GENERAC

PWRcell 2

HOME ENERGY STORAGE SYSTEM

System Wiring Guide

Tools & Fasteners Required

- Wire Cutters
- SAE Hex Keys
- Wire Strippers
- Flat Head or Square Drive Screwdriver
- Wire Stripping Knife
- Torque Wrench
- Wire Labels
- Torque Screwdriver

Steps to Follow*

Step 1.
Install Breakers | Service Entrance

Step 1A.
Install Lug Kit | Non-Service Entrance

Step 2.
Terminate Power Conductors at SDS

Step 3.
Verify SDS Terminations are Torqued to Spec.

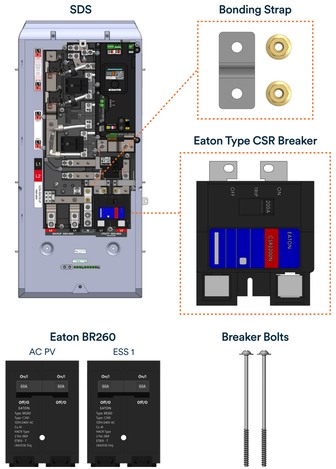
Step 4.
Terminate Control Wiring at SDS

Step 5.
Terminate Wiring at Inverter

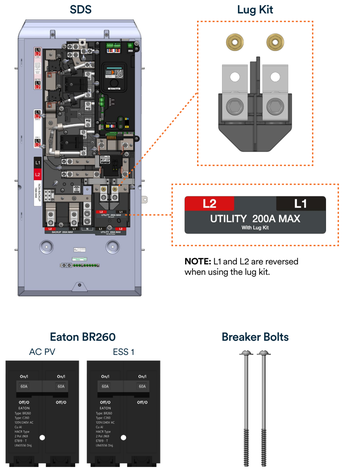
Step 6.
Terminate Wiring at Battery

*This quick start guide is intended to be used as a supplement to the PWRcell 2 Installation manuals. Reference manuals for complete installation instructions.

Step 1: Install Breakers
Service Entrance

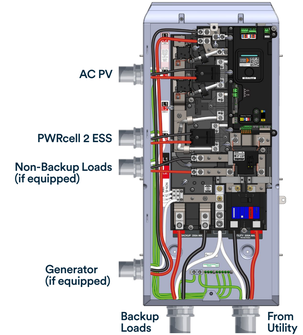


Step 1A: Install Lug Kit
Non-Service Entrance



NOTE: L1 and L2 are reversed when using the lug kit.

Step 2: Terminate Power Conductors at SDS



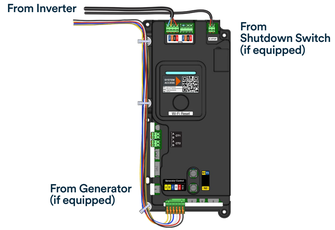
DANGER

Electrocution. Turn off all parallel power sources, including feed from utility, before touching terminals. Failure to do so will result in death, serious injury, equipment and property damage.

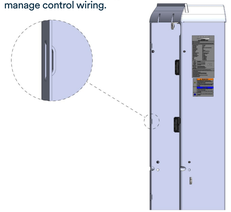
Step 3: Verify SDS Terminations are Torqued to Spec.

Connection	Wire Size	Torque (lb-in)
FASTENING MAIN CIRCUIT BREAKER TO SDS BUSBAR	N/A	48
FASTENING NEUTRAL-GROUND BOND STRAP	N/A	48
FASTENING LUG KIT TO SDS BUSBAR	N/A	48
UTILITY L1/L2 (CIRCUIT BREAKER)	SEE CIRCUIT BREAKER SPECIFICATIONS	
UTILITY L1/L2 (LUG KIT) BACKUP L1/L2	250 KCMIL – 2 AWG	375
	2 – 6 AWG	275
NEUTRAL (UTILITY, BACKUP)	300 KCMIL – 6 AWG	275
GEN L1/L2 NON-BACKUP L1/L2	1/0 – 3 AWG	50
	4 – 6 AWG	45
	8 AWG	40
	10 – 14 AWG	35
AC PV CIRCUIT BREAKER ESS CIRCUIT BREAKERS	SEE CIRCUIT BREAKER SPECIFICATIONS	
NEUTRAL (AC PV, ESS, GEN, NON-BACKUP)	2 – 4 AWG	50
	6 – 10 AWG	40
	12 – 14 AWG	15
LUGS ON GROUND BAR	2/0 AWG	50
GROUND BAR TERMINALS	4 – 6 AWG	35
	8 AWG	25
	10 – 14 AWG	20

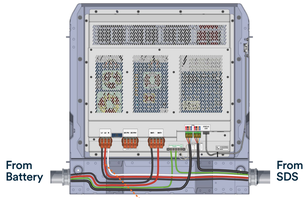
Step 4: Terminate Control Wiring at SDS Control Board



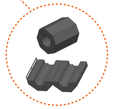
Use lances and wire ties to manage control wiring.



Step 5: Terminate Wiring at Inverter



NOTE: If not using metal conduit, clamp 2x ferrites around both AC and DC power conductors.



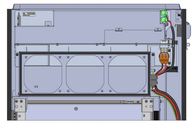
Ferrite Kit PN: APKE00118

⚠ DANGER

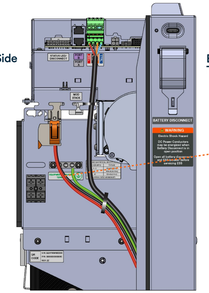
Electrocution. Turn battery disconnect OFF and de-energize PWRcell 2 Inverter before touching terminals. Failure to do so will result in death, serious injury, equipment and property damage.

Step 6: Terminate Wiring at Battery–Right Entry

BMU Front



BMU Right Side



Battery Cabinet Top Right

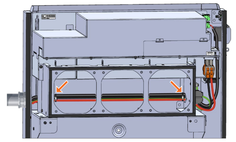
Ferrite Kit PN: APKE00118

NOTE: If not using metal conduit, clamp one ferrite around DC conductors and one ferrite around the control cable.

Step 6A: Terminate Wiring at Battery–Left Entry

BMU Front

From Inverter



NOTE: If conduit will enter the battery cabinet from the left side, use dimple on upper left and route wiring underneath the BMU using wire ties as indicated by the arrows for strain relief.

Further Support

If there are questions on any step in this document, please consult the full PWRcell 2 Installation Manuals.

If there are still questions, contact Generac PWRcell Technical Support at 1-855-635-5186 or visit www.generac.com for assistance.

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