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# SAVANT POWER STORAGE 50

## PS50-12.5KW-100A-XX

### GENERAL NOTES

1. CONCEPT ONLY: NOT FOR CONSTRUCTION OR PERMIT SUBMITTAL.
2. AS A BASIS FOR THE MINIMUM INSTALLATION CRITERIA, ENGINEER OF RECORD (EOR) IS TO ENSURE THAT ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE STATE BUILDING CODE, STATE ELECTRICAL CODE, NFPA, ANSI/NECA INSTALLATION STANDARDS AND OTHER APPLICABLE CODES, REGULATIONS AND LAWS OF LOCAL, STATE AND FEDERAL GOVERNMENT, OTHER AUTHORITIES HAVING JURISDICTION AND APPLICABLE BASE BUILDING STANDARDS AND SPECIFICATIONS.
3. THESE DRAWINGS ILLUSTRATE A CONCEPT SHOWING MAJOR EQUIPMENT AND INTERCONNECTIONS BUT ARE NOT TO BE CONSIDERED FABRICATION / SITE SPECIFIC DRAWINGS. CABLE SIZING, SHORT CIRCUIT, GROUNDING, OVERCURRENT PROTECTION AND DISCONNECTING MEANS TO BE DESIGNED BY EOR WITH PE STAMPED SITE SPECIFIC CONTRACT DRAWINGS.
4. EOR TO ENSURE FINAL SYSTEM DESIGN ADHERES TO ALL APPLICABLE ARTICLES OF NEC INCLUDING ARTICLES 110, 240, 250, 310, 480, 690, 702, 705, 706 AND 750.
5. EOR SHALL REVIEW AND PROVIDE CALCULATIONS FOR ALL DOWNSTREAM LOADS FED BY THE PS50 INVERTER. ENSURE THAT THE COMBINATION OF ALL CONTINUOUS BASE LOAD & INRUSH SURGES CAUSED BY LINEAR AND NON-LINEAR LOADS ARE BELOW THE OVERLOAD SET POINT LIMITS OF THE INVERTER. CURRENT MAGNITUDE AND DURATION SHALL BE FACTORED INTO THE OVERALL DESIGN OF THE SYSTEM TO AVOID ANY NUISANCE TRIPPING. MITIGATION TECHNIQUES SUCH AS THE ADDITION OF SOFT-STARTS ON INDUCTIVE LOADS; RELOCATION OF LOADS TO NON-BACKED UP PANELS; OR GENERAL SYSTEM UPSIZING SHALL BE CONSIDERED.
6. EOR SHALL REVIEW AND PROVIDE CALCULATIONS FOR ALL DOWNSTREAM LOADS FED BY A GENERATOR WHEN CONNECTING TO THE PS50 SYSTEM IN AN OFF-GRID SITUATION. SIZE THE GENERATOR ACCORDING TO THE LATEST "SAVANT POWER STORAGE GENERATOR INSTALLATION AND ATS INTEGRATION GUIDE" FOUND IN THE "SAVANT POWER RESOURCE LINK" ON THIS SHEET.
7. FOR ALL PARALLEL INSTALLS, WHEN INSTALLING AC WIRE BETWEEN THE UPSTREAM BREAKERS IN THE GRID COMBINER PANEL (GCP) TO THEIR RESPECTIVE INVERTER GRID TERMINAL ON THE PS50, IT IS REQUIRED THAT THE WIRE LENGTH TO THE CLOSEST PS50 IS AT LEAST 65% THE WIRE LENGTH OF THE FURTHEST INSTALLED PS50 FROM THE GCP. THIS HELPS ENSURE THAT THE WIRE RESISTANCE DIFFERENCE IS KEPT TO A MINIMUM BETWEEN THE FURTHEST AND CLOSEST PS50. THE SAME IS REQUIRED FOR GENERATOR / AC COUPLED SOLAR APPLICATIONS USING A GENERATOR COMBINER PANEL FEEDING THE GEN TERMINALS ON PARALLEL PS50 UNITS.
8. DC SOLAR SHALL BE SUPPORTED IN UNLIMITED SOLAR SELL BACK; LIMITED SOLAR SELL BACK; AND NO SOLAR SELL BACK INTERCONNECTION AGREEMENTS.
9. AC SOLAR SHALL ONLY BE SUPPORTED IN UNLIMITED SOLAR SELL BACK INTERCONNECTION AGREEMENTS. IN OFF GRID SITUATIONS, FREQUENCY SHIFTING IS USED TO SHUT OFF AC SOLAR AT THE PS50 INVERTER GEN TERMINAL.
10. REFER TO POWER STORAGE 50 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
11. REFER TO THE SAVANT POWER STORAGE 50 INSTALLATION GUIDE FOR ADDITIONAL INFORMATION SUCH AS MAINTENANCE SPACE REQUIREMENTS TO AID IN THE DESIGN OF YOUR PROJECT.

