

PWRcell 2

HOME ENERGY STORAGE SYSTEM

With the AC-coupled PWRcell 2 Home Energy Storage System, Generac is offering a more powerful, resilient, and smart product. Generac empowers installs to succeed with a lead-driven path to business growth, backed by a national network of expert sales, installation, and service support.

Every PWRcell 2 system also includes an ecobee Smart Thermostat Enhanced, enabling customers to harness the intelligence of the ecosystem.



Powerful

- Power the whole home for longer with up to 18 kWh of storage capacity
- Up to 10.5 kW^{1/2} max continuous power to start almost any load



Resilient

- Provides up to 33% more backup capability compared to the industry leader
- Virtually endless³ outage protection when paired with a Generac generator up to 28 kW¹
- Seamless backup transition protects sensitive electronics



Smart

- Works with select ecobee smart thermostats to provide easily accessible outage information and battery status for everyone in the home
- Automatically optimizes energy consumption during outages with smart thermostat setbacks
- Homeowners can monitor real-time data from anywhere with their smartphone or tablet, via the PWRview app



reddot winner 2025

¹Check with your Generac representative for the latest updates.

²De-rating may occur at temperatures above 104 °F (40 °C) and below 32 °F (0 °C).

³Subject to fuel availability.



PWRcell 2 System Specifications



PWRcell 2 Battery Cabinet

Can be configured for 9-18 kWh of storage capacity using 3.0 kWh battery modules.



PWRcell 2 Inverter

11.5 kW^{1,2} max continuous power and 130 LRA^{2,3,4}.



Smart Disconnect Switch (SDS)

Whole and partial home backup supported up to 200 A. Uninterrupted transition during an outage. Integrated power control systems (PCS). Works with select Generac standby generators and ecobee smart thermostats.

PERFORMANCE

	M3	M4	M5	M6
Battery Configuration				
Usable Energy ⁵	9 kWh	12 kWh	15 kWh	18 kWh
Max. Continuous Power ⁴	5.2 kW	7 kW	8.7 kW	10.5 kW
Max. AC Start Capacity ^{3,4}	65 A	87 A	108 A	130 A
Roundtrip Efficiency	88%			
Warranty	Battery Modules: 10 years or 7.56 MWh Inverter, Cabinet, SDS: 10 years			
Compatible Solar Inverters	Generac PWRmicro and Enphase IQ8			
Max. Backup PV Size (AC)	15 kW ²			
Max. Backup Service	200 A			
Max. Generac Generator Size	28 kW ²			
Connectivity	Wi-Fi, LTE, CAN			

ENVIRONMENTAL

Operating Temperature Range - Charging	23 to 122 °F (-5 to 50 °C)
Operating Temperature Range - Discharging ⁶	-4 to 122 °F (-20 to 50 °C)
Max. Elevation	6,560 ft. (2000 m)
Environment	NEMA 3R (all enclosures)

MECHANICAL

	CABINET	INVERTER	SDS
Dimensions - (L x W x H)	23" x 10 3/4" x 70"	22 13/16" x 8 3/32" x 24 3/32"	17 29/32" x 7 3/32" x 36 1/2"
Lift Weight	62.6 lb.	52.4 lb.	35 lb.
Total Weight	113 lb.	62.1 lb.	54 lb.

COMPLIANCE

Compliance	UL 9540, UL 9540A, UL 1973, UL 1998, UL 1741, UL 1741 SA11, UL 1741 SB, IEEE 1547, IEEE 1547a, IEEE 1547.1, CA Rule No. 21, Rule 14H (HECO SRD V2.0), ISO-NE, PRC-024, Regulation No. 8915 (PREPA), CSIP
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¹System power will be limited by battery max continuous power. 11.5 kW can be achieved with two PWRcell 2 Battery Cabinets.

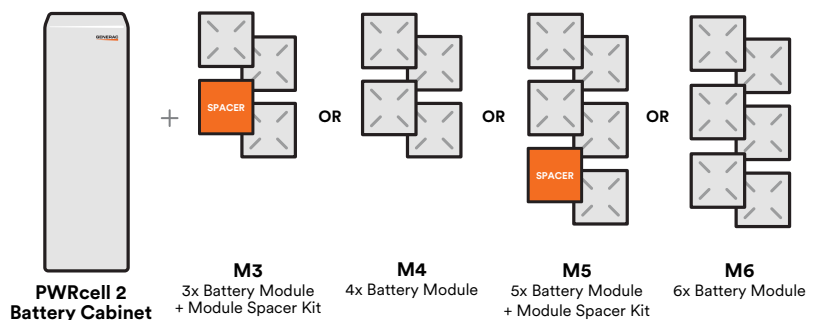
²Check with your Generac representative for the latest updates.

