

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 GRID_12_10_2025_V00_R00.DWG

INTER-DISCIPLINE REVIEW								DSGN	MAW	12-10-2025	SAVANT POWER	JOB NUMBER	REV
DISC	ARCH	CIVIL	ELECT	I&C	MECH	STRUCT	DRN	CKD	JP	RESIDENTIAL MICROGRID		-	00
DATE	*	*	*	*	*	*					PS50 GENERAL NOTES GENERATOR TO GRID TERMINAL DESIGN	DRAWING NUMBER 009-2676-00	CERTIFICATE OF REGISTRATION NO. X-0000
INIT	*	*	*	*	*	*	00	VERSION 00	12-10-2025	MAW			
REV								REVISIONS	DATE	DRN	DSGN	CKD	APPD

100A POWER STORAGE 50 SYSTEM NOTES

- 50KWH RATED ENERGY STORAGE
- 12.5KW / 52A OFFGRID CONTINUOUS
- QTY (2) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
- QTY (1) 12.5KW AC COUPLED PV INPUT AT GEN TERMINAL
- MAXIMUM AC+DC COUPLED SOLAR COMBINATION: 12.5KW / BATTERY STACK
- 24KW / 100A GRID PASS THROUGH
- CHARGE RATE: 6.5KW / INVERTER
- DISCHARGE RATE: 12.5KW / INVERTER

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

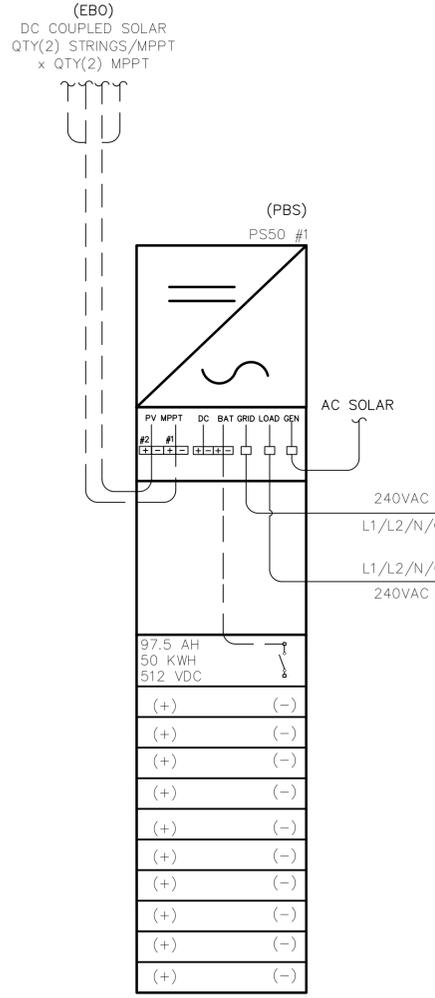
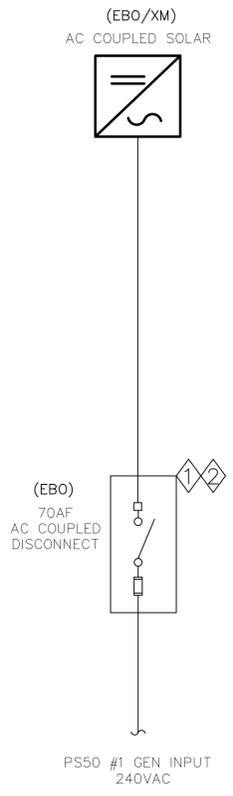
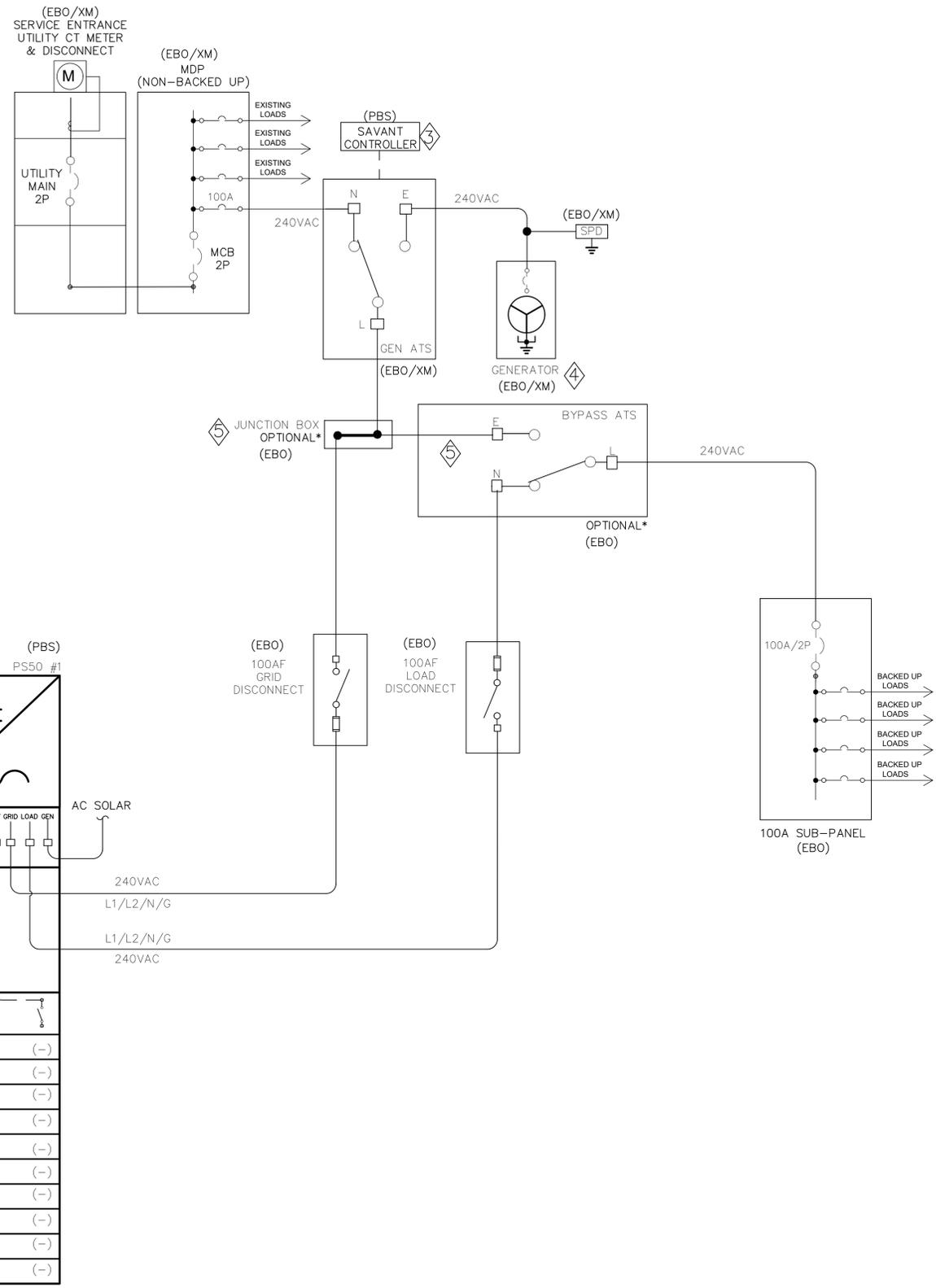
① OCPD SIZING ON THIS CONCEPT DRAWING SHOWS THE MAXIMUM ALLOWABLE SIZE FOR THIS PS50 CONFIGURATION. ENGINEER OF RECORD TO SIZE OCPD AND CABLE SIZES ACCORDING TO SITE CONDITIONS AND LATEST NEC CODE. SEE GENERAL NOTES SHEET FOR ADDITIONAL DESIGN GUIDANCE.

② QTY (1) PS50 GEN TERMINAL INPUT IS RATED UP TO 12.5KW AC SOLAR PER BATTERY STACK. OFF GRID FREQUENCY SHIFTING IS AN INCLUDED FUNCTION ON THE GEN TERMINAL TO TURN AC SOLAR FEEDS ON OR OFF.

③ "GENERATOR TO GRID" SYSTEMS REQUIRE A SAVANT CONTROLLER (DIRECTOR OR PRO HOST). THE GPIO PORT ON THE CONTROLLER SHALL BE CONNECTED TO THE AUXILIARY POSITIONAL CONTACTS ON THE GENERATOR ATS. THIS TELLS THE SAVANT SYSTEM THE POSITIONAL STATUS OF THE GEN ATS (NORMAL VS EMERGENCY).

④ QTY (1) PS50 GRID TERMINAL INPUT IS RATED UP TO 24KW PER INVERTER FOR UTILITY OR 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.

⑤ 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.



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DISC	ARCH	CIVIL	ELECT	I&C	MECH	STRUCT						DRN	MAW	12-10-2025	RESIDENTIAL MICROGRID		-	00
DATE	*	*	*	*	*	*						CKD	JP		DRAWING NUMBER			
INIT	*	*	*	*	*	*	00	VERSION 00	12-10-2025	MAW		SCALE: AS NOTED			100A: 12.5KW - 50KWH PARTIAL BACKUP ESS PS50 ONELINE DIAGRAM (120/240V)		009-2650-00	
REV	REVISIONS						DATE	DRN	DSGN	CKD	APPD	CERTIFICATE OF REGISTRATION NO. X-0000						

LEGEND & ABBREVIATIONS	
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SPD	SURGE PROTECTION DEVICE
TYP	TYPICAL THROUGHOUT DRAWING
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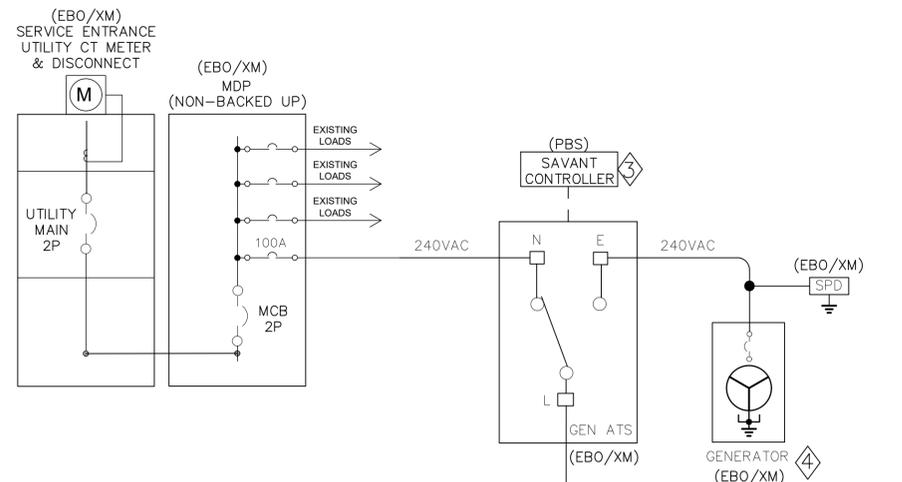
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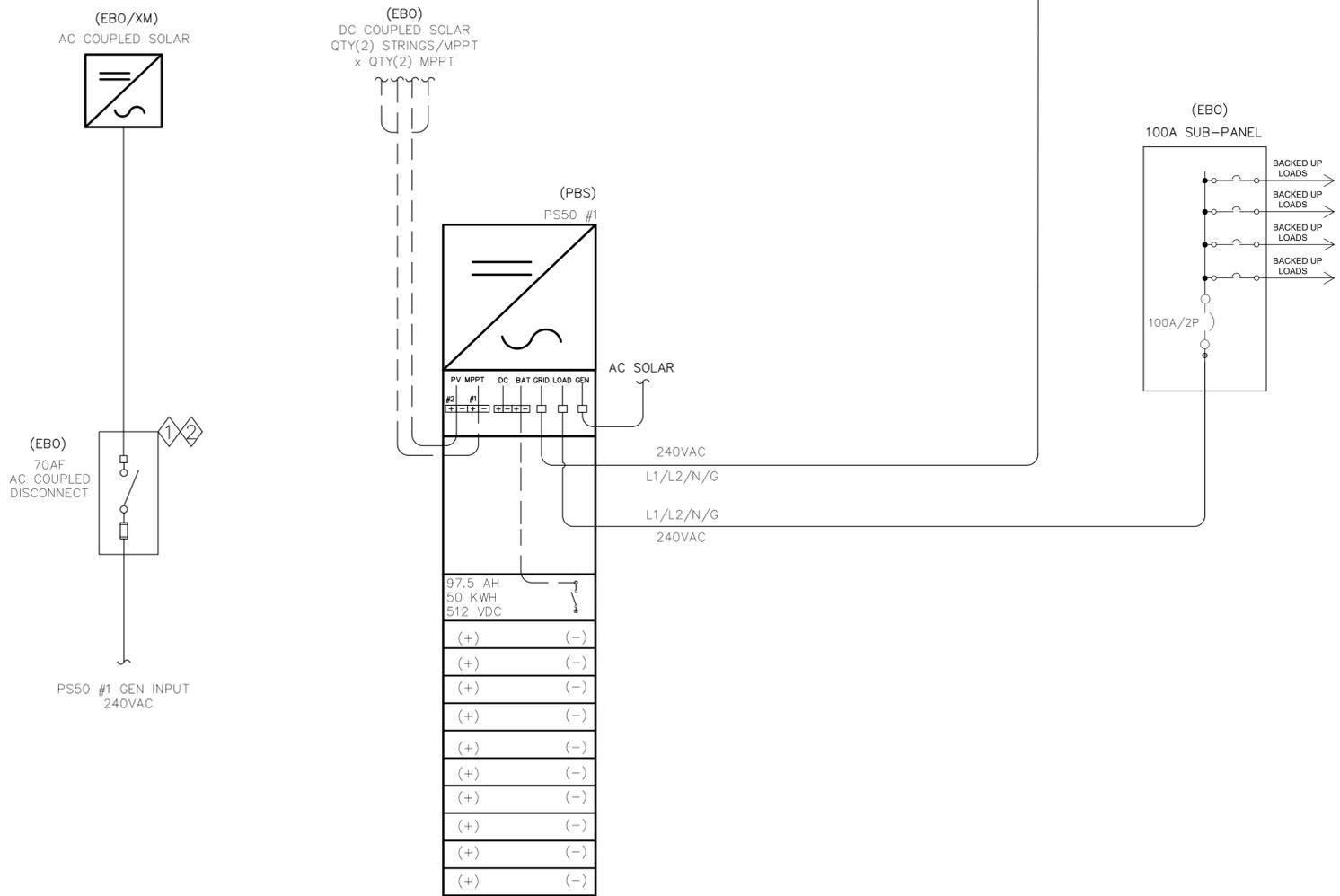
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- 24KW / 100A GRID PASS THROUGH
- CHARGE RATE: 6.5KW / INVERTER
- DISCHARGE RATE: 12.5KW / INVERTER



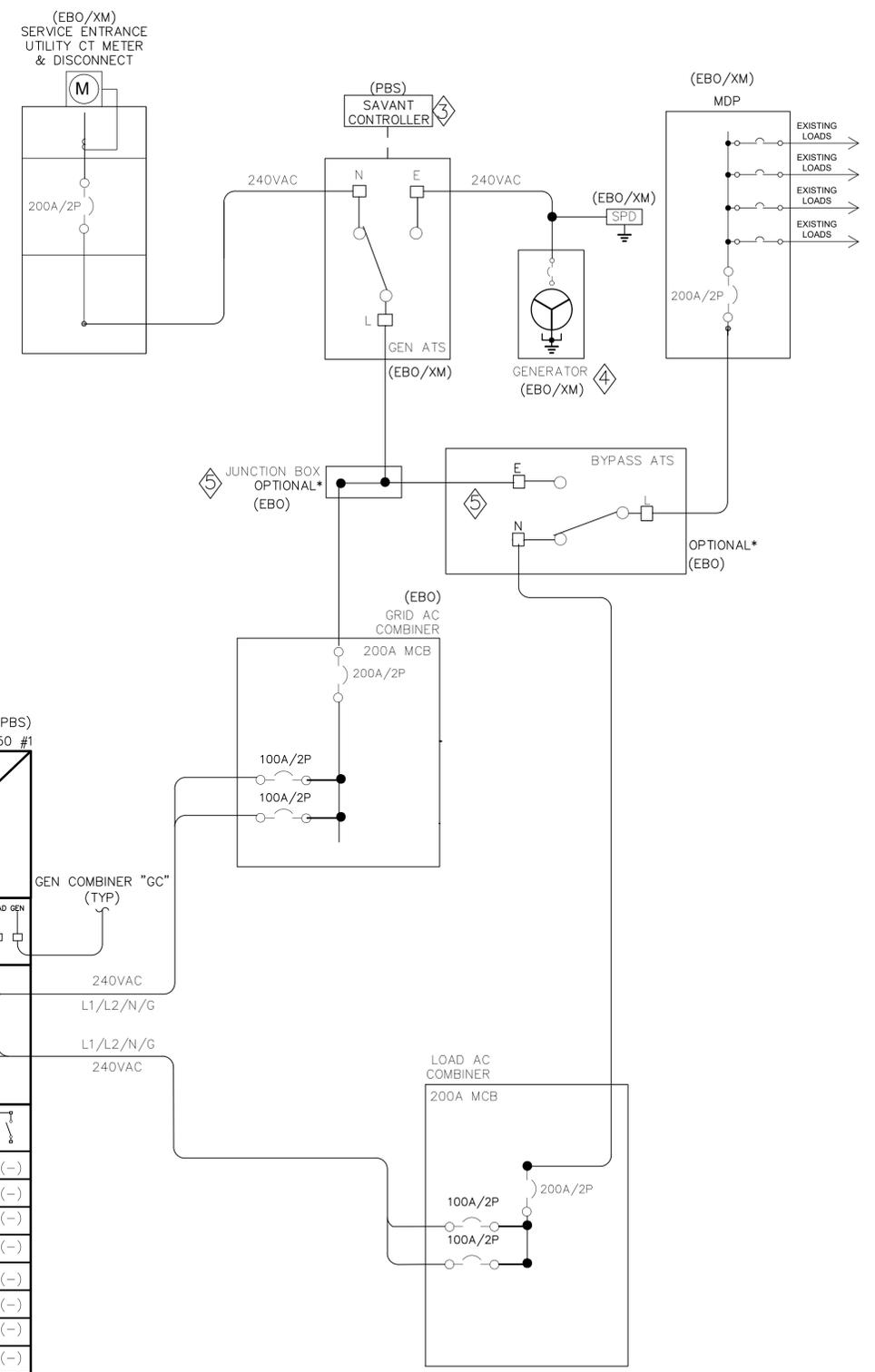
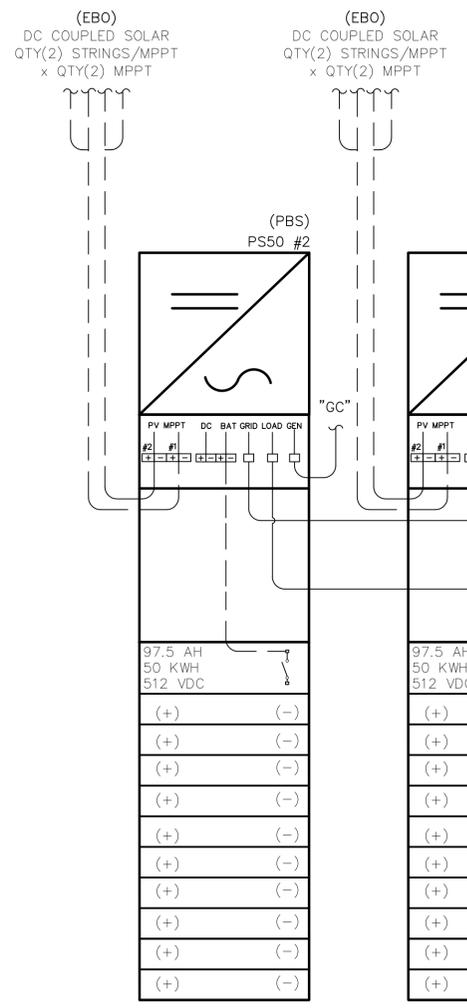
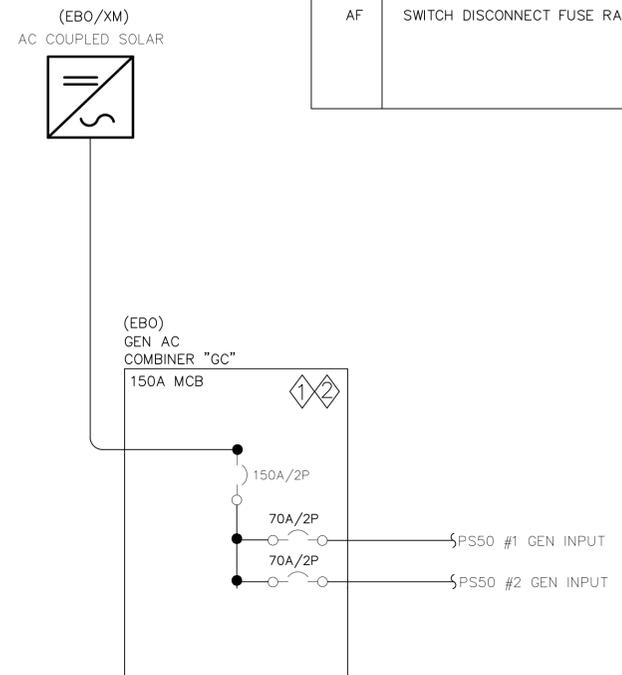
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INTER-DISCIPLINE REVIEW														DSGN			SAVANT POWER		JOB NUMBER	REV	
DISC	ARCH	CIVIL	ELECT	I&C	MECH	STRUCT									DRN	MAW	12-10-2025	RESIDENTIAL MICROGRID		-	00
DATE	*	*	*	*	*	*									CKD	JP		DRAWING NUMBER			
INIT	*	*	*	*	*	*	00	VERSION 00	12-10-2025	MAW					SCALE: AS NOTED		100A: 12.5KW - 50KWH PARTIAL BACKUP ESS PS50 ONELINE DIAGRAM (120/240V)		009-2651-00		
REV	REVISIONS						DATE	DRN	DSGN	CKD	APPD	CERTIFICATE OF REGISTRATION NO. X-0000									

