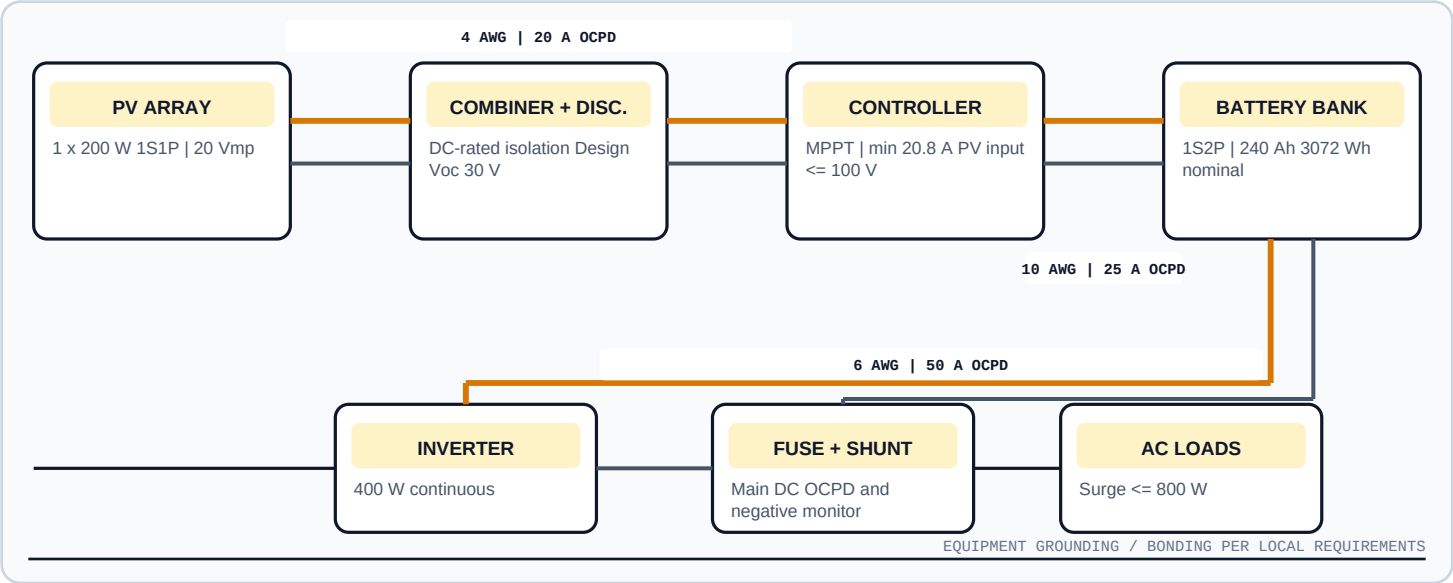
OFF GRID AUTHORITY

ONE-PAGE SOLAR WIRING PLAN

PROJECT FAC15F95D7

FREE DIAGRAM

ARRAY	SYSTEM	BATTERY	INVERTER
200 W | 1S1P	12 V DC	1S2P | 240 Ah	400 W



WIRE AND OCPD SCHEDULE

RUN	ONE-WAY	CONDUCTOR	CURRENT	DROP	OCPD
Array Controller	39 ft	4 AWG CU	16.4 A	1.97%	20 A
Controller Battery	8 ft	10 AWG CU	16.7 A	2.76%	25 A
Battery Inverter	6 ft	6 AWG CU	37 A	1.82%	50 A

PLANNING DOCUMENT - NOT A PERMIT SET

This conceptual plan is generated from the inputs shown. Verify equipment manuals, terminal temperature ratings, conductor insulation, environmental derating, local amendments, grounding, bonding, rapid shutdown, and permit requirements with the authority having jurisdiction before purchase or installation.

CALCULATION BASIS

NEC 2023 Table 310.16 (60 C column); Chapter 9 Table 8; 240.6(A); 690.7; 690.8. Design values do not replace adopted-code review.