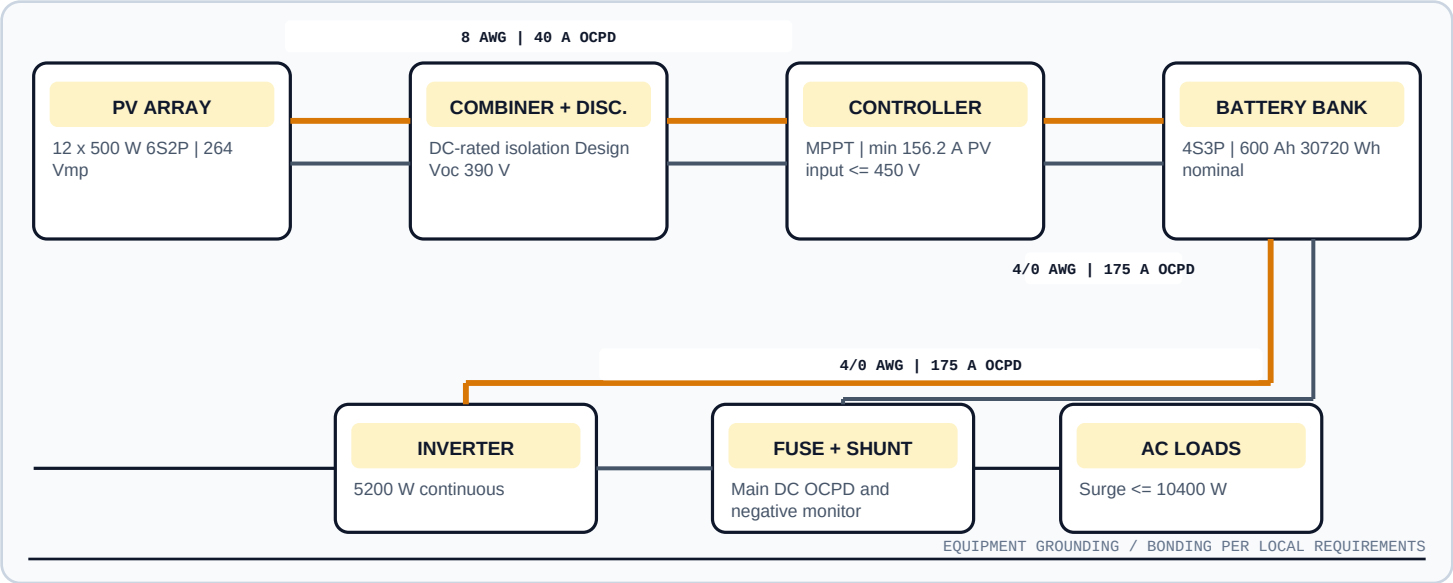
OFF GRID AUTHORITY

ONE-PAGE SOLAR WIRING PLAN

PROJECT E8F3BA2C98

FREE DIAGRAM

ARRAY	SYSTEM	BATTERY	INVERTER
6000 W | 6S2P	48 V DC	4S3P | 600 Ah	5200 W



WIRE AND OCPD SCHEDULE

RUN	ONE-WAY	CONDUCTOR	CURRENT	DROP	OCPD
Array Controller	39 ft	8 AWG CU	36.8 A	0.85%	40 A
Controller Battery	5 ft	4/0 AWG CU	125 A	0.16%	175 A
Battery Inverter	2 ft	4/0 AWG CU	120.4 A	0.06%	175 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.