200A POWER STORAGE 50 SYSTEM NOTES

1. 100KWH RATED ENERGY STORAGE
2. 25KW / 104A OFFGRID CONTINUOUS
3. QTY (4) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
4. QTY (2) 12.5KW AC COUPLED PV INPUT AT GEN TERMINAL
5. MAXIMUM AC+DC COUPLED SOLAR COMBINATION: 12.5KW / BATTERY STACK THROUGH
6. 48KW / 200A GRID PASS THROUGH
7. CHARGE RATE: 6.5KW / INVERTER
8. DISCHARGE RATE: 12.5KW / INVERTER

LEGEND & ABBREVIATIONS		KEYNOTE DRAWING NOTES	
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SPD	SURGE PROTECTION DEVICE	④	QTY (1) PS50 GRID TERMINAL INPUT IS RATED UP TO 24KW PER INVERTER FOR UTILITY OR 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.
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DATE	*	*	*	*	*	*	00	VERSION 00	12-10-2025	MAW														
INIT	*	*	*	*	*	*	REV																	
												DRN	MAW	12-10-2025	RESIDENTIAL MICROGRID		DRAWING NUMBER	00						
												CKD	JP		200A: 25KW - 100KWH ESS PS50 ONELINE DIAGRAM (120/240V)		DRAWING NUMBER	009-2652-00						
												SCALE:	AS NOTED		CERTIFICATE OF REGISTRATION NO. X-0000									

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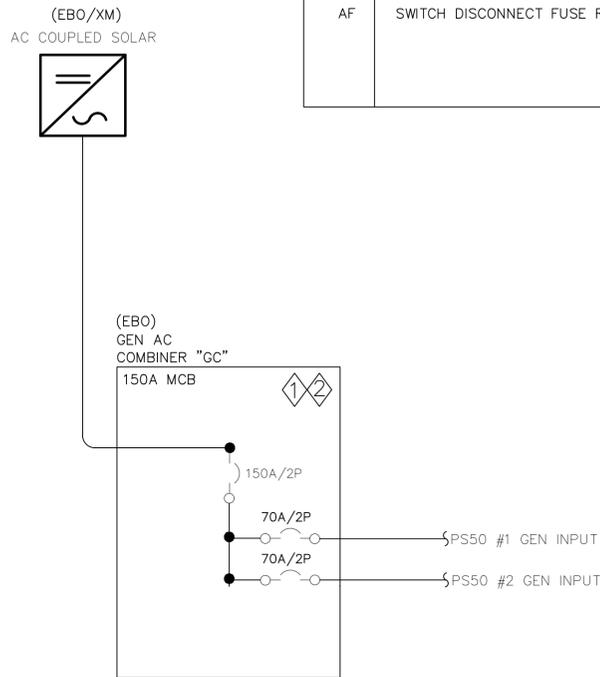
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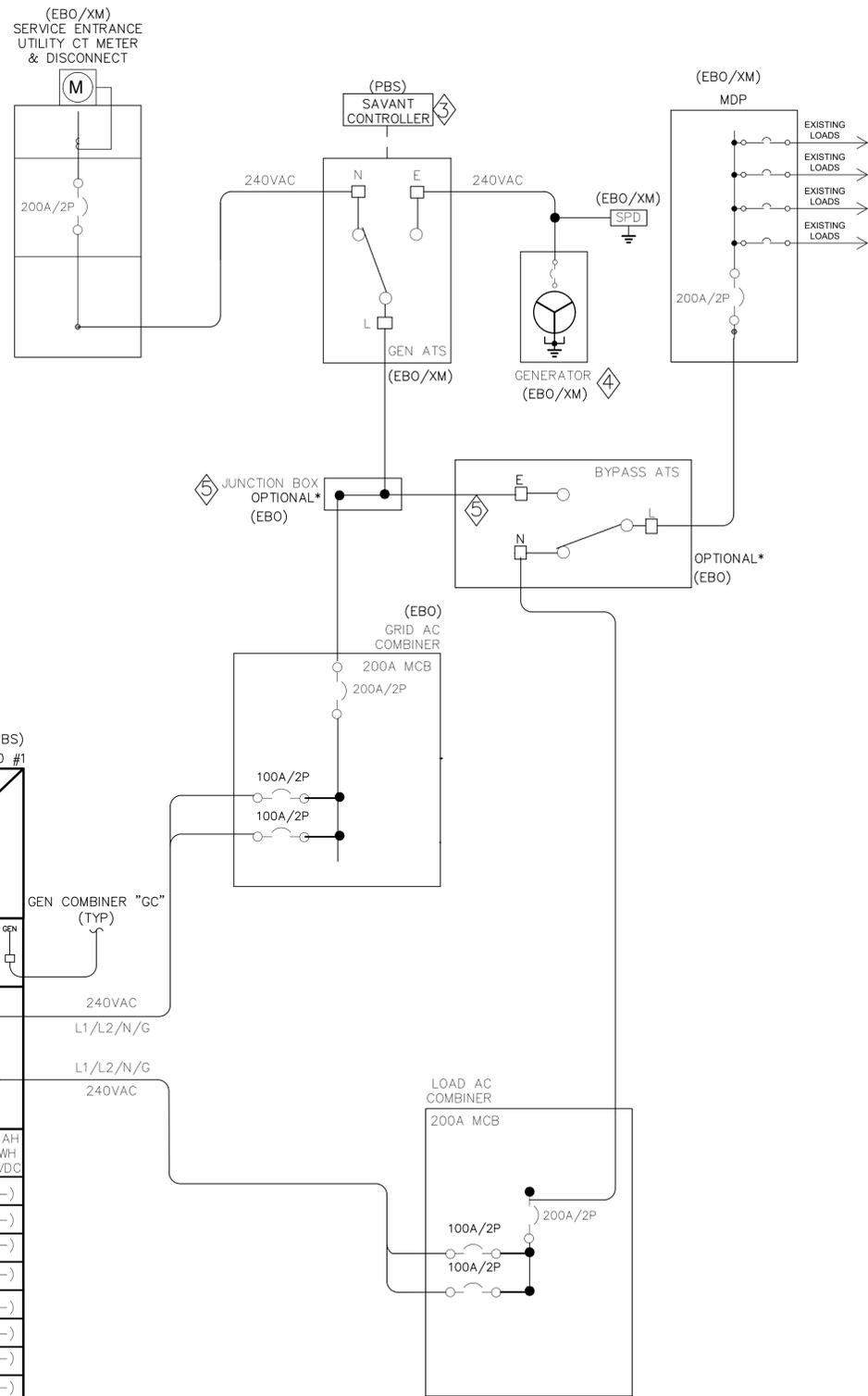
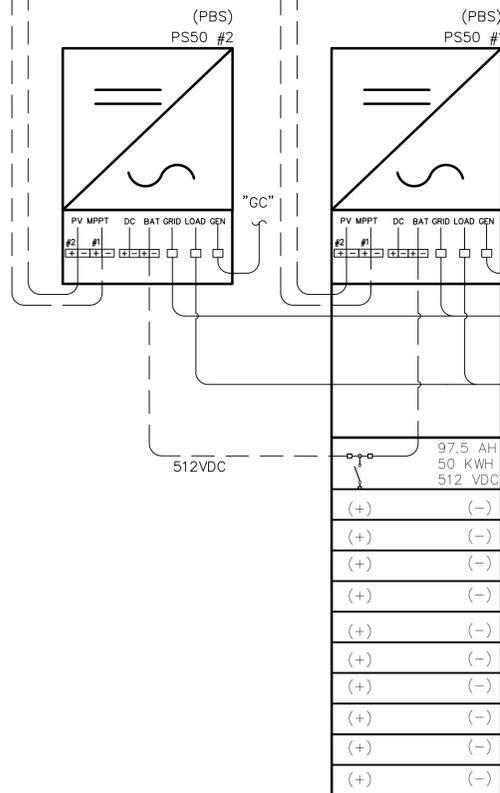
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(EBO) DC COUPLED SOLAR QTY(2) STRINGS/MPPT x QTY(2) MPPT

(EBO) DC COUPLED SOLAR QTY(2) STRINGS/MPPT x QTY(2) MPPT



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- OFF GRID CONTINUOUS: 25KW / 104A
- QTY (4) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
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25KW / BATTERY STACK

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

00	VERSION 00	12-10-2025	MAW						
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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 PS50 ONELINE DIAGRAM (120/240V)		DRAWING NUMBER	009-2654-00

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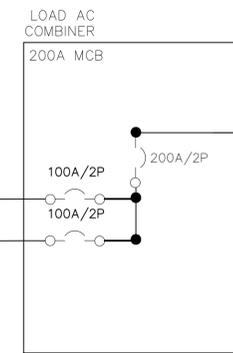
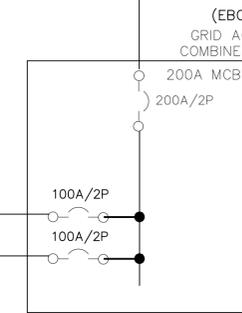
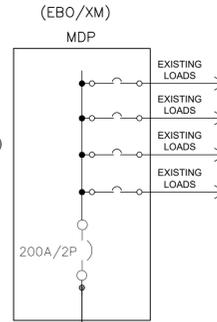
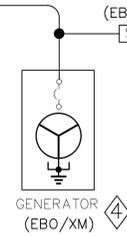
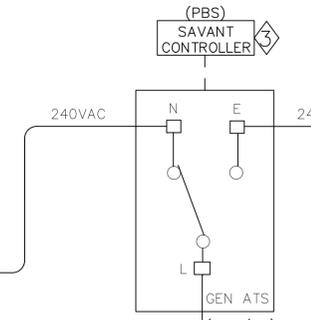
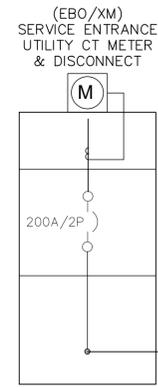
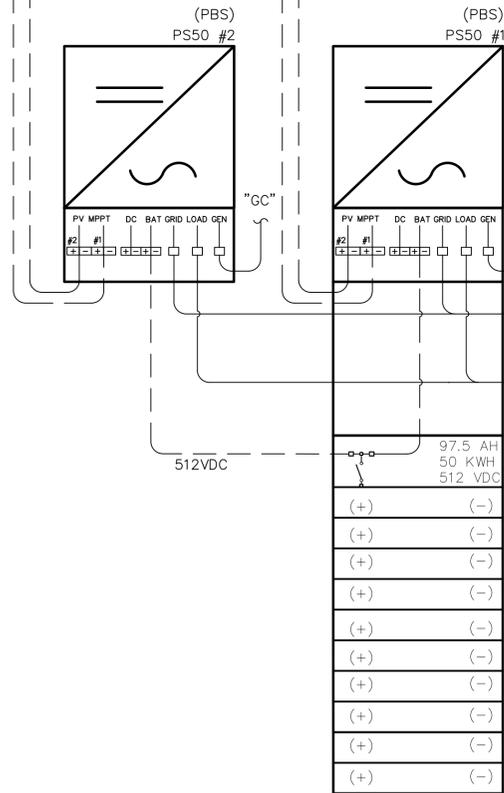
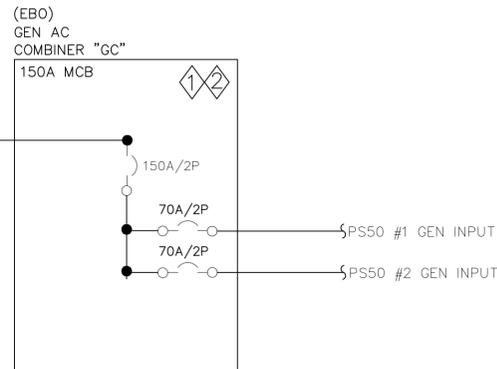
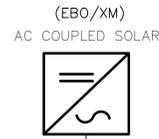
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INIT	*	*	*	*	*	*

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

DSGN	MAW	12-10-2025
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SCALE: AS NOTED		

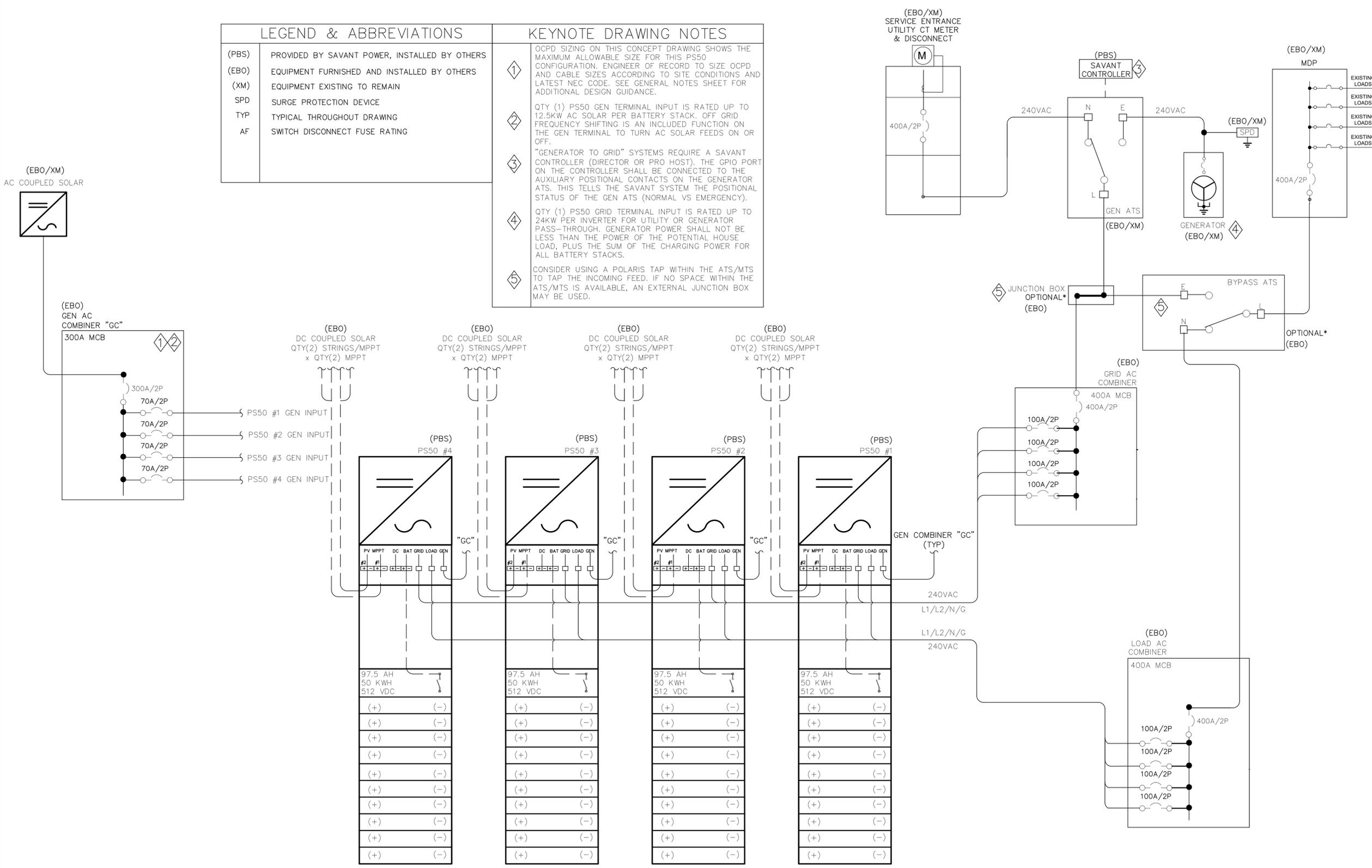
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SAVANT POWER	JOB NUMBER	REV
RESIDENTIAL MICROGRID	-	00
200A: 25KW - 50KWH ESS PS50 ONELINE DIAGRAM (120/240V)	DRAWING NUMBER	
	009-2655-00	

400A POWER STORAGE 50 SYSTEM NOTES

1. 200KWH RATED ENERGY STORAGE
2. OFFGRID CONTINUOUS: 50KW / 208A
3. QTY (8) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
4. QTY (4) 12.5KW AC COUPLED PV INPUT AT GEN TERMINAL MAXIMUM AC+DC COUPLED SOLAR COMBINATION: 12.5KW / BATTERY STACK
5. 96KW / 400A GRID PASS THROUGH
7. CHARGE RATE: 6.5KW / INVERTER
8. DISCHARGE RATE: 12.5KW / INVERTER

LEGEND & ABBREVIATIONS		KEYNOTE DRAWING NOTES	
(PBS)	PROVIDED BY SAVANT POWER, INSTALLED BY OTHERS	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.
(EBO)	EQUIPMENT FURNISHED AND INSTALLED BY OTHERS	2	QTY (1) PS50 GEN TERMINAL INPUT IS RATED UP TO 12.5KW AC SOLAR PER BATTERY STACK. OFF GRID FREQUENCY SHIFTING IS AN INCLUDED FUNCTION ON THE GEN TERMINAL TO TURN AC SOLAR FEEDS ON OR OFF.
(XM)	EQUIPMENT EXISTING TO REMAIN	3	"GENERATOR TO GRID" SYSTEMS REQUIRE A SAVANT CONTROLLER (DIRECTOR OR PRO HOST). THE GPIO PORT ON THE CONTROLLER SHALL BE CONNECTED TO THE AUXILIARY POSITIONAL CONTACTS ON THE GENERATOR ATS. THIS TELLS THE SAVANT SYSTEM THE POSITIONAL STATUS OF THE GEN ATS (NORMAL VS EMERGENCY).
SPD	SURGE PROTECTION DEVICE	4	QTY (1) PS50 GRID TERMINAL INPUT IS RATED UP TO 24KW PER INVERTER FOR UTILITY OR 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.
TYP	TYPICAL THROUGHOUT DRAWING	5	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.
AF	SWITCH DISCONNECT FUSE RATING		



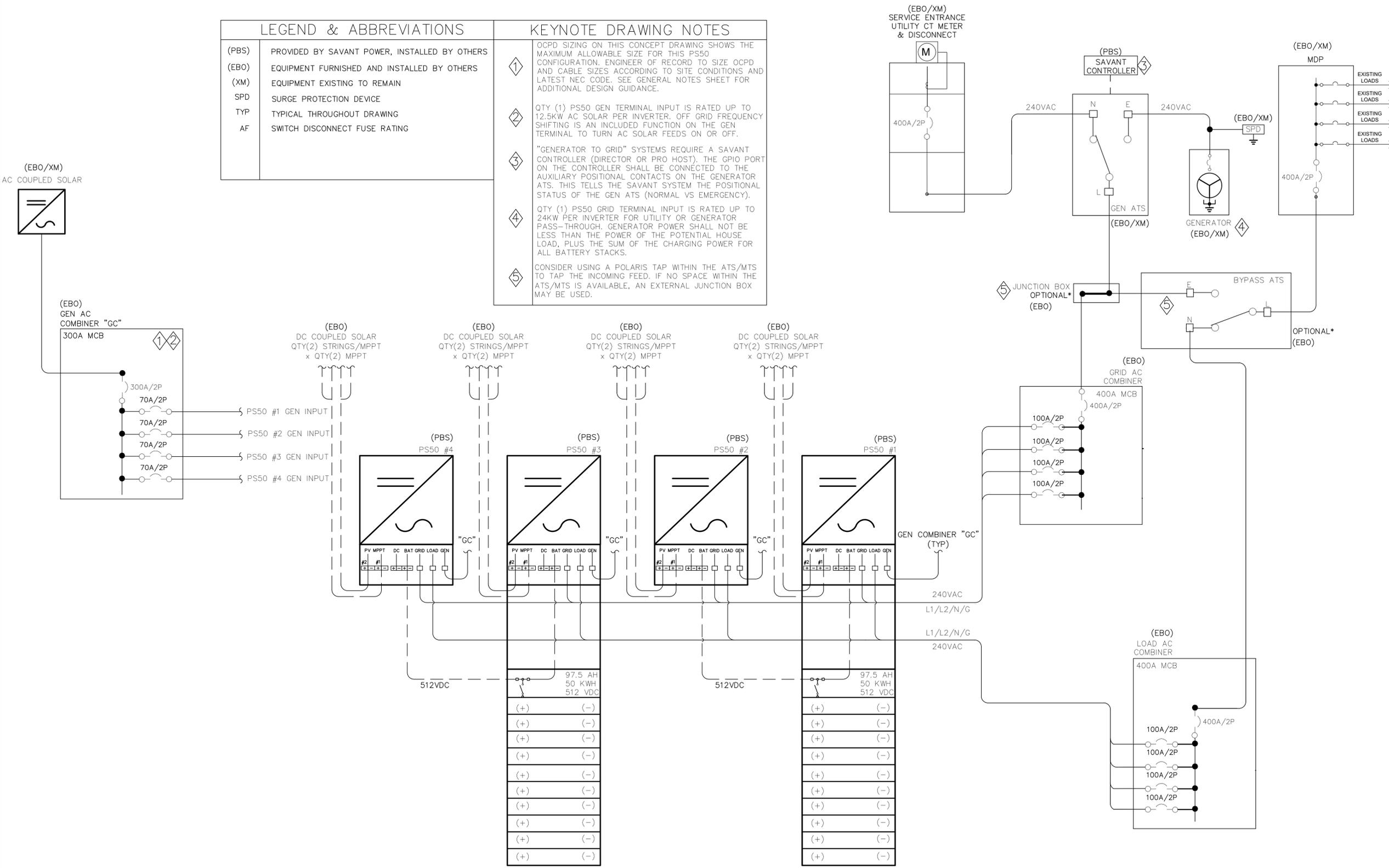
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INTER-DISCIPLINE REVIEW														DSGN			SAVANT POWER		JOB NUMBER	REV	
DISC	ARCH	CIVIL	ELECT	I&C	MECH	STRUCT									DRN	MAW	12-10-2025	RESIDENTIAL MICROGRID		-	00
DATE	*	*	*	*	*	*									CKD	JP		DRAWING NUMBER			
INIT	*	*	*	*	*	*	00	VERSION 00	12-10-2025	MAW					SCALE: AS NOTED		400A: 50KW - 200KWH ESS PS50 ONLINE DIAGRAM (120/240V)		009-2656-00		
REV	REVISIONS						DATE	DRN	DSGN	CKD	APPD	CERTIFICATE OF REGISTRATION NO. X-0000									

