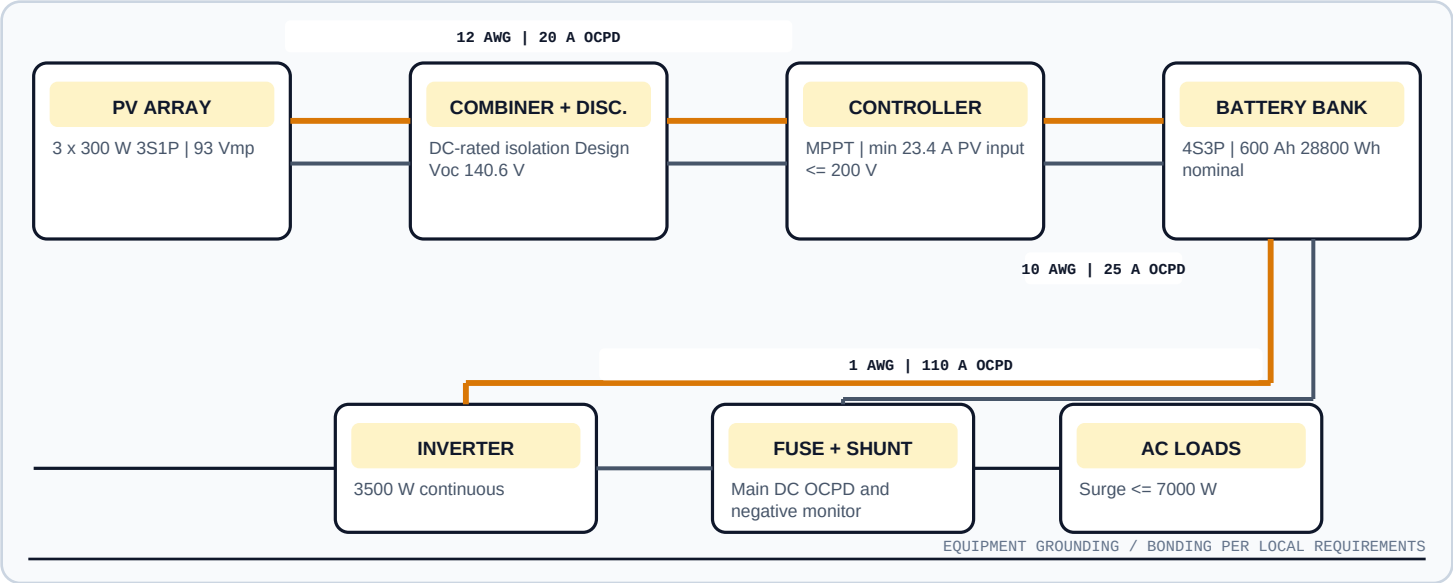
OFF GRID AUTHORITY

ONE-PAGE SOLAR WIRING PLAN

PROJECT AB9E4E11CA

FREE DIAGRAM

ARRAY	SYSTEM	BATTERY	INVERTER
900 W | 3S1P	48 V DC	4S3P | 600 Ah	3500 W



WIRE AND OCPD SCHEDULE

RUN	ONE-WAY	CONDUCTOR	CURRENT	DROP	OCPD
Array Controller	44 ft	12 AWG CU	15.8 A	2.95%	20 A
Controller Battery	4 ft	10 AWG CU	18.8 A	0.39%	25 A
Battery Inverter	2 ft	1 AWG CU	81 A	0.1%	110 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.