

200A POWER STORAGE 20 SYSTEM NOTES

1. 20KWH RATED ENERGY STORAGE
2. OFF GRID CONTINUOUS: 12.5KW / 52A.
3. QTY (4) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
4. QTY (2) 6.25KW AC COUPLED PV INPUT AT GEN TERMINAL
5. MAXIMUM AC+DC COUPLED SOLAR COMBINATION: 12.5KW / BATTERY STACK
6. 48KW / 200A GRID PASS THROUGH
7. CHARGE RATE: 3.25KW / INVERTER
6.5KW / BATTERY STACK
8. DISCHARGE RATE: 6.25KW / INVERTER
12.5KW / BATTERY STACK

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

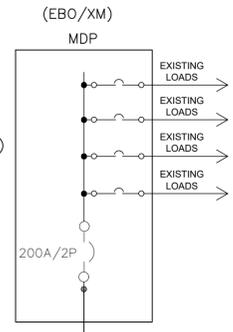
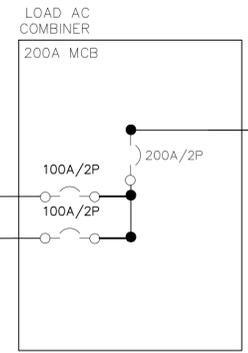
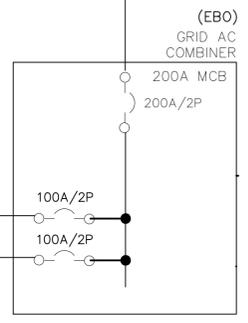
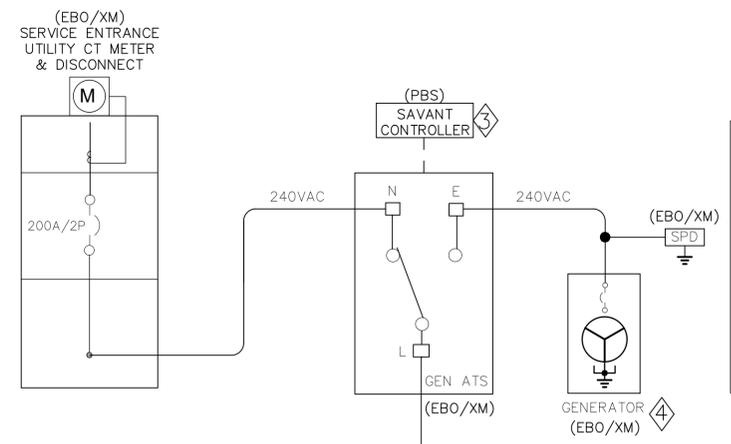
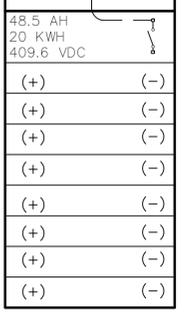
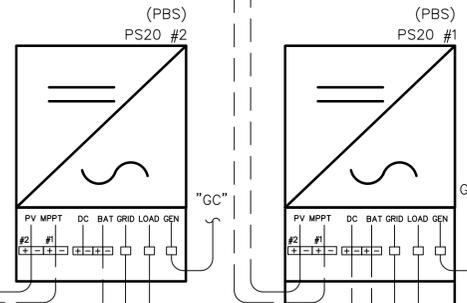
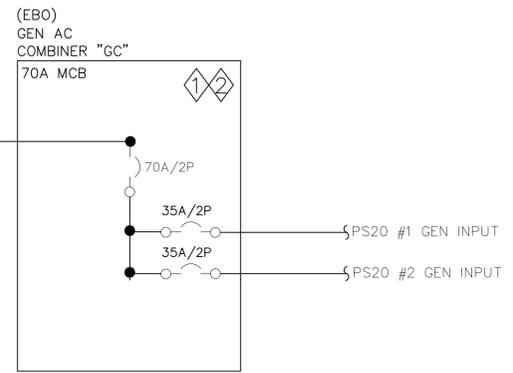
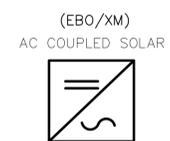
KEYNOTE DRAWING NOTES

1. OCPD SIZING ON THIS CONCEPT DRAWING SHOWS THE MAXIMUM ALLOWABLE SIZE FOR THIS PS20 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) PS20 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) PS20 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.



PS20_GEN TO GRID_12_10_2025_V00_R00.DWG

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	

CERTIFICATE OF REGISTRATION NO. X-0000

SAVANT POWER
RESIDENTIAL MICROGRID
200A: 12.5KW - 20KWH ESS PS20 ONELINE DIAGRAM (120/240V)

JOB NUMBER	REV
-	00
DRAWING NUMBER	
009-2580-00	