400A POWER STORAGE 50 SYSTEM NOTES

1. 100KWH RATED ENERGY STORAGE
2. OFFGRID CONTINUOUS: 50KW / 208A
3. QTY (8) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
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5. 96KW / 400A GRID PASS THROUGH
6. CHARGE RATE: 6.5KW / INVERTER
7. 13KW / BATTERY STACK
8. DISCHARGE RATE: 12.5KW / INVERTER
9. 25KW / BATTERY STACK

LEGEND & ABBREVIATIONS		KEYNOTE DRAWING NOTES	
(PBS)	PROVIDED BY SAVANT POWER, INSTALLED BY OTHERS	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.
(EBO)	EQUIPMENT FURNISHED AND INSTALLED BY OTHERS	②	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.
(XM)	EQUIPMENT EXISTING TO REMAIN	③	"GENERATOR TO GRID" SYSTEMS REQUIRE A SAVANT CONTROLLER (DIRECTOR OR PRO HOST). THE GPIO PORT ON THE CONTROLLER SHALL BE CONNECTED TO THE AUXILIARY POSITIONAL CONTACTS ON THE GENERATOR ATS. THIS TELLS THE SAVANT SYSTEM THE POSITIONAL STATUS OF THE GEN ATS (NORMAL VS EMERGENCY).
SPD	SURGE PROTECTION DEVICE	④	QTY (1) PS50 GRID TERMINAL INPUT IS RATED UP TO 24KW PER INVERTER FOR UTILITY OR 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.
TYP	TYPICAL THROUGHOUT DRAWING	⑤	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.
AF	SWITCH DISCONNECT FUSE RATING		



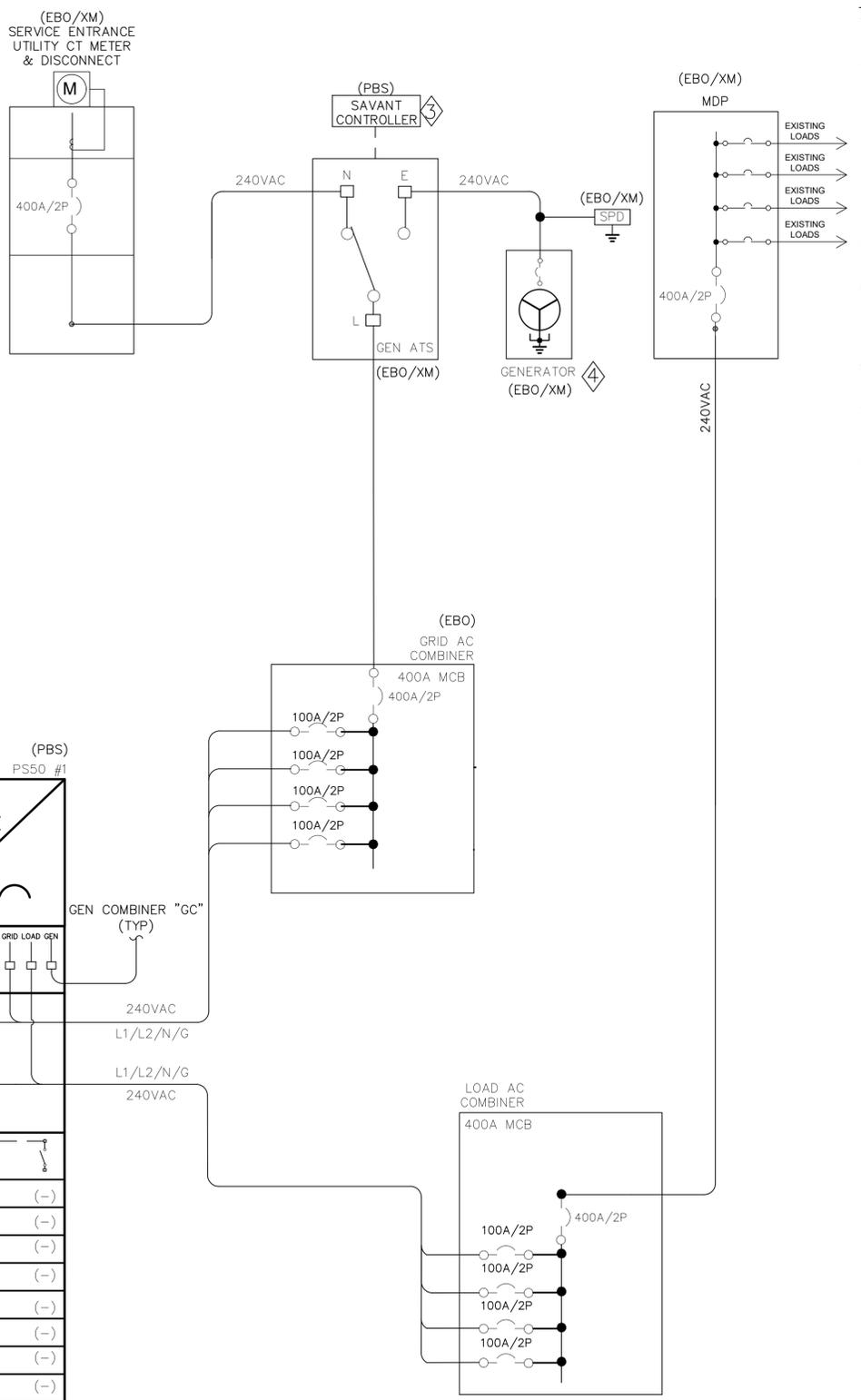
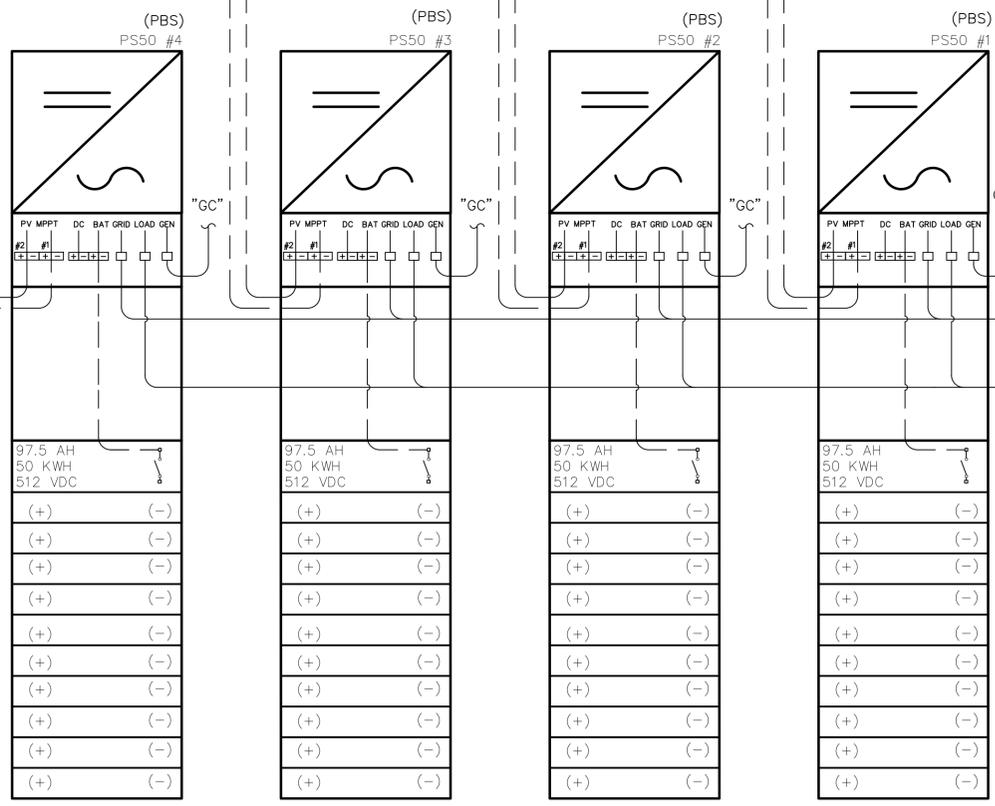
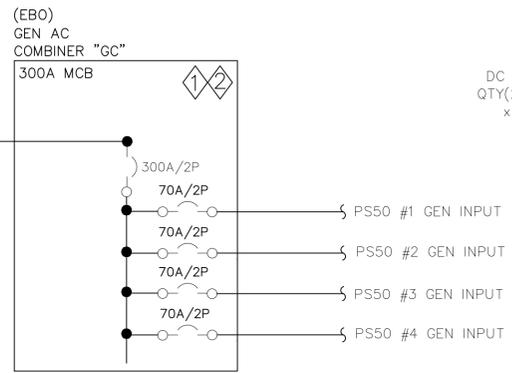
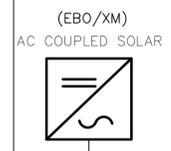
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INTER-DISCIPLINE REVIEW														DSGN			SAVANT POWER			JOB NUMBER		REV			
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DATE	*	*	*	*	*	*										CKD	JP		400A: 50KW - 100KWH ESS			009-2658-00		00	
INIT	*	*	*	*	*	*	00	VERSION 00	12-10-2025	MAW						SCALE: AS NOTED			PS50 ONELINE DIAGRAM (120/240V)						
REV								REVISIONS	DATE	DRN	DSGN	CKD	APPD			CERTIFICATE OF REGISTRATION NO. X-0000									

400A POWER STORAGE 50 SYSTEM NOTES

1. 200KWH RATED ENERGY STORAGE
2. OFFGRID CONTINUOUS: 50KW / 208A
3. QTY (8) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
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5. 96KW / 400A GRID PASS THROUGH
7. CHARGE RATE: 6.5KW / INVERTER
8. DISCHARGE RATE: 12.5KW / INVERTER

LEGEND & ABBREVIATIONS		KEYNOTE DRAWING NOTES	
(PBS)	PROVIDED BY SAVANT POWER, INSTALLED BY OTHERS	①	OCPP 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.
(EBO)	EQUIPMENT FURNISHED AND INSTALLED BY OTHERS	②	QTY (1) PS50 GEN TERMINAL INPUT IS RATED UP TO 12.5KW AC SOLAR PER BATTERY STACK. OFF GRID FREQUENCY SHIFTING IS AN INCLUDED FUNCTION ON THE GEN TERMINAL TO TURN AC SOLAR FEEDS ON OR OFF.
(XM)	EQUIPMENT EXISTING TO REMAIN	③	"GENERATOR TO GRID" SYSTEMS REQUIRE A SAVANT CONTROLLER (DIRECTOR OR PRO HOST). THE GPIO PORT ON THE CONTROLLER SHALL BE CONNECTED TO THE AUXILIARY POSITIONAL CONTACTS ON THE GENERATOR ATS. THIS TELLS THE SAVANT SYSTEM THE POSITIONAL STATUS OF THE GEN ATS (NORMAL VS EMERGENCY).
SPD	SURGE PROTECTION DEVICE	④	QTY (1) PS50 GRID TERMINAL INPUT IS RATED UP TO 24KW PER INVERTER FOR UTILITY OR 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.
TYP	TYPICAL THROUGHOUT DRAWING		
AF	SWITCH DISCONNECT FUSE RATING		



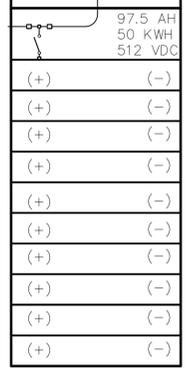
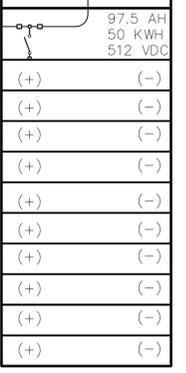
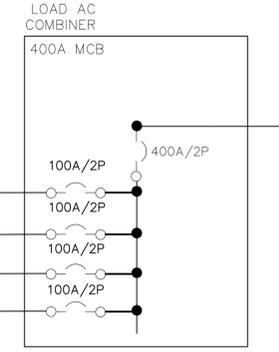
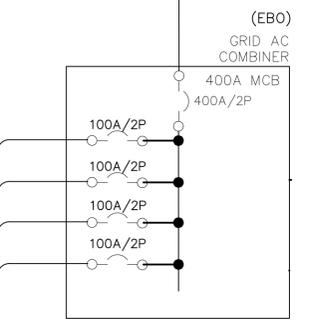
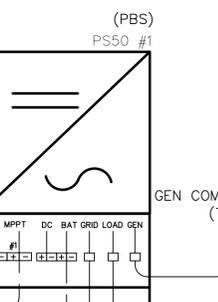
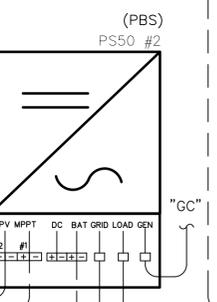
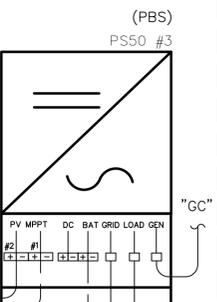
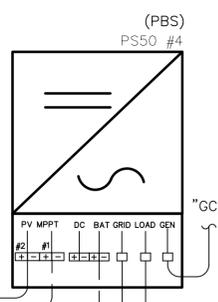
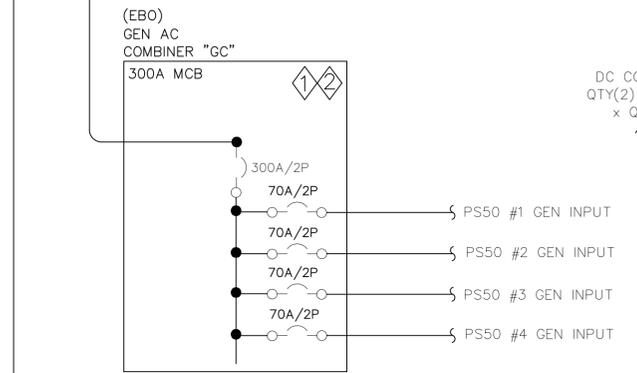
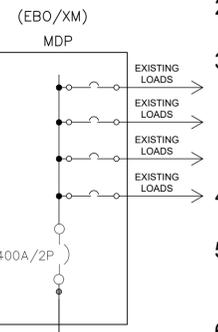
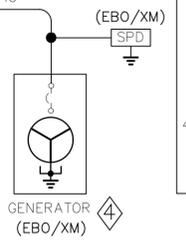
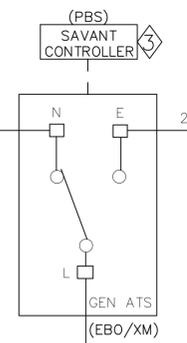
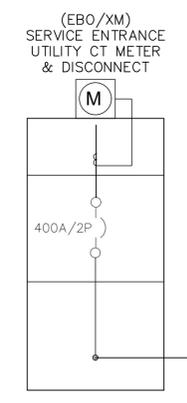
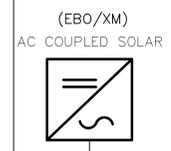
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INTER-DISCIPLINE REVIEW														DSGN			SAVANT POWER		JOB NUMBER	REV			
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DATE	*	*	*	*	*	*									CKD	JP				DRAWING NUMBER			
INIT	*	*	*	*	*	*	00	VERSION 00	12-10-2025	MAW					SCALE: AS NOTED				400A: 50KW - 200KWH ESS PS50 ONLINE DIAGRAM (120/240V)		009-2657-00		
REV								REVISIONS	DATE	DRN	DSGN	CKD	APPD										
													CERTIFICATE OF REGISTRATION NO. X-0000										

400A POWER STORAGE 50 SYSTEM NOTES

1. 100KWH RATED ENERGY STORAGE
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3. QTY (8) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
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5. 96KW / 400A GRID PASS THROUGH
7. CHARGE RATE: 6.5KW / INVERTER
13KW / BATTERY STACK
8. DISCHARGE RATE: 12.5KW / INVERTER
25KW / BATTERY STACK

LEGEND & ABBREVIATIONS		KEYNOTE DRAWING NOTES	
(PBS)	PROVIDED BY SAVANT POWER, INSTALLED BY OTHERS	①	OCPP SIZING ON THIS CONCEPT DRAWING SHOWS THE MAXIMUM ALLOWABLE SIZE FOR THIS PS50 CONFIGURATION. ENGINEER OF RECORD TO SIZE OCPP AND CABLE SIZES ACCORDING TO SITE CONDITIONS AND LATEST NEC CODE. SEE GENERAL NOTES SHEET FOR ADDITIONAL DESIGN GUIDANCE.
(EBO)	EQUIPMENT FURNISHED AND INSTALLED BY OTHERS	②	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.
(XM)	EQUIPMENT EXISTING TO REMAIN	③	"GENERATOR TO GRID" SYSTEMS REQUIRE A SAVANT CONTROLLER (DIRECTOR OR PRO HOST). THE GPIO PORT ON THE CONTROLLER SHALL BE CONNECTED TO THE AUXILIARY POSITIONAL CONTACTS ON THE GENERATOR ATS. THIS TELLS THE SAVANT SYSTEM THE POSITIONAL STATUS OF THE GEN ATS (NORMAL VS EMERGENCY).
SPD	SURGE PROTECTION DEVICE	④	QTY (1) PS50 GRID TERMINAL INPUT IS RATED UP TO 24KW PER INVERTER FOR UTILITY OR 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.
TYP	TYPICAL THROUGHOUT DRAWING		
AF	SWITCH DISCONNECT FUSE RATING		