# SAVANT POWER RESOURCE LINK

PLEASE USE THIS QR CODE TO GET TO ALL THE LATEST SPECIFICATION SHEETS, INSTALLATION GUIDES FOR THE SAVANT POWER SYSTEM.

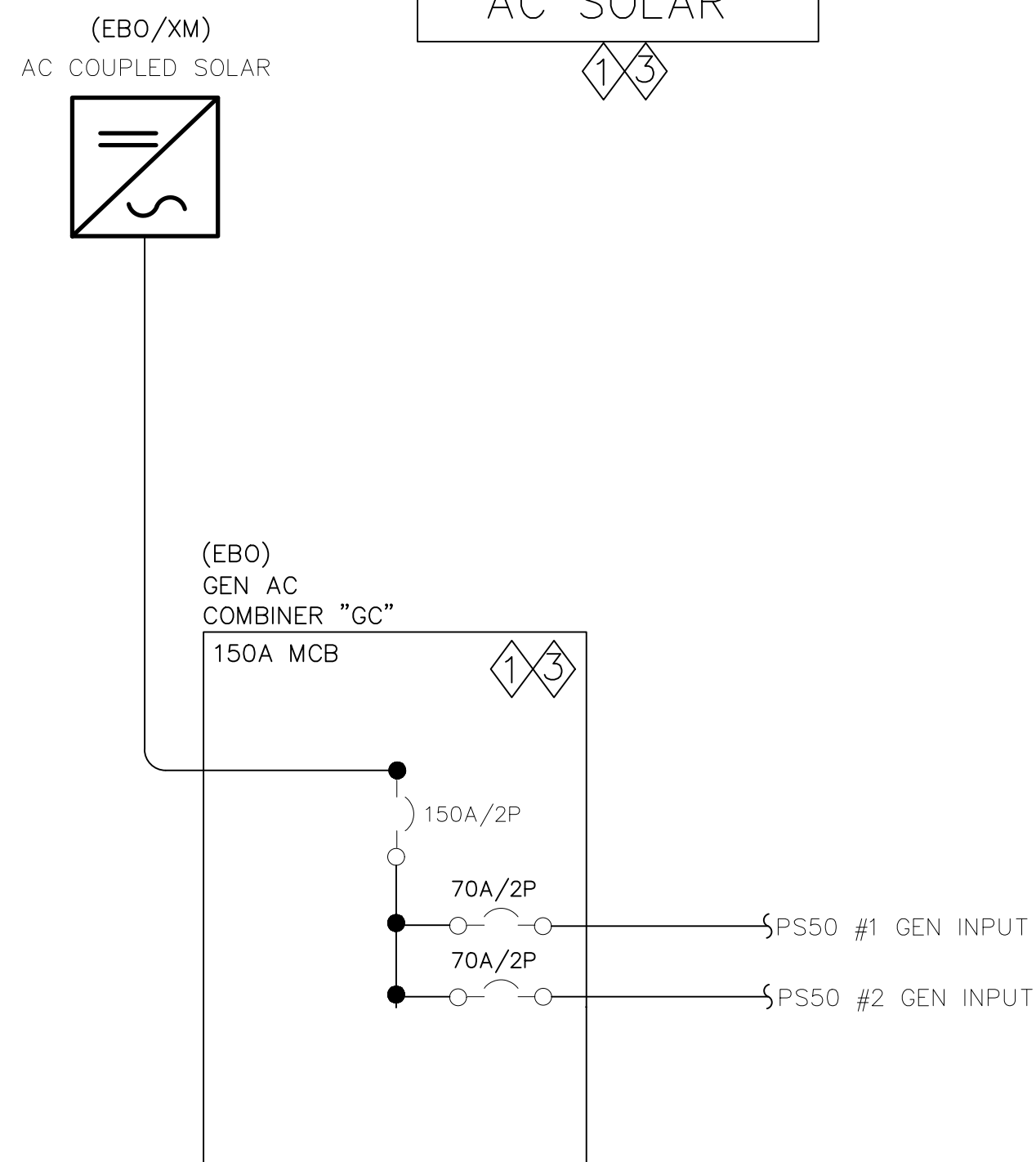
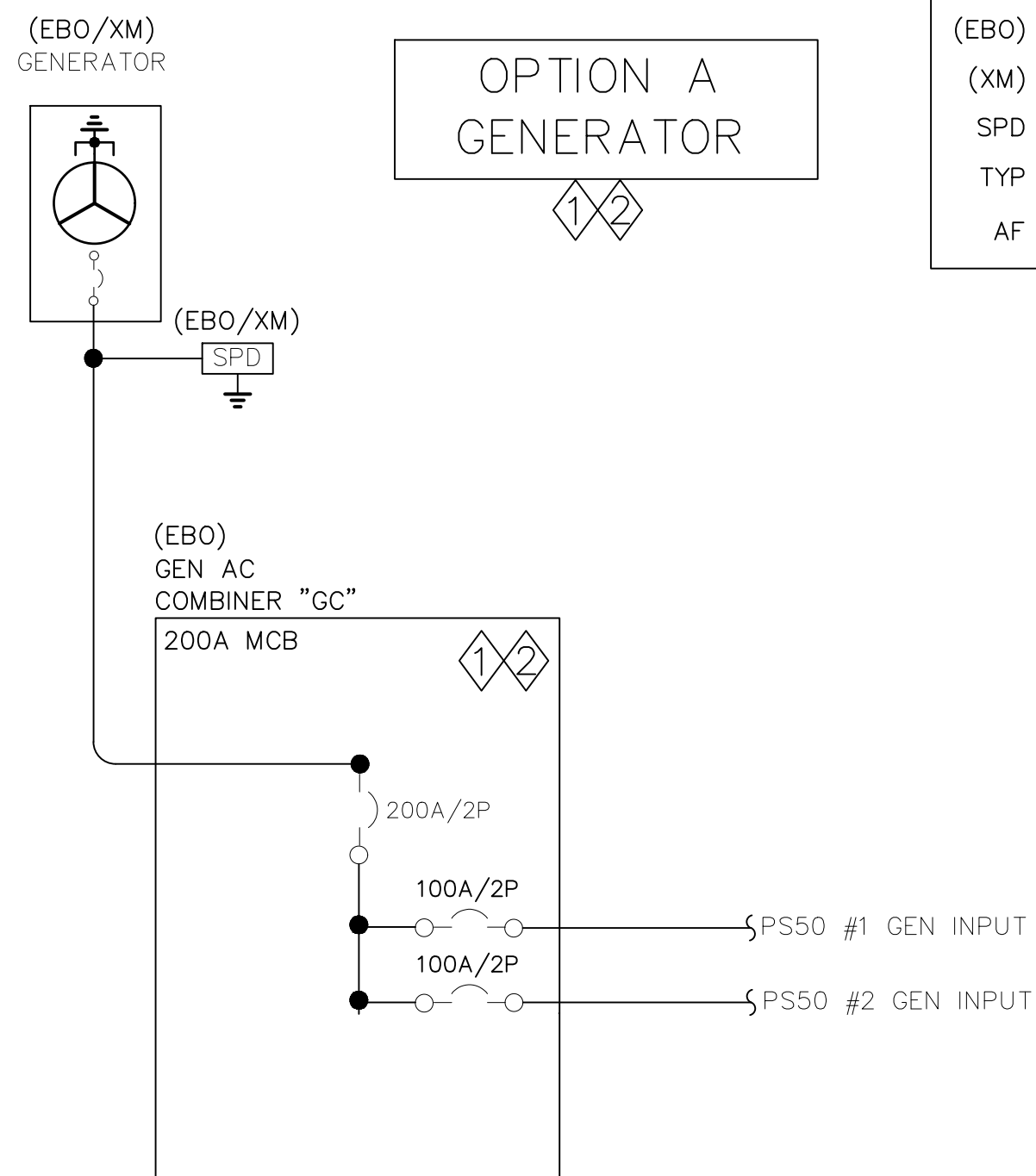


