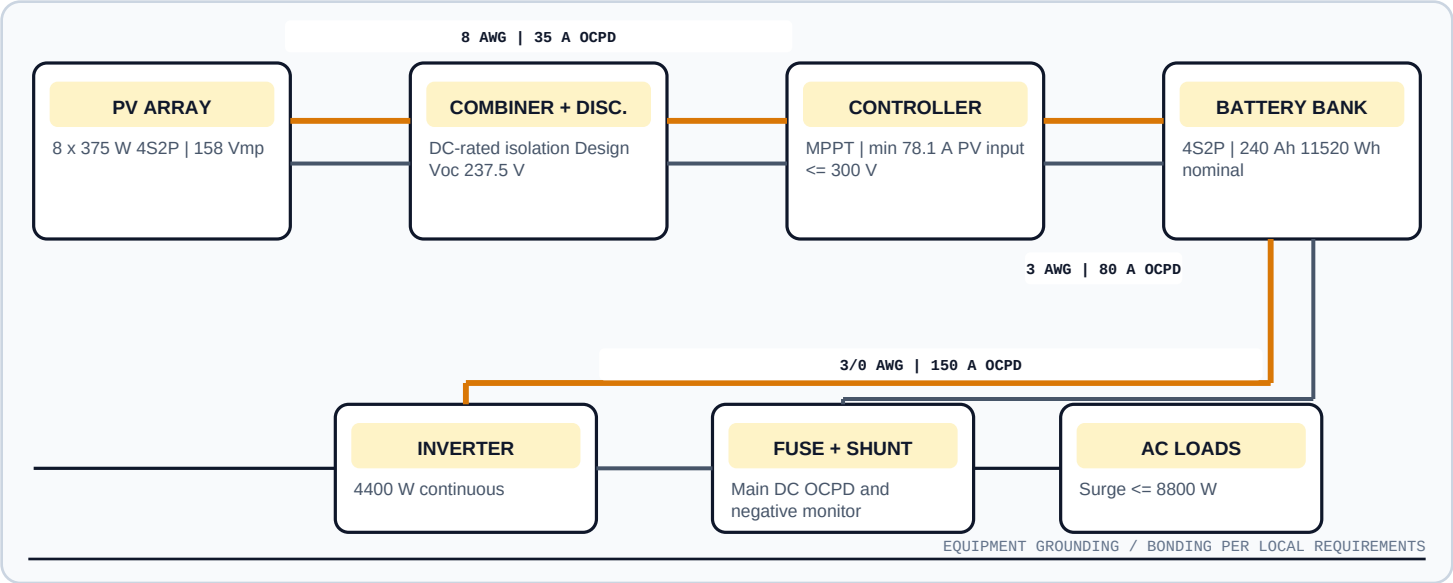
OFF GRID AUTHORITY

ONE-PAGE SOLAR WIRING PLAN

PROJECT 572240A946

FREE DIAGRAM

ARRAY	SYSTEM	BATTERY	INVERTER
3000 W | 4S2P	48 V DC	4S2P | 240 Ah	4400 W



WIRE AND OCPD SCHEDULE

RUN	ONE-WAY	CONDUCTOR	CURRENT	DROP	OCPD
Array Controller	50 ft	8 AWG CU	30.9 A	1.52%	35 A
Controller Battery	8 ft	3 AWG CU	62.5 A	0.51%	80 A
Battery Inverter	4 ft	3/0 AWG CU	101.9 A	0.13%	150 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.