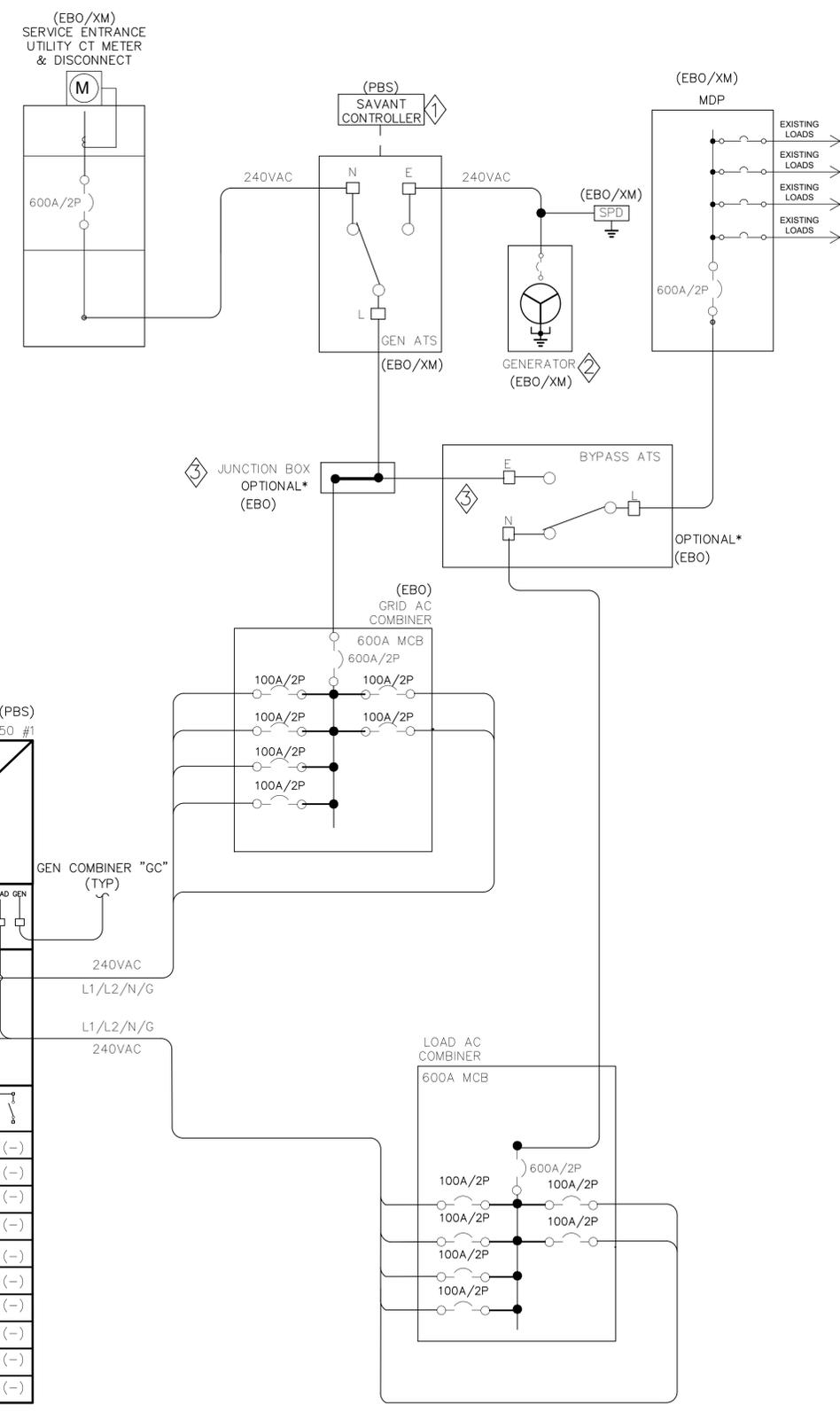
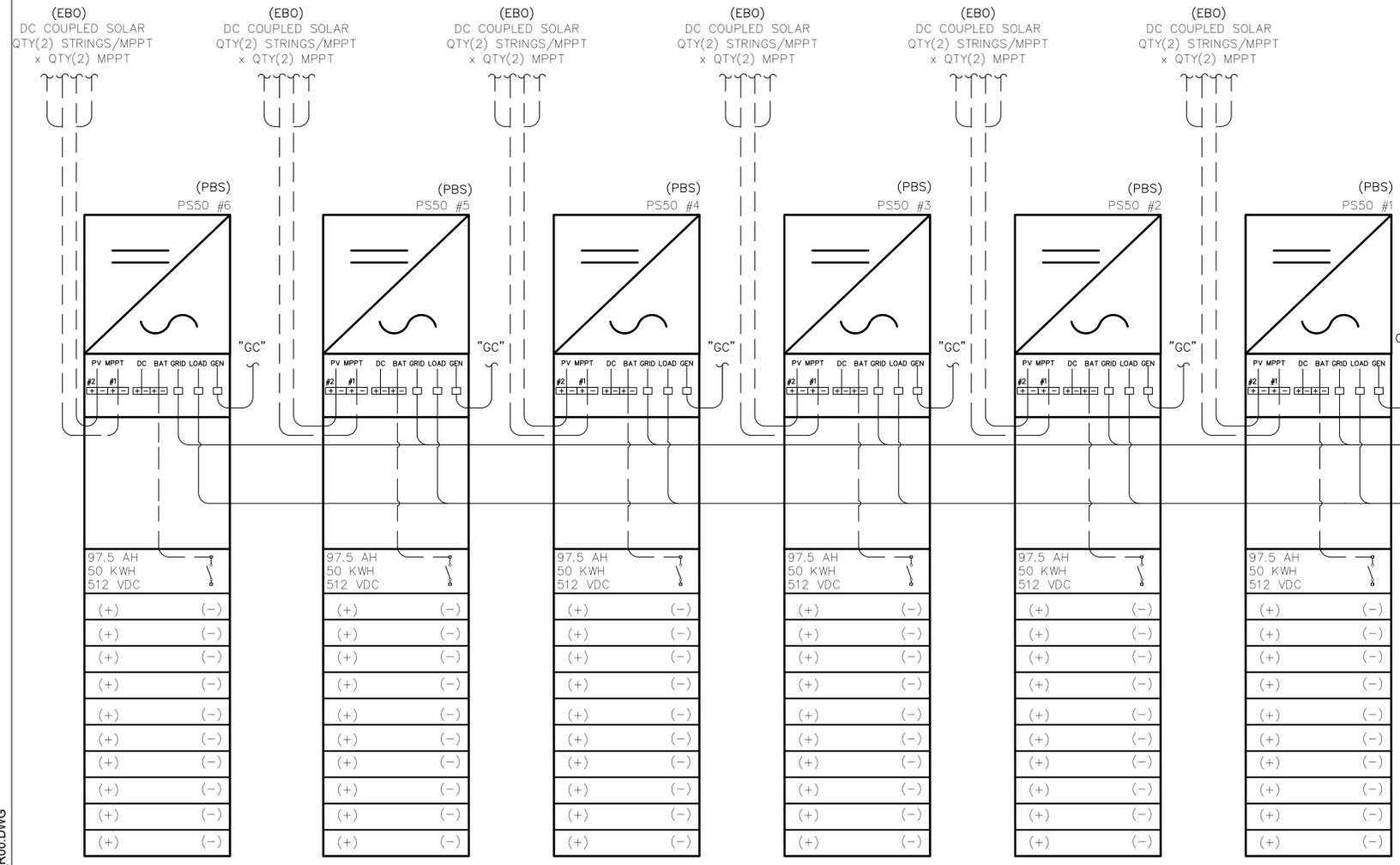
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INTER-DISCIPLINE REVIEW														DSGN			SAVANT POWER			JOB NUMBER		REV		
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DATE	*	*	*	*	*	*																		
INIT	*	*	*	*	*	*																		
REV	00	VERSION 00						12-10-2025	MAW															
		REVISIONS						DATE	DRN	DSGN	CKD	APPD												
													MAW	12-10-2025	SCALE: AS NOTED			DRAWING NUMBER			009-2659-00			
													CERTIFICATE OF REGISTRATION NO. X-0000			400A: 50KW - 100KWH ESS PS50 ONELINE DIAGRAM (120/240V)								

600A POWER STORAGE 50 SYSTEM NOTES

1. 300KWH RATED ENERGY STORAGE
2. OFFGRID CONTINUOUS: 75KW / 312.5A
3. QTY (12) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
4. QTY (6) 12.5KW AC COUPLED PV INPUT AT GEN TERMINAL
5. MAXIMUM AC+DC COUPLED SOLAR COMBINATION: 12.5KW / BATTERY STACK
6. 144KW / 600A GRID PASS THROUGH
7. CHARGE RATE: 6.5KW / INVERTER
8. DISCHARGE RATE: 12.5KW / INVERTER

LEGEND & ABBREVIATIONS		KEYNOTE DRAWING NOTES		
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(XM)	EQUIPMENT EXISTING TO REMAIN			3
SPD	SURGE PROTECTION DEVICE			
TYP	TYPICAL THROUGHOUT DRAWING			
AF	SWITCH DISCONNECT FUSE RATING			



PS50_GEN TO GRID_12_10_2025_V00_R00.DWG

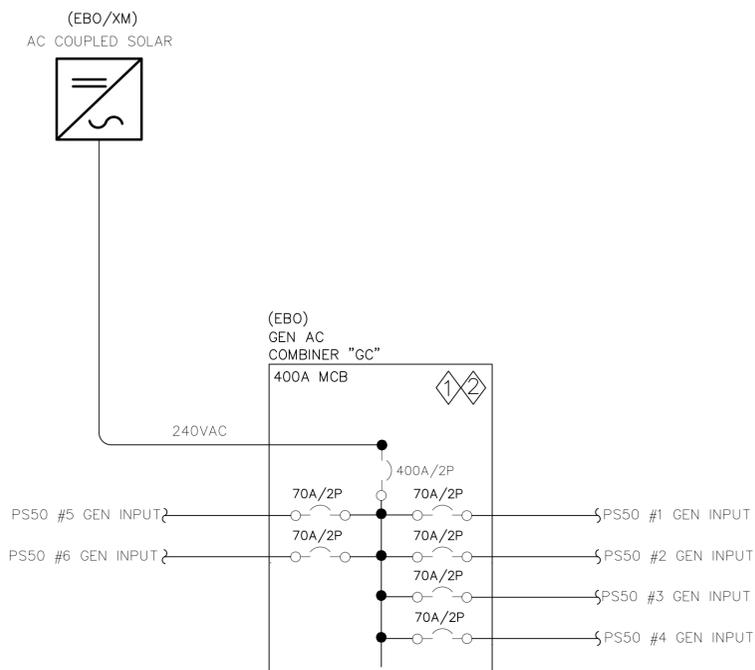
INTER-DISCIPLINE REVIEW							REVISIONS							SAVANT POWER			JOB NUMBER		REV	
DISC	ARCH	CIVIL	ELECT	I&C	MECH	STRUCT	REV	VERSION	DATE	DRN	DSGN	CKD	APPD	RESIDENTIAL MICROGRID			DRAWING NUMBER		REV	
							00	VERSION 00	12-10-2025	MAW				600A: 75KW - 300KWH ESS PS50 ONLINE DIAGRAM (120/240V)			009-2660-00		00	
														CERTIFICATE OF REGISTRATION NO. X-0000						

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

600A POWER STORAGE 50 SYSTEM NOTES

- 300KWH RATED ENERGY STORAGE
- OFFGRID CONTINUOUS: 75KW / 312.5A
- QTY (12) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
- QTY (6) 12.5KW AC COUPLED PV INPUT AT GEN TERMINAL
- MAXIMUM AC+DC COUPLED SOLAR COMBINATION: 12.5KW / BATTERY STACK
- 144KW / 600A GRID PASS THROUGH
- CHARGE RATE: 6.5KW / INVERTER
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LEGEND & ABBREVIATIONS		KEYNOTE DRAWING NOTES	
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TYP	TYPICAL THROUGHOUT DRAWING		
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PS50_GEN TO GRID_12_10_2025_V00_R00.DWG

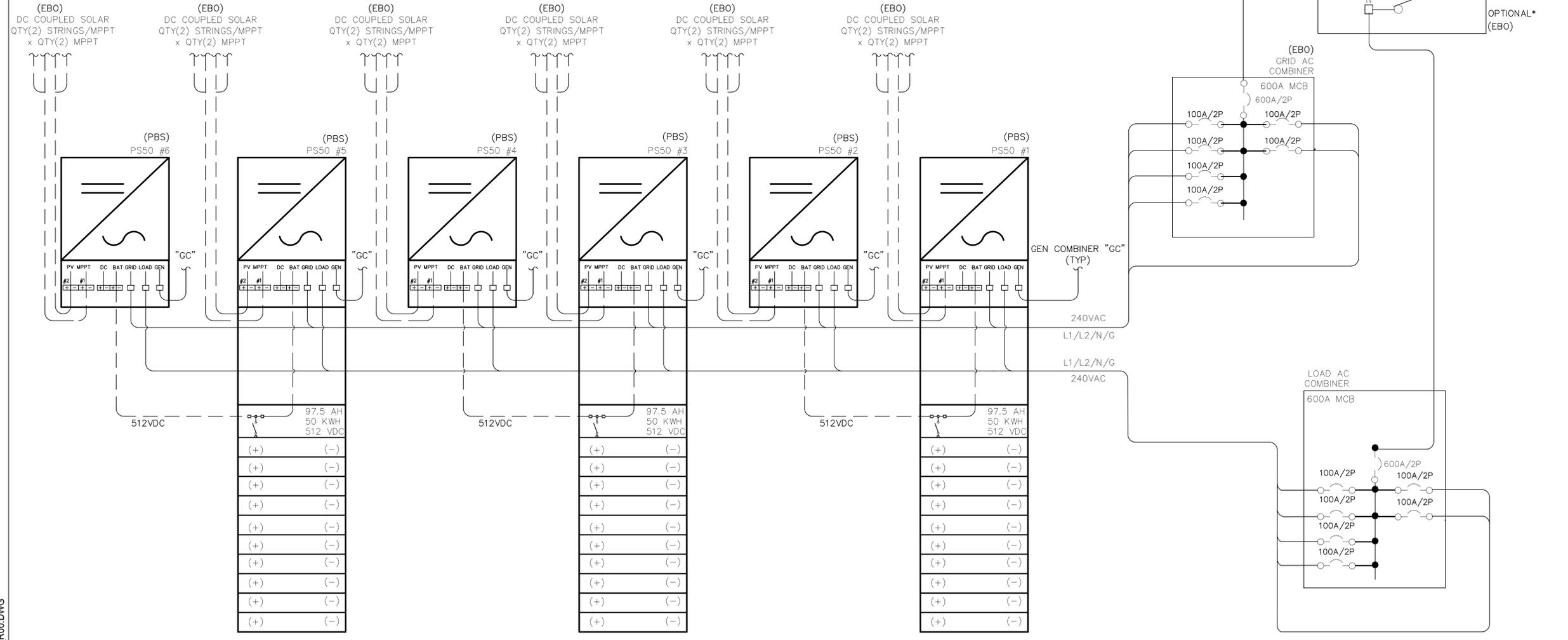
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DISC	ARCH	CIVIL	ELECT	I&C	MECH	STRUCT	DRN	JP	RESIDENTIAL MICROGRID	-	00	
DATE	*	*	*	*	*	*	CKD	JP	600A: 75KW - 300KWH ESS			
INIT	*	*	*	*	*	*	SCALE:	AS NOTED	PS50 ONELINE DIAGRAM (120/240V)		009-2661-00	
REV	REVISIONS						DATE	DRN	DSGN	CKD	APPD	

CERTIFICATE OF REGISTRATION NO. X-0000

600A POWER STORAGE 50 SYSTEM NOTES

- 150KWH RATED ENERGY STORAGE
- OFFGRID CONTINUOUS: 75KW / 312.5A
- QTY (12) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
- QTY (6) 12.5KW AC COUPLED PV INPUT AT GEN TERMINAL MAXIMUM AC+DC COUPLED SOLAR COMBINATION: 12.5KW / INVERTER
- 144KW / 600A GRID PASS THROUGH
- CHARGE RATE: 6.5KW / INVERTER
13KW / BATTERY STACK
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LEGEND & ABBREVIATIONS		KEYNOTE DRAWING NOTES		
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SPD	SURGE PROTECTION DEVICE			
TYP	TYPICAL THROUGHOUT DRAWING			
AF	SWITCH DISCONNECT FUSE RATING			



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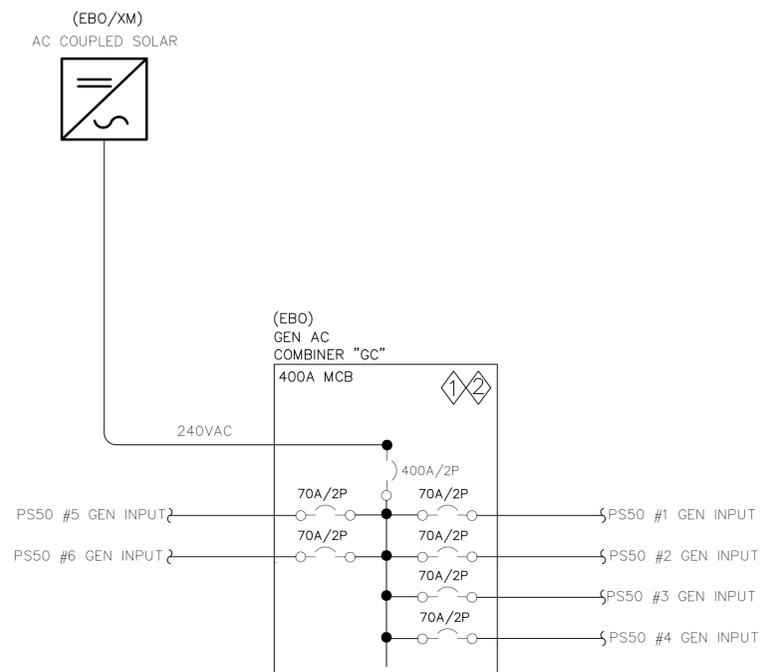
INTER-DISCIPLINE REVIEW							REVISIONS							SAVANT POWER			JOB NUMBER		REV	
DISC	ARCH	CIVIL	ELECT	I&C	MECH	STRUCT	REV	VERSION	DATE	DRN	DSGN	CKD	APPD	RESIDENTIAL MICROGRID			DRAWING NUMBER		REV	
	*	*	*	*	*	*	00	VERSION 00	12-10-2025	MAW				600A: 75KW - 150KWH ESS PS50 ONELINE DIAGRAM (120/240V)			009-2664-00		00	
DATE	*	*	*	*	*	*								CERTIFICATE OF REGISTRATION NO. X-0000						
INIT	*	*	*	*	*	*														

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

600A POWER STORAGE 50 SYSTEM NOTES

- 150KWH RATED ENERGY STORAGE
- OFFGRID CONTINUOUS: 75KW / 312.5A
- QTY (12) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
- QTY (6) 12.5KW AC COUPLED PV INPUT AT GEN TERMINAL
- MAXIMUM AC+DC COUPLED SOLAR COMBINATION: 12.5KW / INVERTER
- 144KW / 600A GRID PASS THROUGH
- CHARGE RATE: 6.5KW / INVERTER
13KW / BATTERY STACK
- DISCHARGE RATE: 12.5KW / INVERTER
25KW / BATTERY STACK

LEGEND & ABBREVIATIONS		KEYNOTE DRAWING NOTES	
(PBS)	PROVIDED BY SAVANT POWER, INSTALLED BY OTHERS	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.
(EBO)	EQUIPMENT FURNISHED AND INSTALLED BY OTHERS	②	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.
(XM)	EQUIPMENT EXISTING TO REMAIN		
SPD	SURGE PROTECTION DEVICE		
TYP	TYPICAL THROUGHOUT DRAWING		
AF	SWITCH DISCONNECT FUSE RATING		

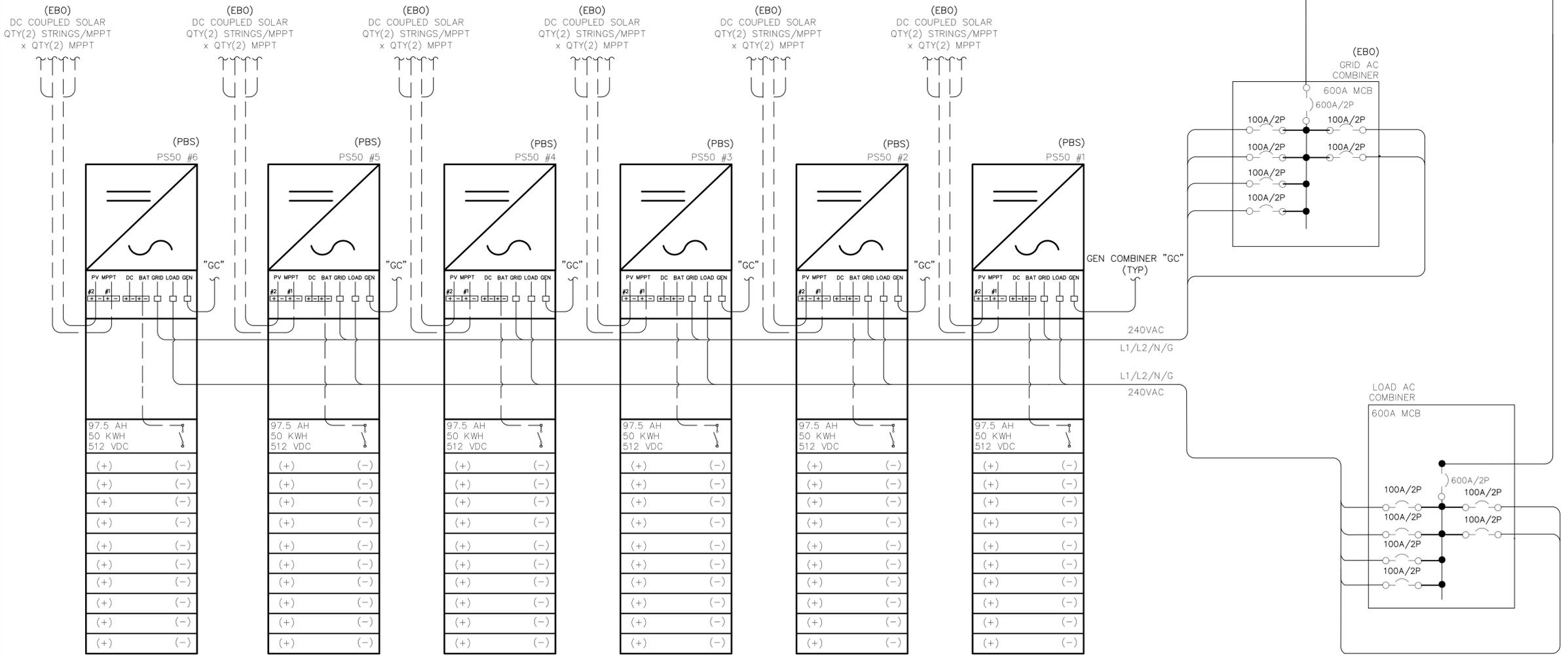


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INTER-DISCIPLINE REVIEW														DSGN			SAVANT POWER		JOB NUMBER		REV	
DISC	ARCH	CIVIL	ELECT	I&C	MECH	STRUCT									DRN	MAW	12-10-2025	RESIDENTIAL MICROGRID		-		△
DATE	*	*	*	*	*	*									CKD	JP		DRAWING NUMBER		009-2665-00		
INIT	*	*	*	*	*	*	00	VERSION 00	12-10-2025	MAW					SCALE: AS NOTED		600A: 75KW - 150KWH ESS PS50 ONELINE DIAGRAM (120/240V)					
							REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD			CERTIFICATE OF REGISTRATION NO. X-0000						

LEGEND & ABBREVIATIONS		KEYNOTE DRAWING NOTES	
(PBS)	PROVIDED BY SAVANT POWER, INSTALLED BY OTHERS	①	"GENERATOR TO GRID" SYSTEMS REQUIRE A SAVANT CONTROLLER (DIRECTOR OR PRO HOST). THE GPIO PORT ON THE CONTROLLER SHALL BE CONNECTED TO THE AUXILIARY POSITIONAL CONTACTS ON THE GENERATOR ATS. THIS TELLS THE SAVANT SYSTEM THE POSITIONAL STATUS OF THE GEN ATS (NORMAL VS EMERGENCY).
(EBO)	EQUIPMENT FURNISHED AND INSTALLED BY OTHERS		②
(XM)	EQUIPMENT EXISTING TO REMAIN		
SPD	SURGE PROTECTION DEVICE		
TYP	TYPICAL THROUGHOUT DRAWING		
AF	SWITCH DISCONNECT FUSE RATING		

- 600A POWER STORAGE 50 SYSTEM NOTES**
- 300KWH RATED ENERGY STORAGE
 - OFFGRID CONTINUOUS: 75KW / 312.5A
 - QTY (12) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
 - QTY (6) 12.5KW AC COUPLED PV INPUT AT GEN TERMINAL MAXIMUM AC+DC COUPLED SOLAR COMBINATION: 12.5KW / BATTERY STACK
 - 144KW / 600A GRID PASS THROUGH
 - CHARGE RATE: 6.5KW / INVERTER
 - DISCHARGE RATE: 12.5KW / INVERTER