PS50\_GEN TO GEN\_12\_10\_2025\_V00\_R00.DWG

|  |                         |      |       |       |     |      |        |     |            |            |     |      |     |      |                 |     |            |                                        |  |              |                                                        |     |  |
|--|-------------------------|------|-------|-------|-----|------|--------|-----|------------|------------|-----|------|-----|------|-----------------|-----|------------|----------------------------------------|--|--------------|--------------------------------------------------------|-----|--|
|  | INTER-DISCIPLINE REVIEW |      |       |       |     |      |        |     |            |            |     |      |     |      | DSGN            |     |            |                                        |  | SAVANT POWER | JOB NUMBER                                             | REV |  |
|  | DISC                    | ARCH | CIVIL | ELECT | I&C | MECH | STRUCT |     |            |            |     |      |     |      | DRN             | MAW | 12-10-2025 |                                        |  |              | -                                                      |     |  |
|  | DATE                    | *    | *     | *     | *   | *    | *      |     |            |            |     |      |     |      | CKD             | JP  |            |                                        |  |              | DRAWING NUMBER                                         |     |  |
|  | INIT                    | *    | *     | *     | *   | *    | *      | 00  | VERSION 00 | 12-10-2025 | MAW |      |     |      |                 |     |            |                                        |  |              | 009-2639-00                                            |     |  |
|  |                         |      |       |       |     |      |        | REV | REVISIONS  | DATE       | DRN | DSGN | CKD | APPD | SCALE: AS NOTED |     |            |                                        |  |              | PS50 GENERAL NOTES<br>GENERATOR TO GEN TERMINAL DESIGN |     |  |
|  |                         |      |       |       |     |      |        |     |            |            |     |      |     |      |                 |     |            | CERTIFICATE OF REGISTRATION NO. X-0000 |  |              |                                                        |     |  |

