

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.



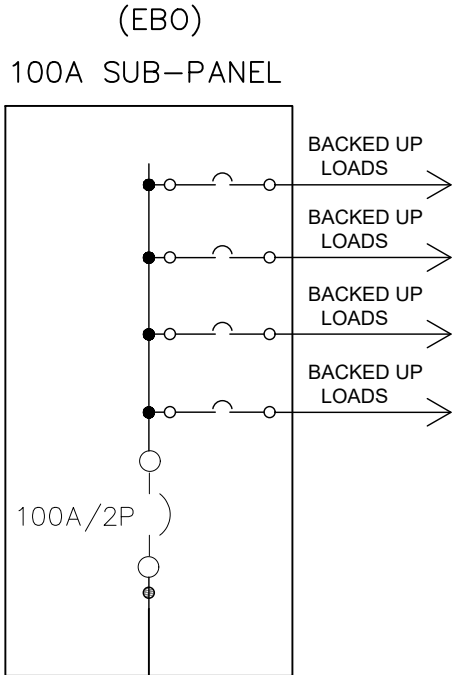
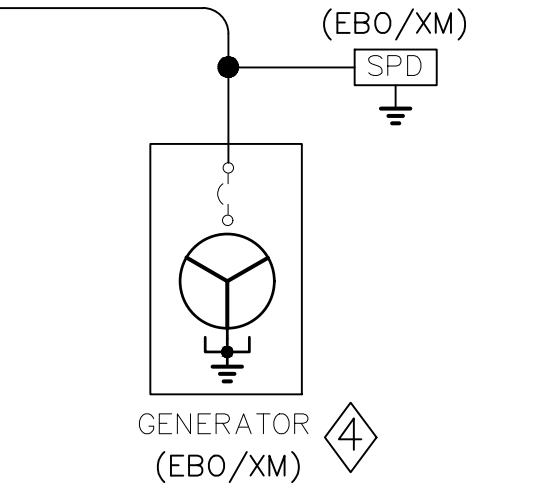
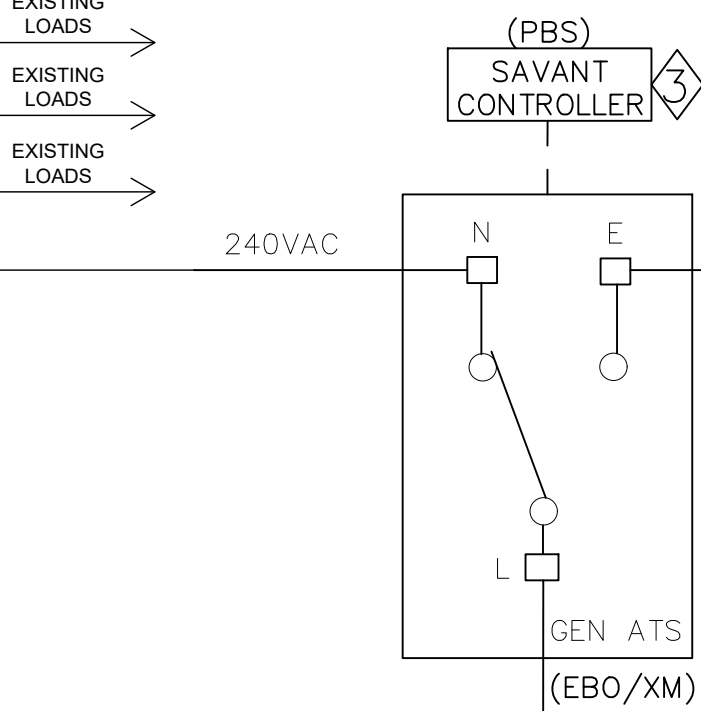
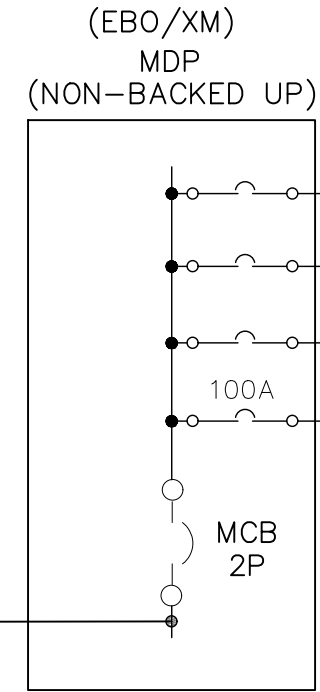
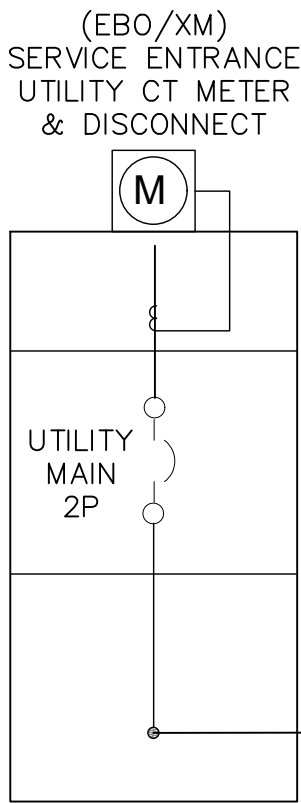
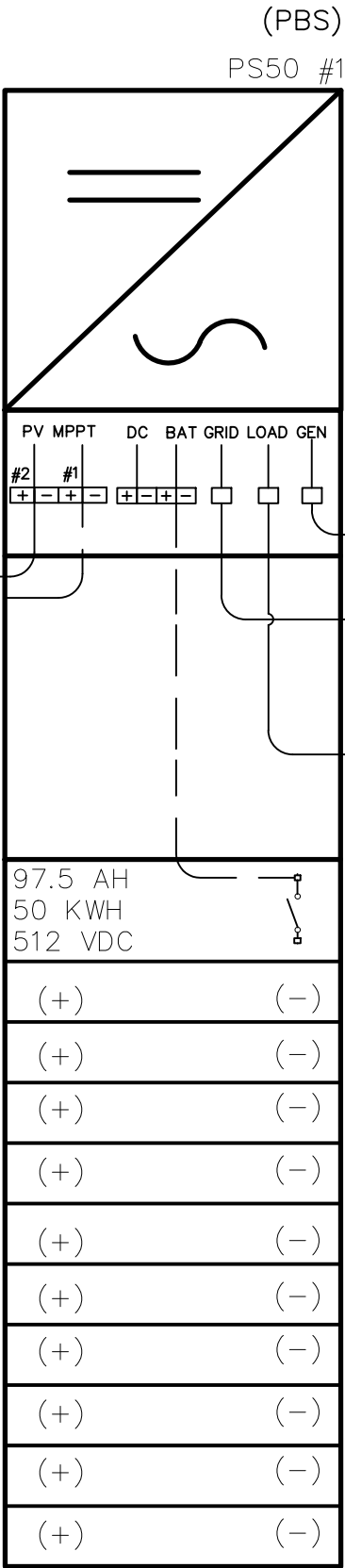
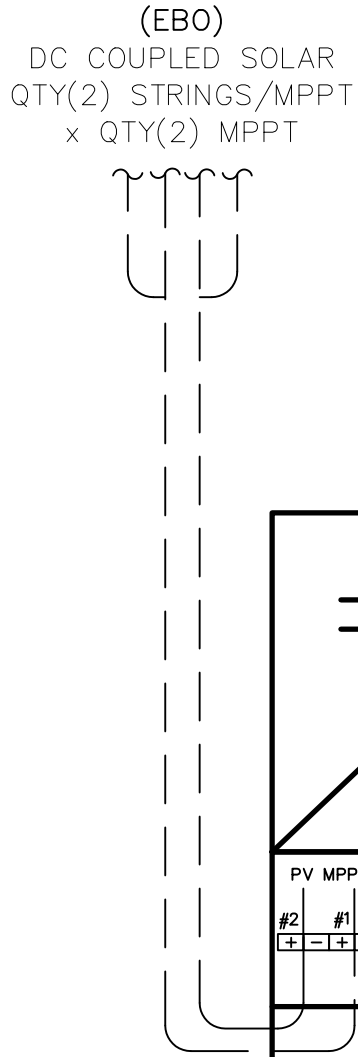
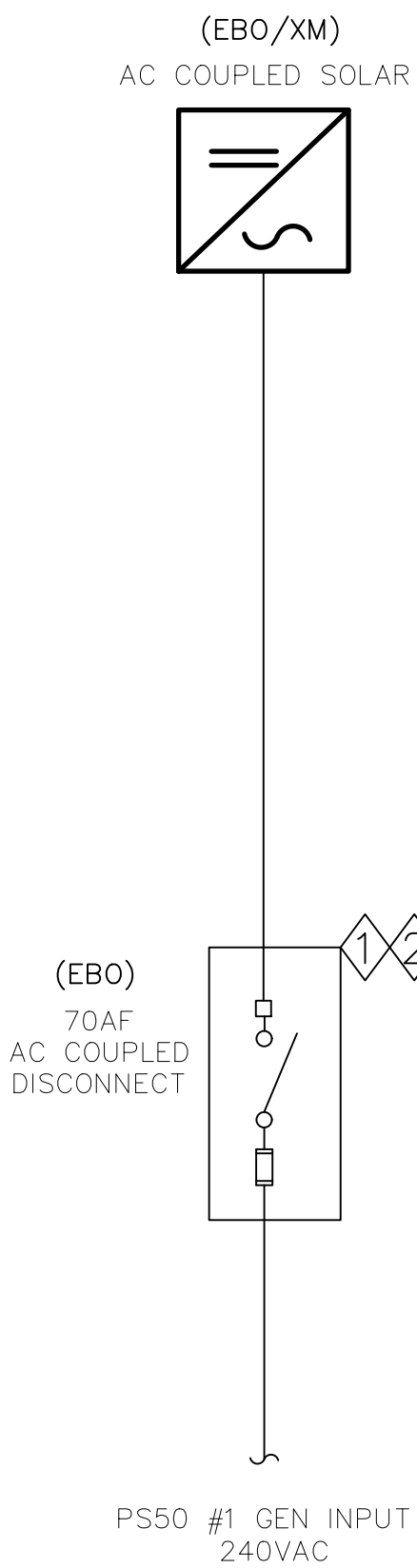
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	INTER-DISCIPLINE REVIEW														DSGN					SAVANT POWER	JOB NUMBER	REV			
	DISC	ARCH	CIVIL	ELECT	I&C	MECH	STRUCT								DRN	MAW	12-10-2025				-	00			
	DATE	*	*	*	*	*	*								CKD	JP					DRAWING NUMBER				
	INIT	*	*	*	*	*	*	00	VERSION 00	12-10-2025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

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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.



- 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

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

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

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

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SAVANT POWER	
RESIDENTIAL MICROGRID	
100A: 12.5KW - 50KWH PARTIAL BACKUP ESS PS50 ONELINE DIAGRAM (120/240V)	

JOB NUMBER	REV
-	00
DRAWING NUMBER	
009-2651-00	