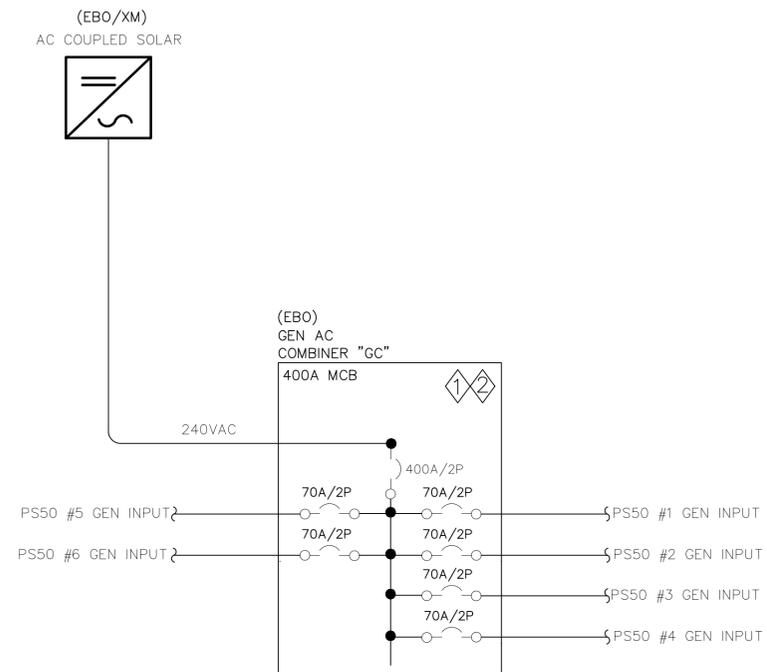
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INTER-DISCIPLINE REVIEW								REVISIONS				DSGN			SAVANT POWER		JOB NUMBER		REV	
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INIT	*	*	*	*	*	*	00	VERSION 00	12-10-2025	MAW				SCALE: AS NOTED			PS50 ONLINE DIAGRAM (120/240V)			
							REV										CERTIFICATE OF REGISTRATION NO. X-0000			

600A POWER STORAGE 50 SYSTEM NOTES

1. 300KWH RATED ENERGY STORAGE
2. OFFGRID CONTINUOUS: 75KW / 312.5A
3. QTY (12) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
4. QTY (6) 12.5KW AC COUPLED PV INPUT AT GEN TERMINAL
5. MAXIMUM AC+DC COUPLED SOLAR COMBINATION: 12.5KW / BATTERY STACK
6. 144KW / 600A GRID PASS THROUGH
7. CHARGE RATE: 6.5KW / INVERTER
8. DISCHARGE RATE: 12.5KW / INVERTER

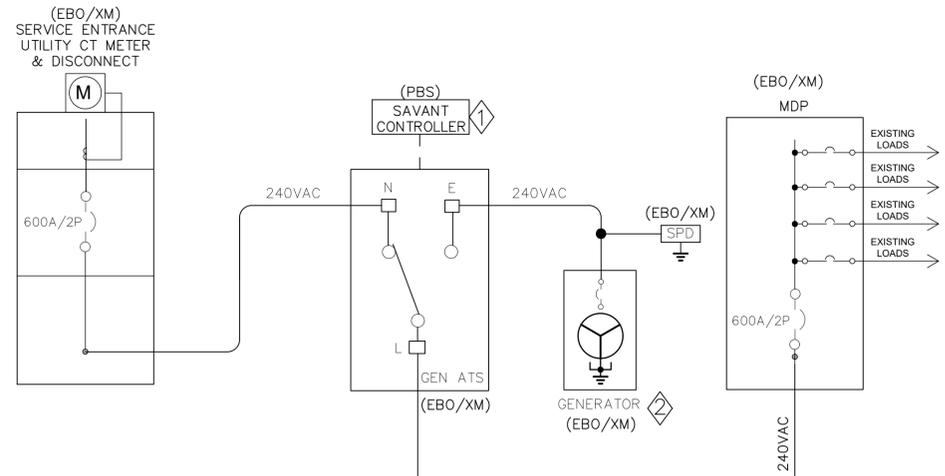
LEGEND & ABBREVIATIONS		KEYNOTE DRAWING NOTES	
(PBS)	PROVIDED BY SAVANT POWER, INSTALLED BY OTHERS	◊	OCPD SIZING ON THIS CONCEPT DRAWING SHOWS THE MAXIMUM ALLOWABLE SIZE FOR THIS PS50 CONFIGURATION. ENGINEER OF RECORD TO SIZE OCPD AND CABLE SIZES ACCORDING TO SITE CONDITIONS AND LATEST NEC CODE. SEE GENERAL NOTES SHEET FOR ADDITIONAL DESIGN GUIDANCE.
(EBO)	EQUIPMENT FURNISHED AND INSTALLED BY OTHERS		
(XM)	EQUIPMENT EXISTING TO REMAIN	◊	QTY (1) PS50 GEN TERMINAL INPUT IS RATED UP TO 12.5KW AC SOLAR PER BATTERY STACK. OFF GRID FREQUENCY SHIFTING IS AN INCLUDED FUNCTION ON THE GEN TERMINAL TO TURN AC SOLAR FEEDS ON OR OFF.
SPD	SURGE PROTECTION DEVICE		
TYP	TYPICAL THROUGHOUT DRAWING		
AF	SWITCH DISCONNECT FUSE RATING		



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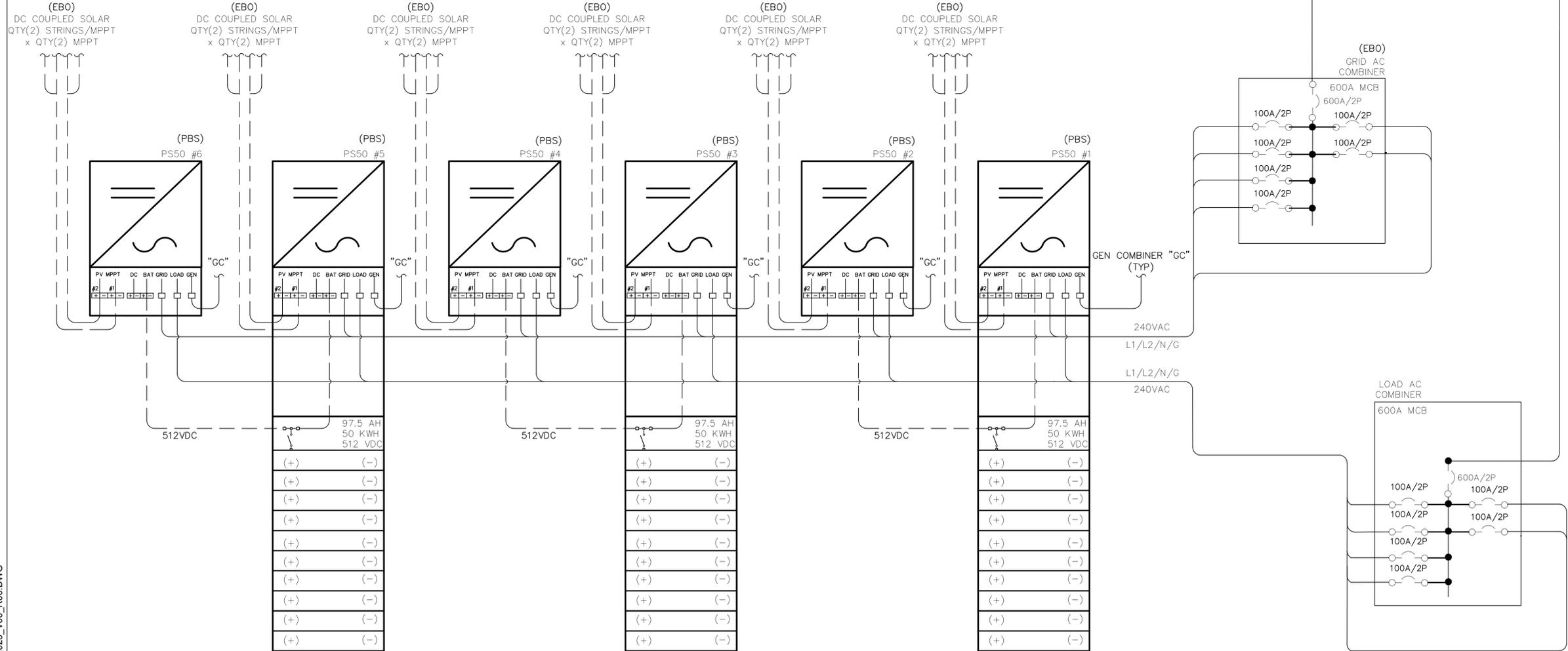
INTER-DISCIPLINE REVIEW														DSGN			SAVANT POWER		JOB NUMBER	REV	
DISC	ARCH	CIVIL	ELECT	I&C	MECH	STRUCT									DRN	MAW	12-10-2025	RESIDENTIAL MICROGRID		-	△
DATE	*	*	*	*	*	*									CKD	JP		DRAWING NUMBER			
INIT	*	*	*	*	*	*	00	VERSION 00	12-10-2025	MAW					SCALE: AS NOTED		600A: 75KW - 300KWH ESS PS50 ONELINE DIAGRAM (120/240V)		009-2663-00		
REV	REVISIONS						DATE	DRN	DSGN	CKD	APPD	CERTIFICATE OF REGISTRATION NO. X-0000									

LEGEND & ABBREVIATIONS		KEYNOTE DRAWING NOTES	
(PBS)	PROVIDED BY SAVANT POWER, INSTALLED BY OTHERS	①	"GENERATOR TO GRID" SYSTEMS REQUIRE A SAVANT CONTROLLER (DIRECTOR OR PRO HOST). THE GPIO PORT ON THE CONTROLLER SHALL BE CONNECTED TO THE AUXILIARY POSITIONAL CONTACTS ON THE GENERATOR ATS. THIS TELLS THE SAVANT SYSTEM THE POSITIONAL STATUS OF THE GEN ATS (NORMAL VS EMERGENCY).
(EBO)	EQUIPMENT FURNISHED AND INSTALLED BY OTHERS		QTY (1) PS50 GRID TERMINAL INPUT IS RATED UP TO 24KW PER INVERTER FOR UTILITY OR 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.
(XM)	EQUIPMENT EXISTING TO REMAIN	②	
SPD	SURGE PROTECTION DEVICE		
TYP	TYPICAL THROUGHOUT DRAWING		
AF	SWITCH DISCONNECT FUSE RATING		



600A POWER STORAGE 50 SYSTEM NOTES

- 150KWH RATED ENERGY STORAGE
- OFFGRID CONTINUOUS: 75KW / 312.5A
- QTY (12) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
- QTY (6) 12.5KW AC COUPLED PV INPUT AT GEN TERMINAL MAXIMUM AC+DC COUPLED SOLAR COMBINATION: 12.5KW / INVERTER
- 144KW / 600A GRID PASS THROUGH
- CHARGE RATE: 6.5KW / INVERTER
13KW / BATTERY STACK
- DISCHARGE RATE: 12.5KW / INVERTER
25KW / BATTERY STACK



PS50_GEN TO GRID_12_10_2025_V00_R00.DWG

INTER-DISCIPLINE REVIEW							REVISIONS							SAVANT POWER			JOB NUMBER		REV		
DISC	ARCH	CIVIL	ELECT	I&C	MECH	STRUCT	00	VERSION 00	12-10-2025	MAW	DRN	DSGN	CKD	APPD	RESIDENTIAL MICROGRID			DRAWING NUMBER		009-2666-00	
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INIT	*	*	*	*	*	*	REV								PS50 ONLINE DIAGRAM (120/240V)						

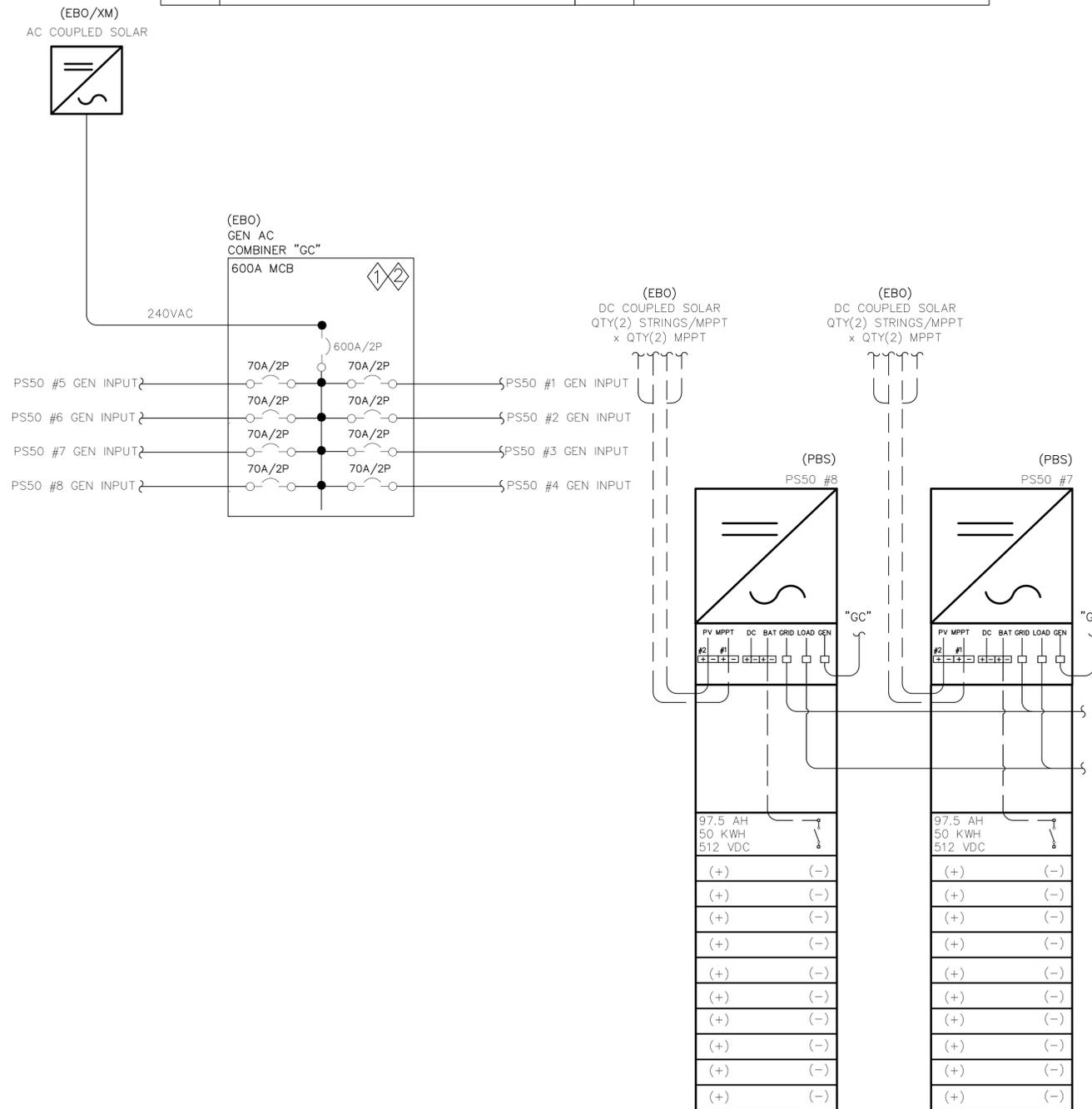
CERTIFICATE OF REGISTRATION NO. X-0000

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

800A POWER STORAGE 50 SYSTEM NOTES

- 400KWH RATED ENERGY STORAGE
- OFFGRID CONTINUOUS: 100KW / 416.67A
- QTY (16) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
- QTY (8) 12.5KW AC COUPLED PV INPUT AT GEN TERMINAL
- MAXIMUM AC+DC COUPLED SOLAR COMBINATION: 12.5KW / BATTERY STACK
- 192KW / 800A GRID PASS THROUGH
- CHARGE RATE: 6.5KW / INVERTER
- DISCHARGE RATE: 12.5KW / INVERTER

LEGEND & ABBREVIATIONS		KEYNOTE DRAWING NOTES	
(PBS)	PROVIDED BY SAVANT POWER, INSTALLED BY OTHERS	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.
(EBO)	EQUIPMENT FURNISHED AND INSTALLED BY OTHERS		
(XM)	EQUIPMENT EXISTING TO REMAIN	②	QTY (1) PS50 GEN TERMINAL INPUT IS RATED UP TO 12.5KW AC SOLAR PER BATTERY STACK. OFF GRID FREQUENCY SHIFTING IS AN INCLUDED FUNCTION ON THE GEN TERMINAL TO TURN AC SOLAR FEEDS ON OR OFF.
SPD	SURGE PROTECTION DEVICE		
TYP	TYPICAL THROUGHOUT DRAWING		
AF	SWITCH DISCONNECT FUSE RATING		



PS50_GEN TO GRID_12_10_2025_V00_R00.DWG

INTER-DISCIPLINE REVIEW						
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DATE	*	*	*	*	*	*
INIT	*	*	*	*	*	*

REV	VERSION	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	
RESIDENTIAL MICROGRID	
800A: 100KW - 400KWH ESS PS50 ONELINE DIAGRAM (120/240V)	

JOB NUMBER	REV
	00
DRAWING NUMBER	
009-2669-00	

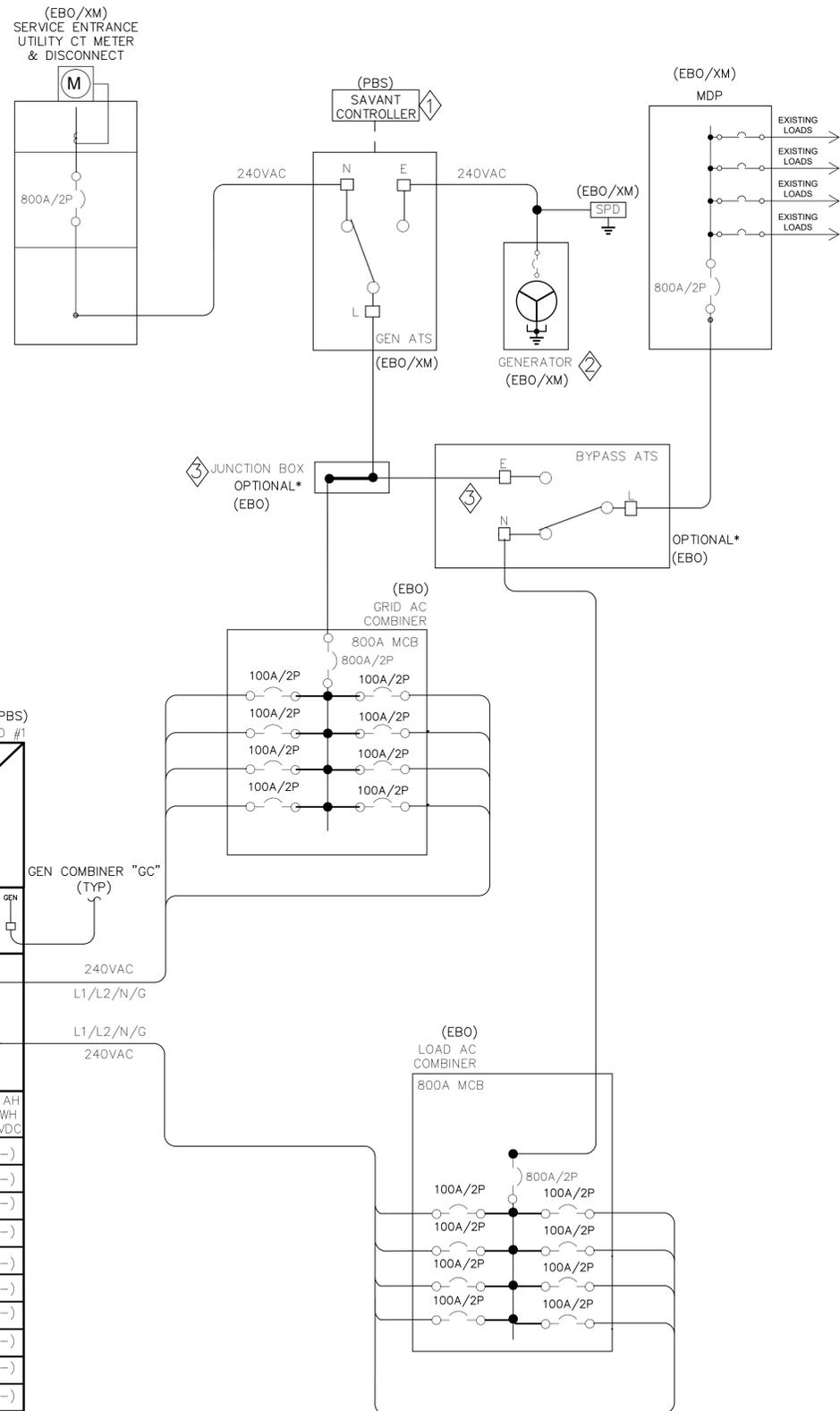
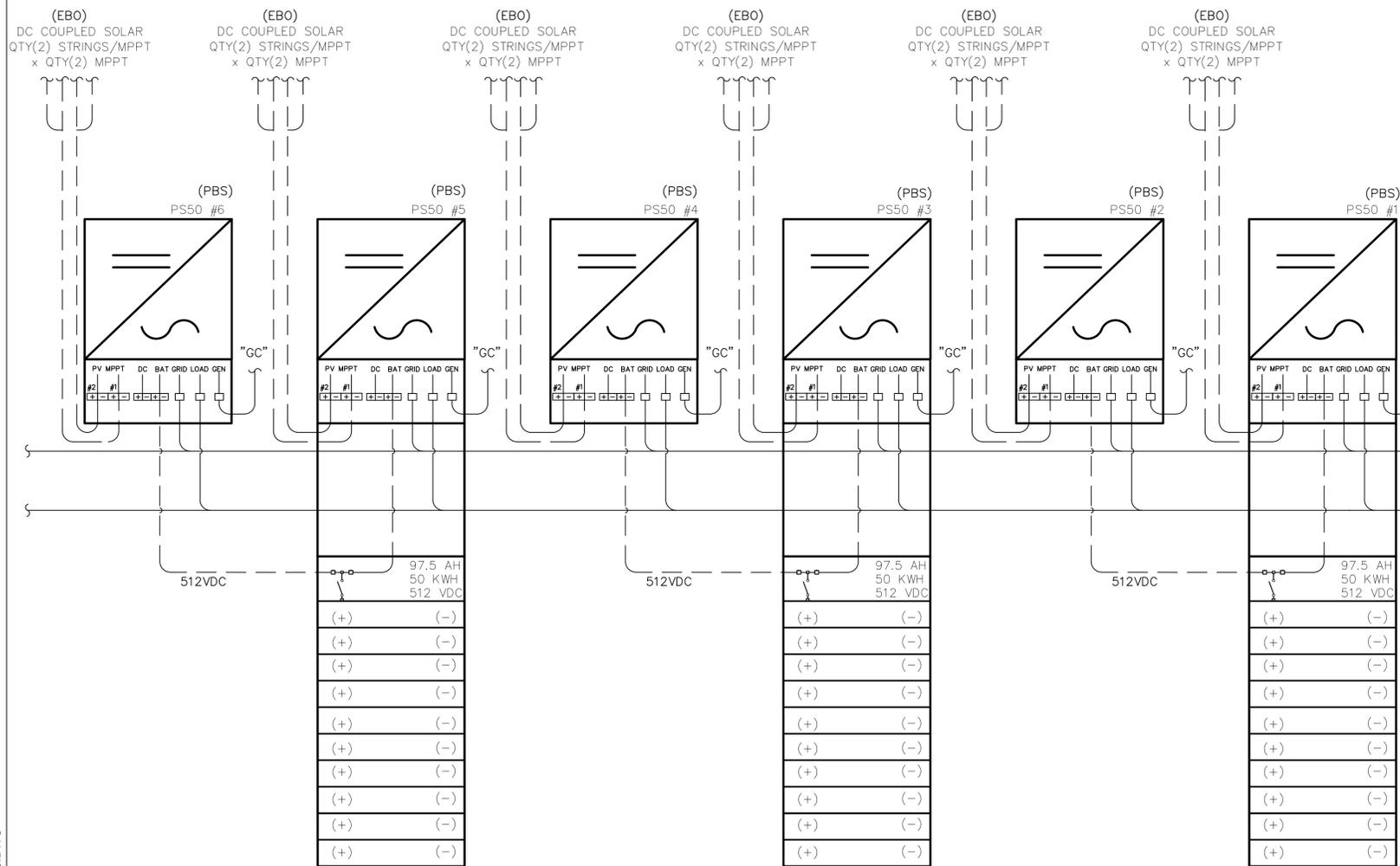
LEGEND & ABBREVIATIONS	
(PBS)	PROVIDED BY SAVANT POWER, INSTALLED BY OTHERS
(EBO)	EQUIPMENT FURNISHED AND INSTALLED BY OTHERS
(XM)	EQUIPMENT EXISTING TO REMAIN
SPD	SURGE PROTECTION DEVICE
TYP	TYPICAL THROUGHOUT DRAWING
AF	SWITCH DISCONNECT FUSE RATING