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GEN TERMINAL SOURCE OPTIONS

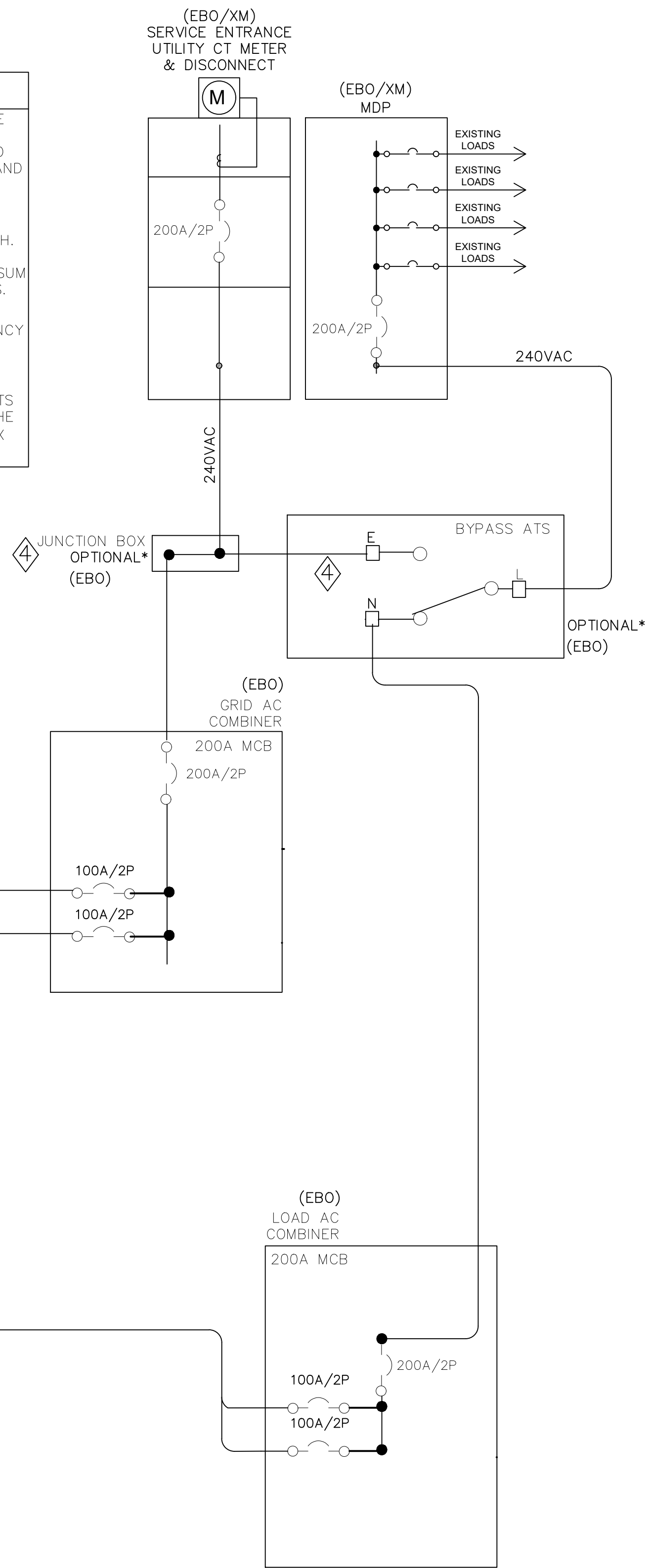
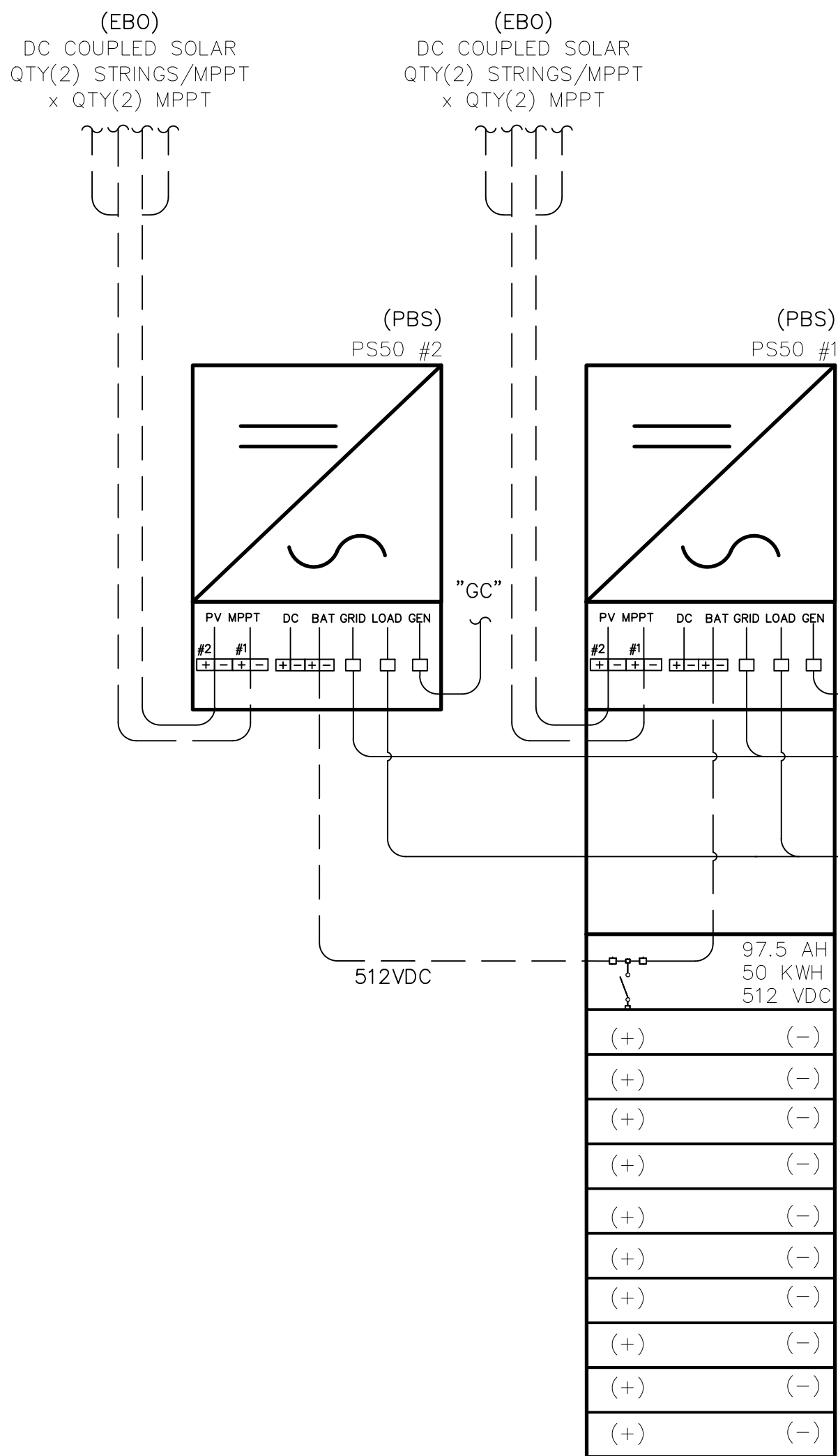


