferrule: 70 mm ²	Solid/stranded wire: 25 mm ² Stranded wire with ferrule: 16 mm ²					

- 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. 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. For UPS installation that utilizes single feed input, The input breaker should be configured according to the rated rectifier input of the 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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