KEYNOTE DRAWING NOTES

① "GENERATOR TO GRID" SYSTEMS REQUIRE A SAVANT CONTROLLER (DIRECTOR OR PRO HOST). THE GPIO PORT ON THE CONTROLLER SHALL BE CONNECTED TO THE AUXILIARY POSITIONAL CONTACTS ON THE GENERATOR ATS. THIS TELLS THE SAVANT SYSTEM THE POSITIONAL STATUS OF THE GEN ATS (NORMAL VS EMERGENCY).

② QTY (1) PS50 GRID TERMINAL INPUT IS RATED UP TO 24KW PER INVERTER FOR UTILITY OR 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 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.



800A POWER STORAGE 50 SYSTEM NOTES

- 200KWH RATED ENERGY STORAGE
- OFFGRID CONTINUOUS: 100KW / 416.67A
- QTY (16) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
- QTY (8) 12.5KW AC COUPLED PV INPUT AT GEN TERMINAL
- MAXIMUM AC+DC COUPLED SOLAR COMBINATION: 12.5KW / INVERTER
- 192KW / 800A GRID PASS THROUGH
- CHARGE RATE: 6.5KW / INVERTER 13KW / BATTERY STACK
- DISCHARGE RATE: 12.5KW / INVERTER 25KW / BATTERY STACK

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INTER-DISCIPLINE REVIEW							00	VERSION 00	12-10-2025	MAW	DSGN	CKD	APPD	SCALE: AS NOTED	CERTIFICATE OF REGISTRATION NO. X-0000	SAVANT POWER		JOB NUMBER	REV
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DATE	*	*	*	*	*	*										DRAWING NUMBER	009-2672-00		
INIT	*	*	*	*	*	*										800A: 100KW - 200KWH ESS PS50 ONLINE DIAGRAM (120/240V)			
REVISIONS							DATE	DRN	DSGN	CKD	APPD								

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

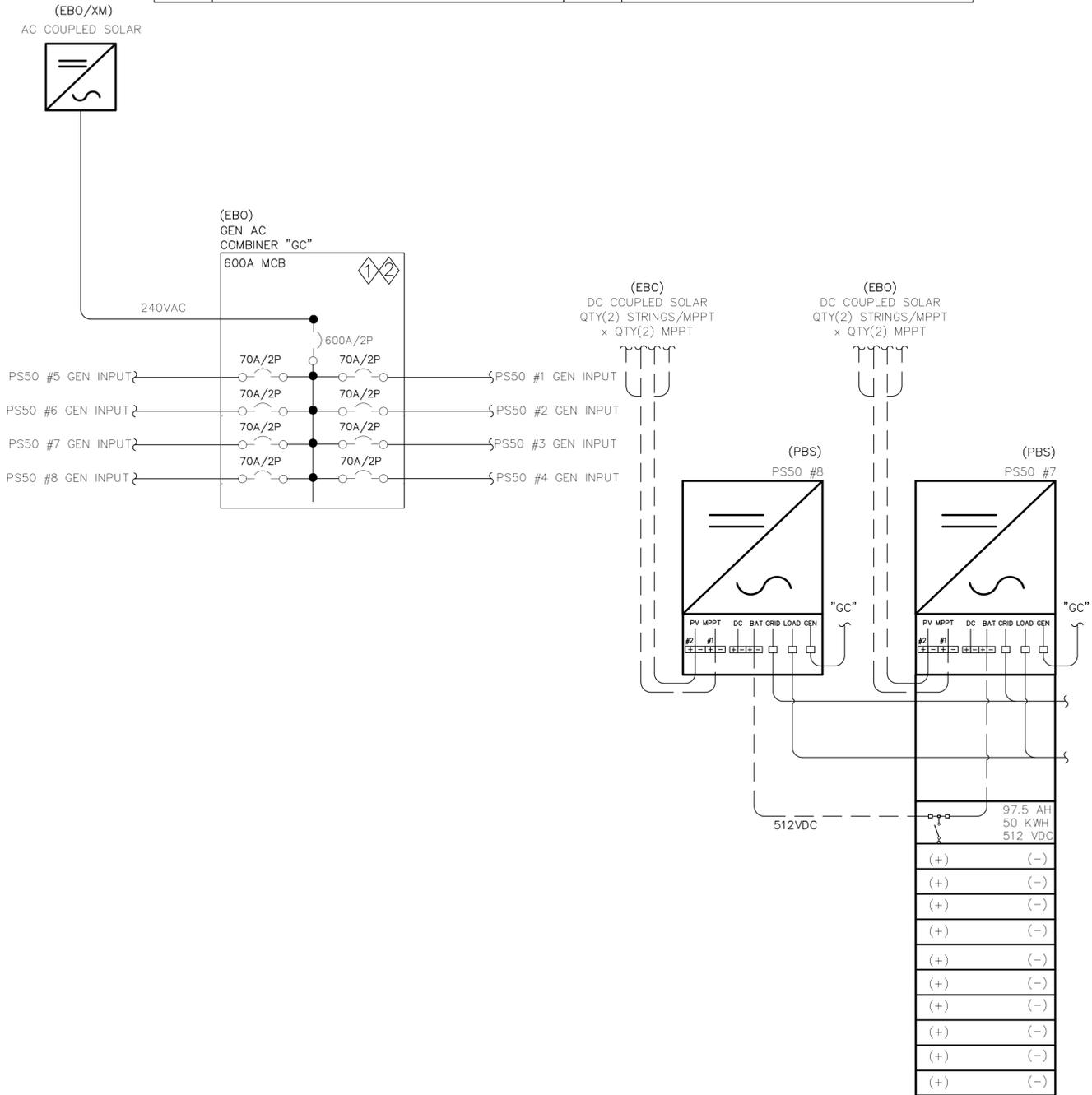
KEYNOTE DRAWING NOTES

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 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.

800A POWER STORAGE 50 SYSTEM NOTES

- 200KWH RATED ENERGY STORAGE
- OFFGRID CONTINUOUS: 100KW / 416.67A
- QTY (16) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
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- MAXIMUM AC+DC COUPLED SOLAR COMBINATION: 12.5KW / INVERTER
- 192KW / 800A GRID PASS THROUGH
- CHARGE RATE: 6.5KW / INVERTER
13KW / BATTERY STACK
- DISCHARGE RATE: 12.5KW / INVERTER
25KW / BATTERY STACK



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INTER-DISCIPLINE REVIEW						
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REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD			

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

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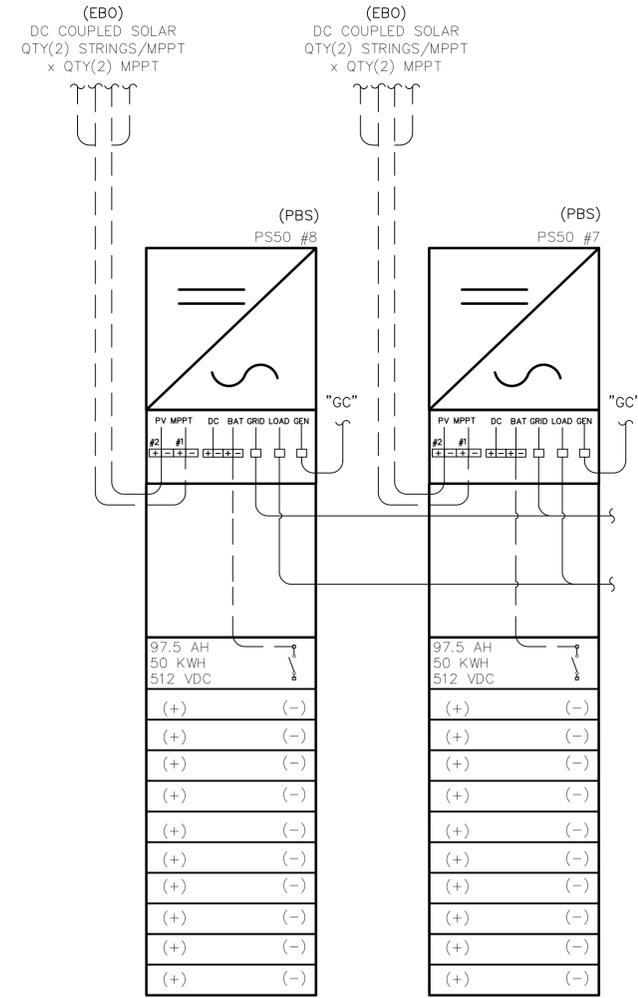
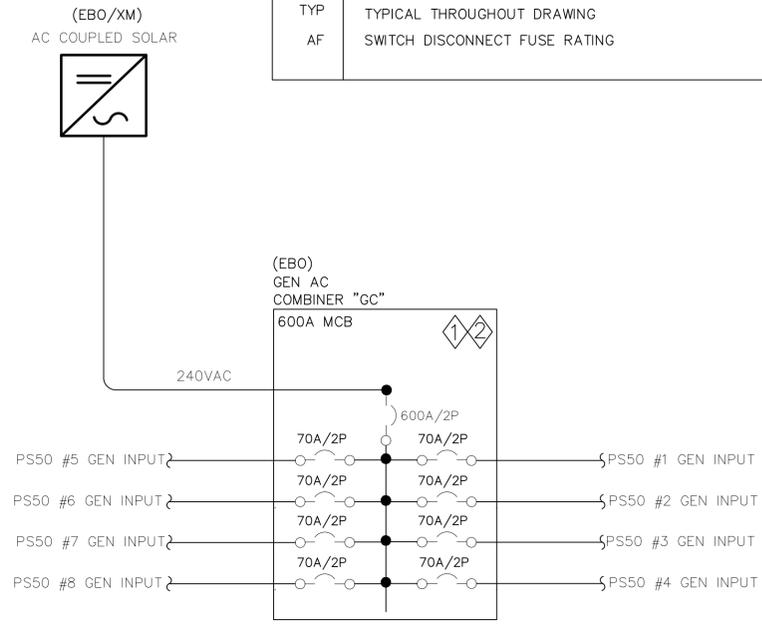
SAVANT POWER	
RESIDENTIAL MICROGRID	
800A: 100KW - 200KWH ESS PS50 ONELINE DIAGRAM (120/240V)	

JOB NUMBER	REV
	00
DRAWING NUMBER	
009-2673-00	

800A POWER STORAGE 50 SYSTEM NOTES

- 400KWH RATED ENERGY STORAGE
- OFFGRID CONTINUOUS: 100KW / 416.67A
- QTY (16) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
- QTY (8) 12.5KW AC COUPLED PV INPUT AT GEN TERMINAL
- MAXIMUM AC+DC COUPLED SOLAR COMBINATION: 12.5KW / BATTERY STACK
- 192KW / 800A GRID PASS THROUGH
- CHARGE RATE: 6.5KW / INVERTER
- DISCHARGE RATE: 12.5KW / INVERTER

LEGEND & ABBREVIATIONS		KEYNOTE DRAWING NOTES	
(PBS)	PROVIDED BY SAVANT POWER, INSTALLED BY OTHERS	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.
(EBO)	EQUIPMENT FURNISHED AND INSTALLED BY OTHERS	②	QTY (1) PS50 GEN TERMINAL INPUT IS RATED UP TO 12.5KW AC SOLAR PER BATTERY STACK. OFF GRID FREQUENCY SHIFTING IS AN INCLUDED FUNCTION ON THE GEN TERMINAL TO TURN AC SOLAR FEEDS ON OR OFF.
(XM)	EQUIPMENT EXISTING TO REMAIN		
SPD	SURGE PROTECTION DEVICE		
TYP	TYPICAL THROUGHOUT DRAWING		
AF	SWITCH DISCONNECT FUSE RATING		



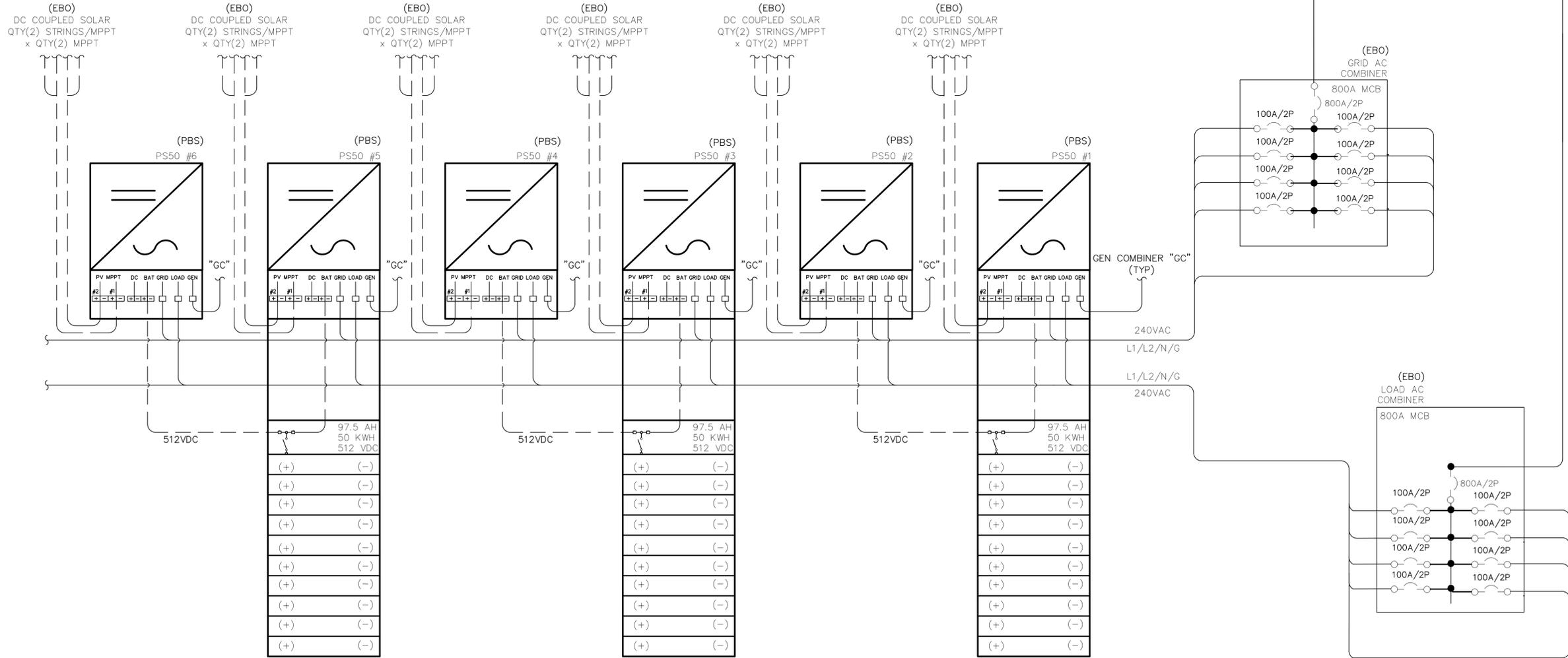
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INTER-DISCIPLINE REVIEW							REV	DATE	DRN	DSGN	CKD	APPD	SCALE: AS NOTED	CERTIFICATE OF REGISTRATION NO. X-0000	SAVANT POWER		JOB NUMBER	REV
DISC	ARCH	CIVIL	ELECT	I&C	MECH	STRUCT									00	VERSION 00	12-10-2025	MAW
DATE	*	*	*	*	*	*	00	VERSION 00	12-10-2025	MAW	JP	AS NOTED			800A: 100KW - 400KWH ESS PS50 ONELINE DIAGRAM (120/240V)	DRAWING NUMBER	009-2671-00	
INIT	*	*	*	*	*	*	REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD					

LEGEND & ABBREVIATIONS		KEYNOTE DRAWING NOTES	
(PBS)	PROVIDED BY SAVANT POWER, INSTALLED BY OTHERS	①	"GENERATOR TO GRID" SYSTEMS REQUIRE A SAVANT CONTROLLER (DIRECTOR OR PRO HOST). THE GPIO PORT ON THE CONTROLLER SHALL BE CONNECTED TO THE AUXILIARY POSITIONAL CONTACTS ON THE GENERATOR ATS. THIS TELLS THE SAVANT SYSTEM THE POSITIONAL STATUS OF THE GEN ATS (NORMAL VS EMERGENCY).
(EBO)	EQUIPMENT FURNISHED AND INSTALLED BY OTHERS		②
(XM)	EQUIPMENT EXISTING TO REMAIN		
SPD	SURGE PROTECTION DEVICE		
TYP	TYPICAL THROUGHOUT DRAWING		
AF	SWITCH DISCONNECT FUSE RATING		

800A POWER STORAGE 50 SYSTEM NOTES

- 200KWH RATED ENERGY STORAGE
- OFFGRID CONTINUOUS: 100KW / 416.67A
- QTY (16) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
- QTY (8) 12.5KW AC COUPLED PV INPUT AT GEN TERMINAL MAXIMUM AC+DC COUPLED SOLAR COMBINATION: 12.5KW / INVERTER
- 192KW / 800A GRID PASS THROUGH
- CHARGE RATE: 6.5KW / INVERTER
13KW / BATTERY STACK
- DISCHARGE RATE: 12.5KW / INVERTER
25KW / BATTERY STACK