LEGEND & ABBREVIATIONS

|       |                                               |
|-------|-----------------------------------------------|
| (PBS) | PROVIDED BY SAVANT POWER, INSTALLED BY OTHERS |
| (EBO) | EQUIPMENT FURNISHED AND INSTALLED BY OTHERS   |
| (XM)  | EQUIPMENT EXISTING TO REMAIN                  |
| SPD   | SURGE PROTECTION DEVICE                       |
| TYP   | TYPICAL THROUGHOUT DRAWING                    |
| AF    | SWITCH DISCONNECT FUSE RATING                 |

KEYNOTE DRAWING NOTES

- 1 OCPD SIZING ON THIS CONCEPT DRAWING SHOWS THE MAXIMUM ALLOWABLE SIZE FOR THIS PS50 CONFIGURATION. ENGINEER OF RECORD TO SIZE OCPD AND CABLE SIZES ACCORDING TO SITE CONDITIONS AND LATEST NEC CODE. SEE GENERAL NOTES SHEET FOR ADDITIONAL DESIGN GUIDANCE.
- 2 QTY (1) PS50 GEN TERMINAL INPUT IS RATED UP TO 24KW PER INVERTER FOR GENERATOR PASS-THROUGH. GENERATOR POWER SHALL NOT BE LESS THAN THE POWER OF THE POTENTIAL HOUSE LOAD, PLUS THE SUM OF THE CHARGING POWER FOR ALL BATTERY STACKS.
- 3 QTY (1) PS50 GEN TERMINAL INPUT IS RATED UP TO 12.5KW AC SOLAR PER INVERTER. OFF GRID FREQUENCY SHIFTING IS AN INCLUDED FUNCTION ON THE GEN TERMINAL TO TURN AC SOLAR FEEDS ON OR OFF.
- 4 CONSIDER USING A POLARIS TAP WITHIN THE ATS/MTS TO TAP THE INCOMING FEED. IF NO SPACE WITHIN THE ATS/MTS IS AVAILABLE, AN EXTERNAL JUNCTION BOX MAY BE USED.



200A POWER STORAGE 50 SYSTEM NOTES

1. 50KWH RATED ENERGY STORAGE
2. OFF GRID CONTINUOUS: 25KW / 104A
3. QTY (4) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
4. QTY (2) 24KW GEN INPUTS OR UP TO (2) 12.5KW AC COUPLED PV INPUTS
5. MAXIMUM AC+DC COUPLED SOLAR COMBINATION: 12.5KW / INVERTER
6. 48KW / 200A GRID PASS THROUGH
7. CHARGE RATE: 6.5KW / INVERTER 13KW / BATTERY STACK
8. DISCHARGE RATE: 12.5KW / INVERTER 25KW / BATTERY STACK

| INTER-DISCIPLINE REVIEW |      |       |       |     |      |        |
|-------------------------|------|-------|-------|-----|------|--------|
| DISC                    | ARCH | CIVIL | ELECT | I&C | MECH | STRUCT |
| DATE                    | *    | *     | *     | *   | *    | *      |
| INIT                    | *    | *     | *     | *   | *    | *      |

| REV       | VERSION 00 | DATE       | DRN | DSGN | CKD | APPD |
|-----------|------------|------------|-----|------|-----|------|
| 00        | VERSION 00 | 12-10-2025 | MAW |      |     |      |
| REVISIONS |            | DATE       | DRN | DSGN | CKD | APPD |

|        |          |            |
|--------|----------|------------|
| DSGN   | MAW      | 12-10-2025 |
| DRN    | JP       |            |
| CKD    |          |            |
| SCALE: | AS NOTED |            |

CERTIFICATE OF REGISTRATION NO. X-0000

| SAVANT POWER                                             |  | JOB NUMBER     | REV         |
|----------------------------------------------------------|--|----------------|-------------|
| RESIDENTIAL MICROGRID                                    |  | -              | 00          |
| 200A: 25KW - 50KWH ESS<br>PS50 ONLINE DIAGRAM (120/240V) |  | DRAWING NUMBER | 009-2617-00 |