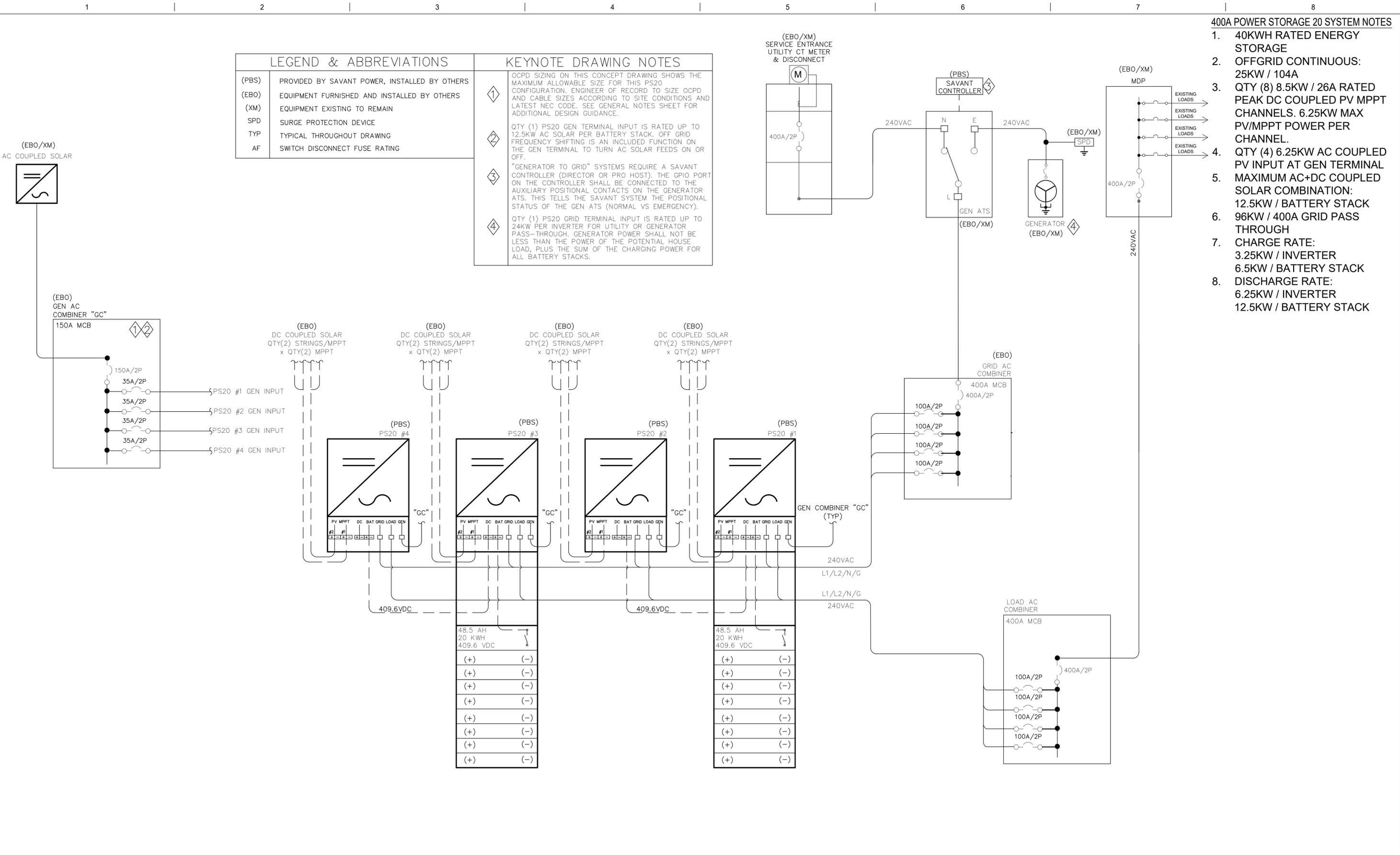


PS20_GEN TO GRID_12_10_2025_V00_R00.DWG



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 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.
(EBO)	EQUIPMENT FURNISHED AND INSTALLED BY OTHERS	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.
(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) 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.
TYP	TYPICAL THROUGHOUT DRAWING		
AF	SWITCH DISCONNECT FUSE RATING		

- 400A POWER STORAGE 20 SYSTEM NOTES**
- 40KWH RATED ENERGY STORAGE
 - OFFGRID CONTINUOUS: 25KW / 104A
 - QTY (8) 8.5KW / 26A RATED PEAK DC COUPLED PV MPPT CHANNELS. 6.25KW MAX PV/MPPT POWER PER CHANNEL.
 - QTY (4) 6.25KW AC COUPLED PV INPUT AT GEN TERMINAL
 - MAXIMUM AC+DC COUPLED SOLAR COMBINATION: 12.5KW / BATTERY STACK
 - 96KW / 400A GRID PASS THROUGH
 - CHARGE RATE: 3.25KW / INVERTER
6.5KW / BATTERY STACK
 - DISCHARGE RATE: 6.25KW / INVERTER
12.5KW / BATTERY STACK

INTER-DISCIPLINE REVIEW							REVISIONS							DESIGN			SAVANT POWER		JOB NUMBER	REV
DISC	ARCH	CIVIL	ELECT	I&C	MECH	STRUCT	REV	DATE	DRN	DSGN	CKD	APPD	DRN	MAW	12-10-2025	RESIDENTIAL MICROGRID		DRAWING NUMBER		
							00	VERSION 00	12-10-2025	MAW						400A: 25KW - 40KWH ESS PS20 ONELINE DIAGRAM (120/240V)		009-2584-00	00	

CERTIFICATE OF REGISTRATION NO. X-0000