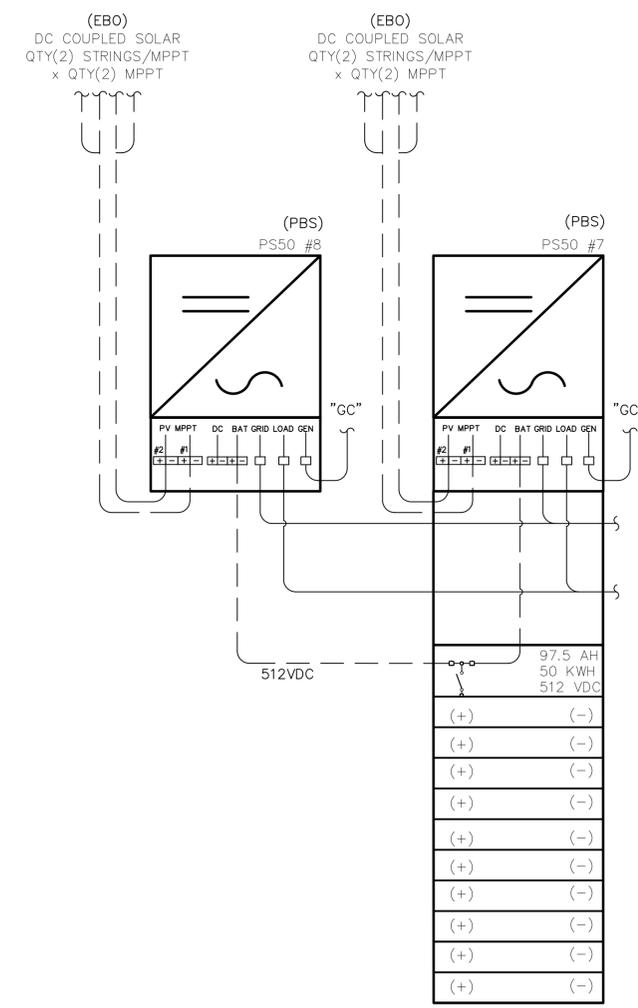
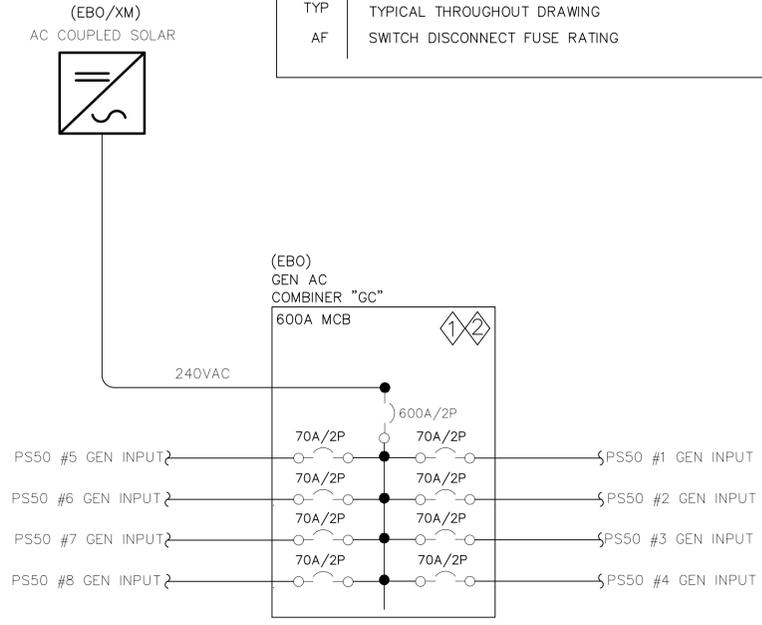
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INTER-DISCIPLINE REVIEW							00	VERSION 00	12-10-2025	MAW	DSGN	CKD	APPD	SCALE: AS NOTED	CERTIFICATE OF REGISTRATION NO. X-0000	SAVANT POWER		JOB NUMBER	REV								
DISC	ARCH	CIVIL	ELECT	I&C	MECH	STRUCT																			RESIDENTIAL MICROGRID		00
DATE	*	*	*	*	*	*																				DRAWING NUMBER	
INIT	*	*	*	*	*	*										REVISIONS	DATE	DRN	DSGN	CKD	APPD					009-2674-00	
															800A: 100KW - 200KWH ESS PS50 ONLINE DIAGRAM (120/240V)												

800A POWER STORAGE 50 SYSTEM NOTES

- 200KWH RATED ENERGY STORAGE
- OFFGRID CONTINUOUS: 100KW / 416.67A
- QTY (16) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
- QTY (8) 12.5KW AC COUPLED PV INPUT AT GEN TERMINAL
- MAXIMUM AC+DC COUPLED SOLAR COMBINATION: 12.5KW / INVERTER
- 192KW / 800A GRID PASS THROUGH
- CHARGE RATE: 6.5KW / INVERTER
13KW / BATTERY STACK
- DISCHARGE RATE: 12.5KW / INVERTER
25KW / BATTERY STACK

LEGEND & ABBREVIATIONS		KEYNOTE DRAWING NOTES	
(PBS)	PROVIDED BY SAVANT POWER, INSTALLED BY OTHERS	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.
(EBO)	EQUIPMENT FURNISHED AND INSTALLED BY OTHERS	②	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.
(XM)	EQUIPMENT EXISTING TO REMAIN		
SPD	SURGE PROTECTION DEVICE		
TYP	TYPICAL THROUGHOUT DRAWING		
AF	SWITCH DISCONNECT FUSE RATING		



PS50_GEN TO GRID_12_10_2025_V00_R00.DWG

INTER-DISCIPLINE REVIEW														DSGN			SAVANT POWER			JOB NUMBER		REV					
DISC	ARCH	CIVIL	ELECT	I&C	MECH	STRUCT																					
DATE	*	*	*	*	*	*																					
INIT	*	*	*	*	*	*																					
REV	00	VERSION 00						12-10-2025	MAW																		
		REVISIONS						DATE	DRN	DSGN	CKD	APPD	SCALE: AS NOTED			CERTIFICATE OF REGISTRATION NO. X-0000			DRAWING NUMBER			REV					
																800A: 100KW - 200KWH ESS PS50 ONELINE DIAGRAM (120/240V)			009-2675-00		①						

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

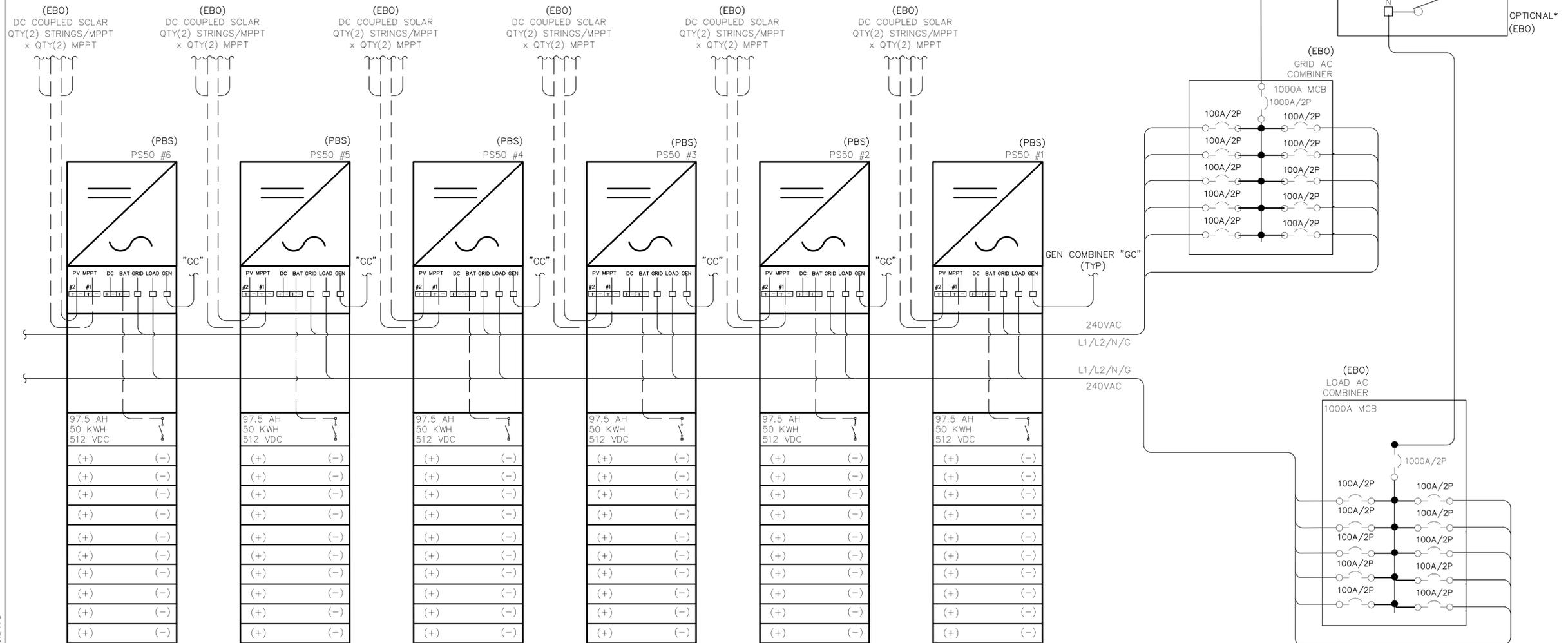
1 "GENERATOR TO GRID" SYSTEMS REQUIRE A SAVANT CONTROLLER (DIRECTOR OR PRO HOST). THE GPIO PORT ON THE CONTROLLER SHALL BE CONNECTED TO THE AUXILIARY POSITIONAL CONTACTS ON THE GENERATOR ATS. THIS TELLS THE SAVANT SYSTEM THE POSITIONAL STATUS OF THE GEN ATS (NORMAL VS EMERGENCY).

2 QTY (1) PS50 GRID TERMINAL INPUT IS RATED UP TO 24KW PER INVERTER FOR UTILITY OR 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 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.

1000A POWER STORAGE 50 SYSTEM NOTES

- 500KWH RATED ENERGY STORAGE
- OFFGRID CONTINUOUS: 125KW / 520.83A
- QTY (20) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
- QTY (10) 12.5KW AC COUPLED PV INPUTS AT GEN TERMINAL
- MAXIMUM AC+DC COUPLED SOLAR COMBINATION: 12.5KW / BATTERY STACK
- 240KW / 1000A GRID PASS THROUGH
- CHARGE RATE: 6.5KW / INVERTER
- DISCHARGE RATE: 12.5KW / INVERTER



PS50_GEN TO GRID_12_10_2025_V00_R00.DWG

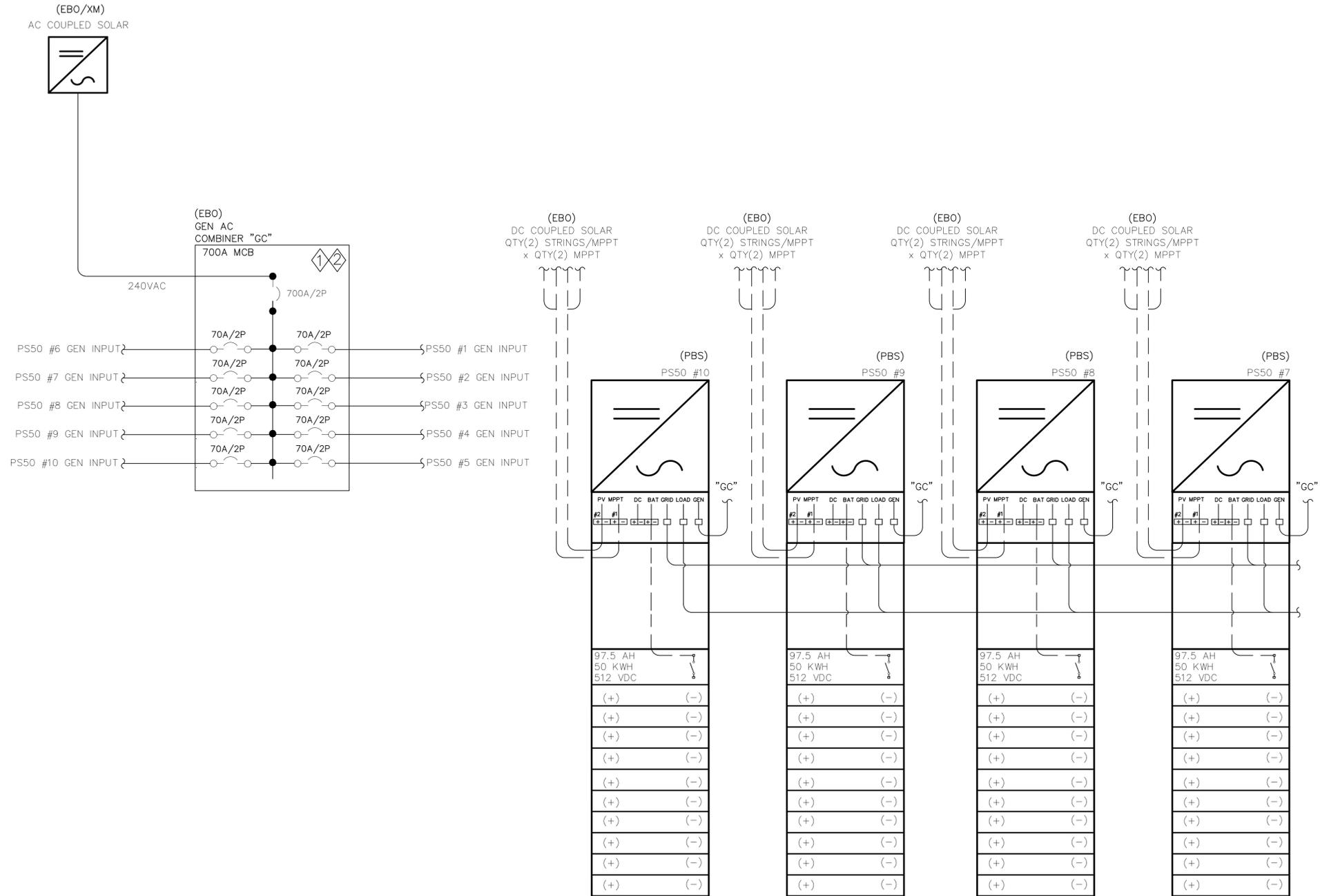
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DISC	ARCH	CIVIL	ELECT	I&C	MECH	STRUCT	DRN	JP		RESIDENTIAL MICROGRID		00
DATE	*	*	*	*	*	*	SCALE:	AS NOTED			DRAWING NUMBER	
INIT	*	*	*	*	*	*				1000A: 125KW - 500KWH ESS PS50 ONLINE DIAGRAM (120/240V)	009-2640-00	
REV	00	VERSION 00					DATE	12-10-2025	MAW			
		REVISIONS					DRN		DSGN	CKD	APPD	

CERTIFICATE OF REGISTRATION NO. X-0000

1000A POWER STORAGE 50 SYSTEM NOTES

- 500KWH RATED ENERGY STORAGE
- OFFGRID CONTINUOUS: 125KW / 520.83A
- QTY (20) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
- QTY (10) 12.5KW AC COUPLED PV INPUTS AT GEN TERMINAL
- MAXIMUM AC+DC COUPLED SOLAR COMBINATION: 12.5KW / BATTERY STACK
- 240KW / 1000A GRID PASS THROUGH
- CHARGE RATE: 6.5KW / INVERTER
- DISCHARGE RATE: 12.5KW / INVERTER

LEGEND & ABBREVIATIONS		KEYNOTE DRAWING NOTES	
(PBS)	PROVIDED BY SAVANT POWER, INSTALLED BY OTHERS	◊	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.
(EBO)	EQUIPMENT FURNISHED AND INSTALLED BY OTHERS		
(XM)	EQUIPMENT EXISTING TO REMAIN	◊	QTY (1) PS50 GEN TERMINAL INPUT IS RATED UP TO 12.5KW AC SOLAR PER BATTERY STACK. OFF GRID FREQUENCY SHIFTING IS AN INCLUDED FUNCTION ON THE GEN TERMINAL TO TURN AC SOLAR FEEDS ON OR OFF.
SPD	SURGE PROTECTION DEVICE		
TYP	TYPICAL THROUGHOUT DRAWING		
AF	SWITCH DISCONNECT FUSE RATING		

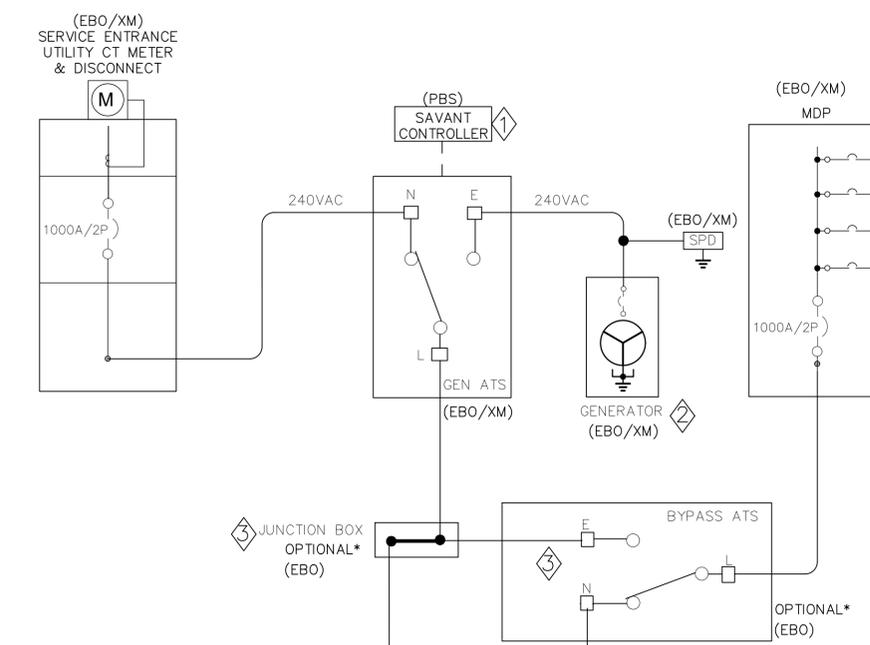
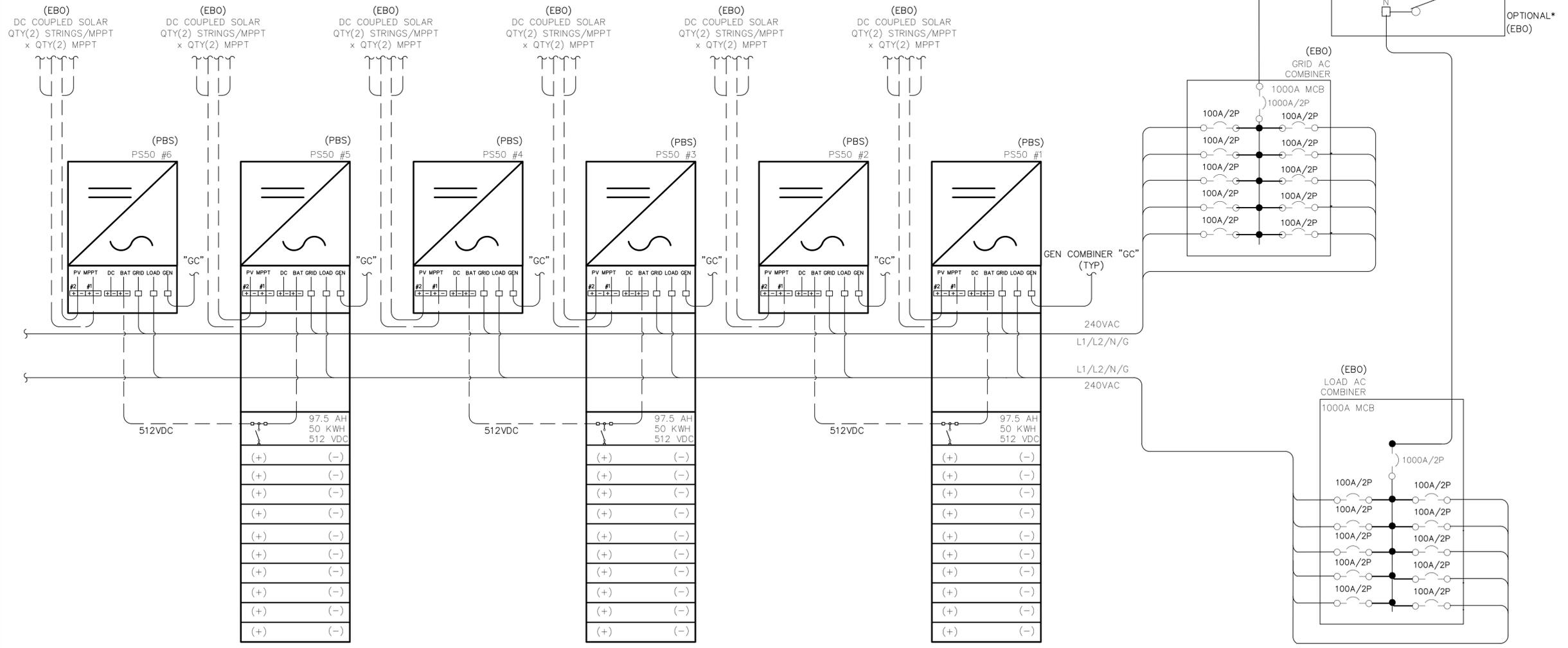


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INTER-DISCIPLINE REVIEW											DSGN			SAVANT POWER		JOB NUMBER	REV	
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DATE	*	*	*	*	*	*						CKD	JP		DRAWING NUMBER			
INIT	*	*	*	*	*	*	00	VERSION 00	12-10-2025	MAW		SCALE: AS NOTED			1000A: 125KW - 500KWH ESS PS50 ONLINE DIAGRAM (120/240V)		009-2641-00	
REV	REVISIONS						DATE	DRN	DSGN	CKD	APPD	CERTIFICATE OF REGISTRATION NO. X-0000						

- 250KWH RATED ENERGY STORAGE
- OFFGRID CONTINUOUS: 125KW / 520.83A
- QTY (20) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
- QTY (10) 12.5KW AC COUPLED PV INPUTS AT GEN TERMINAL
- MAXIMUM AC+DC COUPLED SOLAR COMBINATION: 12.5KW / INVERTER
- 240KW / 1000A GRID PASS THROUGH
- CHARGE RATE: 6.5KW / INVERTER
13KW / BATTERY STACK
- DISCHARGE RATE: 12.5KW / INVERTER
25KW / BATTERY STACK

LEGEND & ABBREVIATIONS		KEYNOTE DRAWING NOTES	
(PBS)	PROVIDED BY SAVANT POWER, INSTALLED BY OTHERS	①	"GENERATOR TO GRID" SYSTEMS REQUIRE A SAVANT CONTROLLER (DIRECTOR OR PRO HOST). THE GPIO PORT ON THE CONTROLLER SHALL BE CONNECTED TO THE AUXILIARY POSITIONAL CONTACTS ON THE GENERATOR ATS. THIS TELLS THE SAVANT SYSTEM THE POSITIONAL STATUS OF THE GEN ATS (NORMAL VS EMERGENCY).
(EBO)	EQUIPMENT FURNISHED AND INSTALLED BY OTHERS	②	QTY (1) PS50 GRID TERMINAL INPUT IS RATED UP TO 24KW PER INVERTER FOR UTILITY OR 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.
(XM)	EQUIPMENT EXISTING TO REMAIN	③	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.
SPD	SURGE PROTECTION DEVICE		
TYP	TYPICAL THROUGHOUT DRAWING		
AF	SWITCH DISCONNECT FUSE RATING		



PS50_GEN TO GRID_12_10_2025_V00_R00.DWG

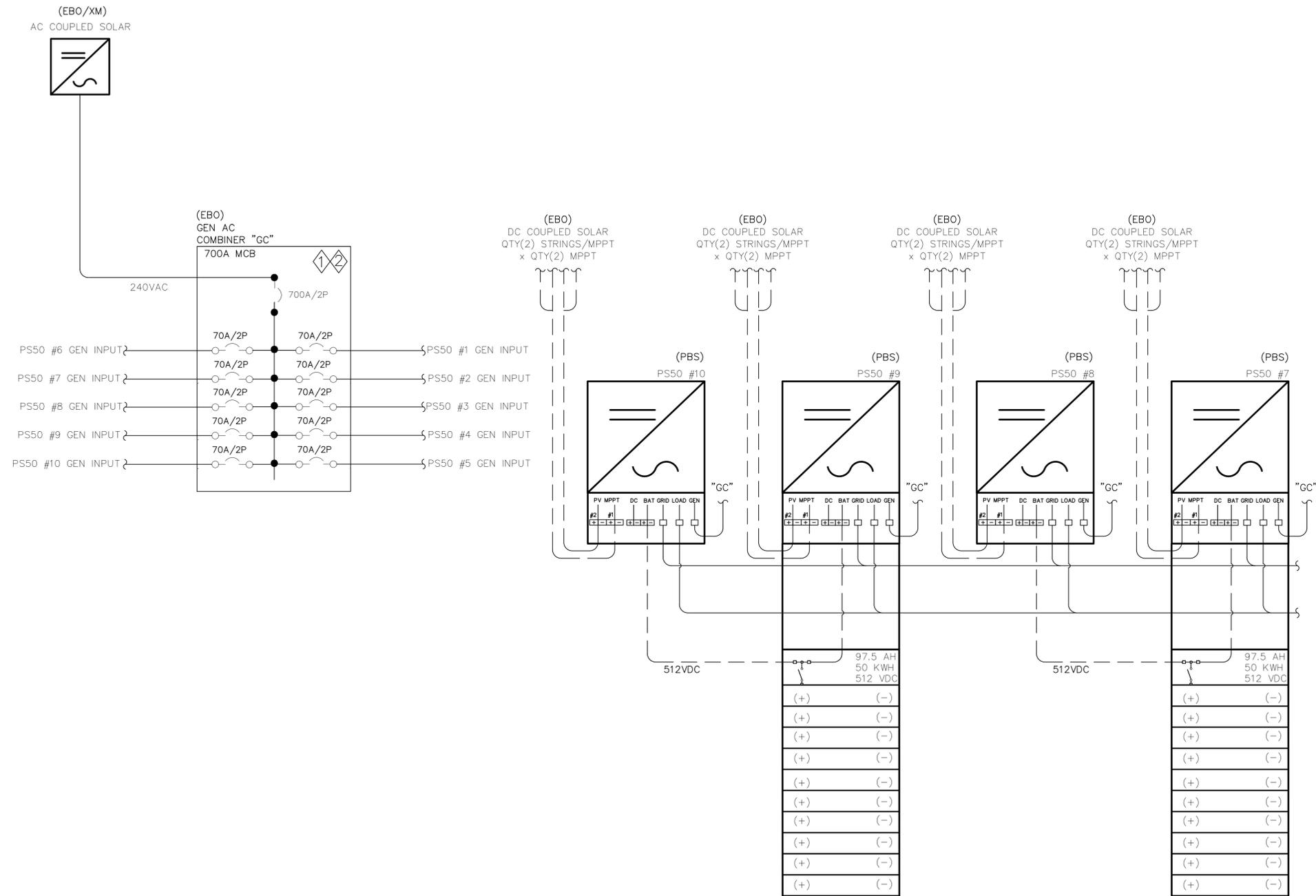
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DATE	*	*	*	*	*	*													
INIT	*	*	*	*	*	*													

CERTIFICATE OF REGISTRATION NO. X-0000

1000A POWER STORAGE 50 SYSTEM NOTES

- 250KWH RATED ENERGY STORAGE
- OFFGRID CONTINUOUS: 125KW / 520.83A
- QTY (20) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
- QTY (10) 12.5KW AC COUPLED PV INPUTS AT GEN TERMINAL
- MAXIMUM AC+DC COUPLED SOLAR COMBINATION: 12.5KW / INVERTER
- 240KW / 1000A GRID PASS THROUGH
- CHARGE RATE: 6.5KW / INVERTER 13KW / BATTERY STACK
- DISCHARGE RATE: 12.5KW / INVERTER 25KW / BATTERY STACK

LEGEND & ABBREVIATIONS		KEYNOTE DRAWING NOTES	
(PBS)	PROVIDED BY SAVANT POWER, INSTALLED BY OTHERS	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.
(EBO)	EQUIPMENT FURNISHED AND INSTALLED BY OTHERS		
(XM)	EQUIPMENT EXISTING TO REMAIN	②	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.
SPD	SURGE PROTECTION DEVICE		
TYP	TYPICAL THROUGHOUT DRAWING		
AF	SWITCH DISCONNECT FUSE RATING		



PS50_GEN TO GRID_12_10_2025_V00_R00.DWG

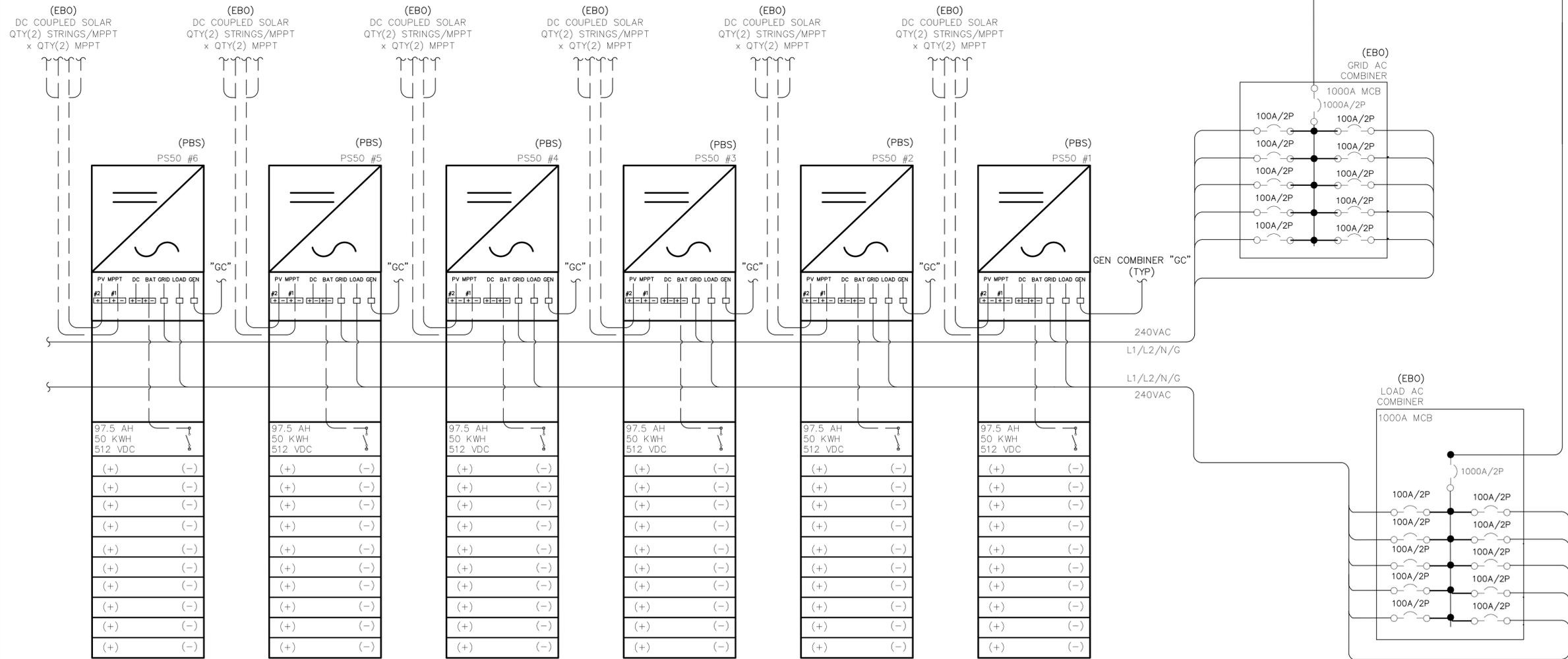
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DATE	*	*	*	*	*	*							1000A: 125KW - 250KWH ESS PS50 ONELINE DIAGRAM (120/240V)				00	
INIT	*	*	*	*	*	*	00	VERSION 00	12-10-2025	MAW							009-2645-00	
							REV	REVISIONS	DATE	DRN	DSGN	CKD	APPD					

CERTIFICATE OF REGISTRATION NO. X-0000

LEGEND & ABBREVIATIONS		KEYNOTE DRAWING NOTES	
(PBS)	PROVIDED BY SAVANT POWER, INSTALLED BY OTHERS	⬆	"GENERATOR TO GRID" SYSTEMS REQUIRE A SAVANT CONTROLLER (DIRECTOR OR PRO HOST). THE GPIO PORT ON THE CONTROLLER SHALL BE CONNECTED TO THE AUXILIARY POSITIONAL CONTACTS ON THE GENERATOR ATS. THIS TELLS THE SAVANT SYSTEM THE POSITIONAL STATUS OF THE GEN ATS (NORMAL VS EMERGENCY).
(EBO)	EQUIPMENT FURNISHED AND INSTALLED BY OTHERS		
(XM)	EQUIPMENT EXISTING TO REMAIN	⬇	QTY (1) PS50 GRID TERMINAL INPUT IS RATED UP TO 24KW PER INVERTER FOR UTILITY OR 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.
SPD	SURGE PROTECTION DEVICE		
TYP	TYPICAL THROUGHOUT DRAWING		
AF	SWITCH DISCONNECT FUSE RATING		

1000A POWER STORAGE 50 SYSTEM NOTES

- 500KWH RATED ENERGY STORAGE
- OFFGRID CONTINUOUS: 125KW / 520.83A
- QTY (20) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
- QTY (10) 12.5KW AC COUPLED PV INPUTS AT GEN TERMINAL
- MAXIMUM AC+DC COUPLED SOLAR COMBINATION: 12.5KW / BATTERY STACK
- 240KW / 1000A GRID PASS THROUGH
- CHARGE RATE: 6.5KW / INVERTER
- DISCHARGE RATE: 12.5KW / INVERTER



PS50_GEN TO GRID_12_10_2025_V00_R00.DWG

INTER-DISCIPLINE REVIEW							REVISIONS				DESIGN			JOB NUMBER		REV		
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DSGN	MAW	12-10-2025
DRN	JP	
CKD		
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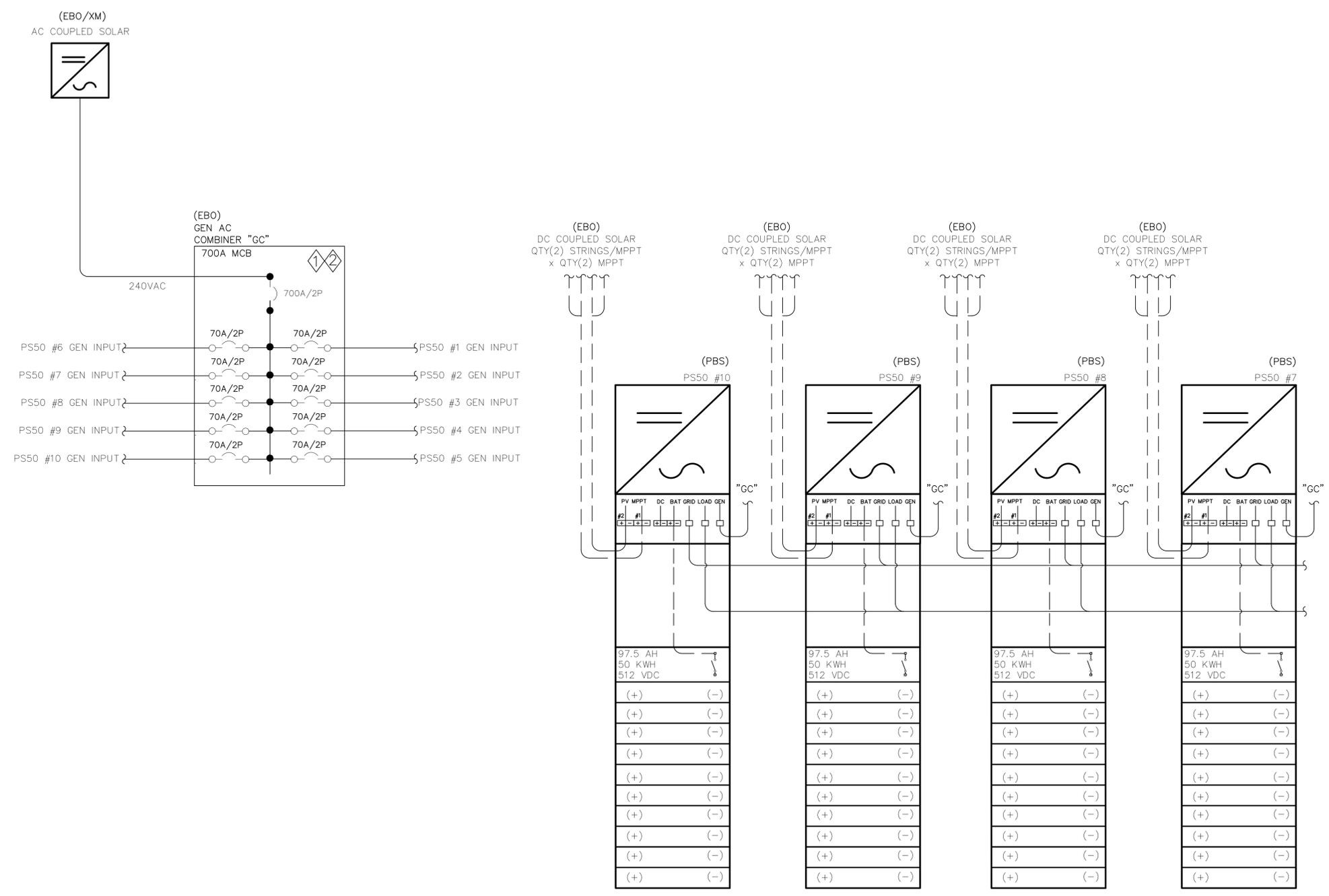
SAVANT POWER		JOB NUMBER	REV
RESIDENTIAL MICROGRID			00
1000A: 125KW - 500KWH ESS PS50 ONLINE DIAGRAM (120/240V)		DRAWING NUMBER	009-2642-00

CERTIFICATE OF REGISTRATION NO. X-0000

1000A POWER STORAGE 50 SYSTEM NOTES

- 500KWH RATED ENERGY STORAGE
- OFFGRID CONTINUOUS: 125KW / 520.83A
- QTY (20) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
- QTY (10) 12.5KW AC COUPLED PV INPUTS AT GEN TERMINAL
- MAXIMUM AC+DC COUPLED SOLAR COMBINATION: 12.5KW / BATTERY STACK
- 240KW / 1000A GRID PASS THROUGH
- CHARGE RATE: 6.5KW / INVERTER
- DISCHARGE RATE: 12.5KW / INVERTER

LEGEND & ABBREVIATIONS		KEYNOTE DRAWING NOTES	
(PBS)	PROVIDED BY SAVANT POWER, INSTALLED BY OTHERS	⬆	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.
(EBO)	EQUIPMENT FURNISHED AND INSTALLED BY OTHERS		
(XM)	EQUIPMENT EXISTING TO REMAIN	⬇	QTY (1) PS50 GEN TERMINAL INPUT IS RATED UP TO 12.5KW AC SOLAR PER BATTERY STACK. OFF GRID FREQUENCY SHIFTING IS AN INCLUDED FUNCTION ON THE GEN TERMINAL TO TURN AC SOLAR FEEDS ON OR OFF.
SPD	SURGE PROTECTION DEVICE		
TYP	TYPICAL THROUGHOUT DRAWING		
AF	SWITCH DISCONNECT FUSE RATING		



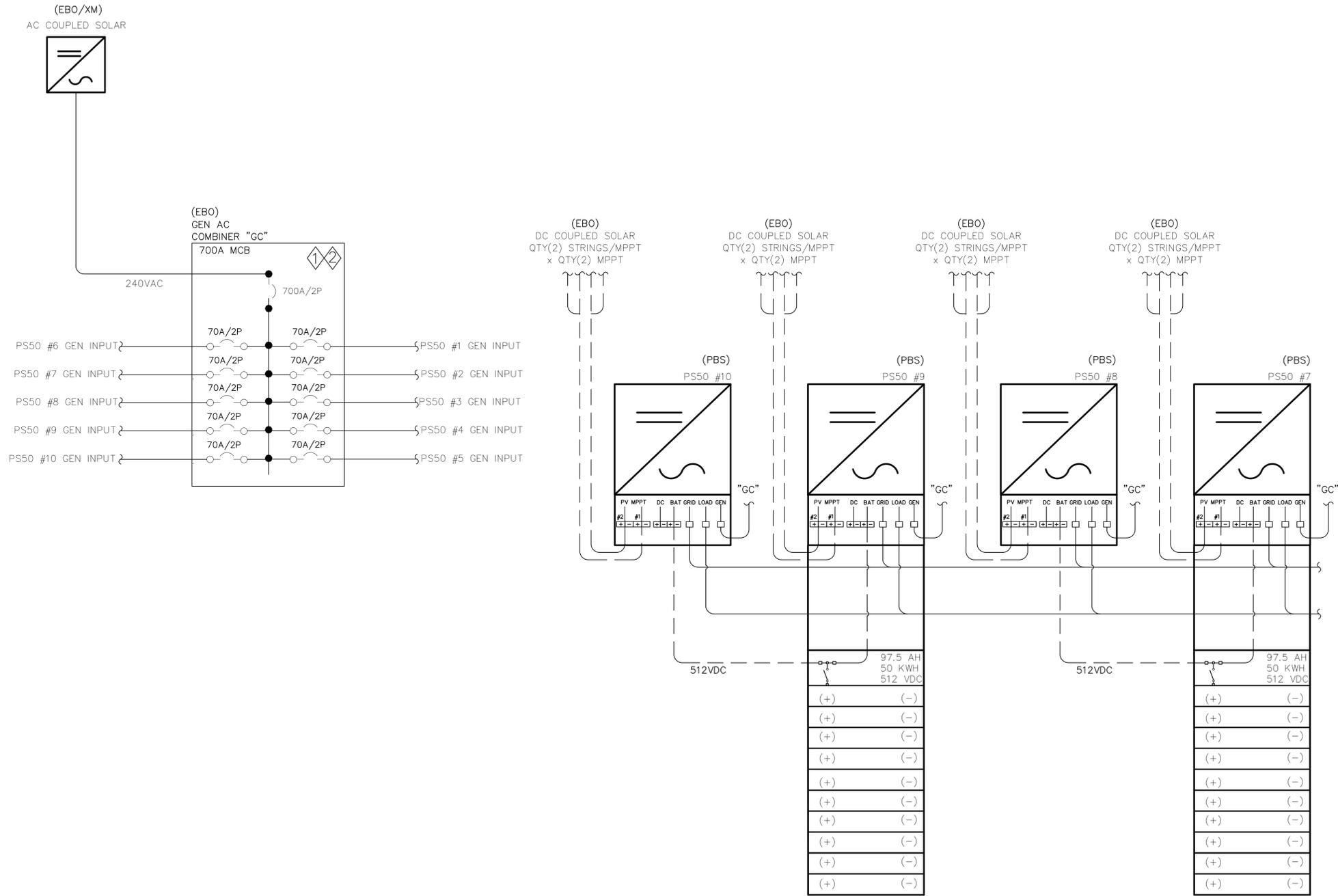
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INTER-DISCIPLINE REVIEW												DSGN			SAVANT POWER		JOB NUMBER	REV	
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DATE	*	*	*	*	*	*							CKD	JP		DRAWING NUMBER			
INIT	*	*	*	*	*	*	00	VERSION 00	12-10-2025	MAW			SCALE: AS NOTED			1000A: 125KW - 500KWH ESS PS50 ONELINE DIAGRAM (120/240V)		009-2643-00	
REV	REVISIONS						DATE	DRN	DSGN	CKD	APPD				CERTIFICATE OF REGISTRATION NO. X-0000				

1000A POWER STORAGE 50 SYSTEM NOTES

- 250KWH RATED ENERGY STORAGE
- OFFGRID CONTINUOUS: 125KW / 520.83A
- QTY (20) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
- QTY (10) 12.5KW AC COUPLED PV INPUTS AT GEN TERMINAL
- MAXIMUM AC+DC COUPLED SOLAR COMBINATION: 12.5KW / INVERTER
- 240KW / 1000A GRID PASS THROUGH
- CHARGE RATE: 6.5KW / INVERTER 13KW / BATTERY STACK
- DISCHARGE RATE: 12.5KW / INVERTER 25KW / BATTERY STACK

LEGEND & ABBREVIATIONS		KEYNOTE DRAWING NOTES	
(PBS)	PROVIDED BY SAVANT POWER, INSTALLED BY OTHERS	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.
(EBO)	EQUIPMENT FURNISHED AND INSTALLED BY OTHERS	②	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.
(XM)	EQUIPMENT EXISTING TO REMAIN		
SPD	SURGE PROTECTION DEVICE		
TYP	TYPICAL THROUGHOUT DRAWING		
AF	SWITCH DISCONNECT FUSE RATING		



PS50_GEN TO GRID_12_10_2025_V00_R00.DWG

INTER-DISCIPLINE REVIEW											DSGN			SAVANT POWER		JOB NUMBER	REV	
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