³Figures based on 2 kW of power consumption prior to A/C start with 12-100% SOC at an ambient temperature below 104 °F (40 °C).

⁴De-rating may occur at temperatures above 104 °F (40 °C) and below 32 °F (0 °C).

⁵At beginning of life at 77 °F (25 °C). See product warranty document for more information.

⁶Operating the battery outside the discharging operating temperature range may void the warranty.



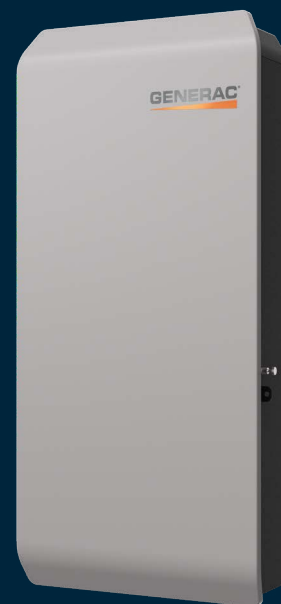
Smart Disconnect Switch (SDS)

MODEL NUMBER: APKE00067

The Smart Disconnect Switch is a versatile and powerful addition to the PWRcell 2 system that aggregates all power generation sources into one hub - supporting AC-coupled PV, battery backup and generator integration. The SDS also has integrated power control systems (PCS), reducing the need for main service panel upgrades.

Features & Benefits

- Integrates with ecobee Smart Thermostat Enhanced and Premium models, enhancing energy management capabilities
- Seamlessly connects Generac home standby generators up to 28 kW¹ for exceptional resiliency
- Wi-Fi, LTE connectivity
- Supports both partial and whole home backup
- Suitable for service and non-service entrance



Specifications

PERFORMANCE		ENVIRONMENTAL	
AC Voltage (Nominal)	120/240 V	Operating Temperature	-22 to 122 °F (-30 to 50 °C)
Grid Type	Single Phase	Operating Humidity	Up to 100% condensing
Grid Frequency	60 Hz	Maximum Elevation	6562 ft (2000 m)
Current Rating	200 A	Environment	Indoor and outdoor rated
Maximum Input Short Circuit Current	22 kA	Enclosure Type	NEMA 3R
Automatic Transfer Time	< 50 ms	COMPLIANCE	
Overcurrent Protection Device	Main breaker (EATON 2-pole series only): CSR2100N (100A), CSR2125N (125A), CSR2150N (150A), CSR2200N (200A)	Certifications	UL 1741, UL 1741 SA11, UL 1741 SB, UL 869A, UL 67, UL 1741 CRD PCS, UL 3141, IEEE 1547, IEEE 1547a, IEEE 1547.1, IEEE 2030.5, CSIP, CA Rule 21, Rule 14H (HECO SRD V2.0), ISO-NE, PRC-024, Regulation No. 8915 (PREPA)
Overvoltage Category	IV	Emissions	FCC Part 15 Class B
Primary Connectivity	Wi-Fi	INTERCONNECTION	
Secondary Connectivity	Cellular (LTE CAT-M1), Ethernet	Maximum Back Up Load Panel	200 A
System Control Method	CAN	Maximum Non-Back Up Load Panel	100 A
Warranty	10 years	Generac Generator ²	Up to 28 kW ¹
MECHANICAL		Max. AC PV Breaker Size	60 A ¹
Dimensions (L x W x H)	17 29/32 in x 7 3/32 in x 36 1/2 in (45.46 cm x 18.03 cm x 92.71 cm)	ESS	60 A ¹
Weight	54 lbs (24.49 kg)		
Mounting Options	Wall		

¹Check with your Generac representative for the latest updates.

²Compatible with Generac air-cooled home standby generators only.

PWRcell 2 Battery Cabinet

MODEL NUMBERS

Battery Enclosure Only: APKE00076

3.0 kWh PWRcell 2 DCB Battery Module: G0080041

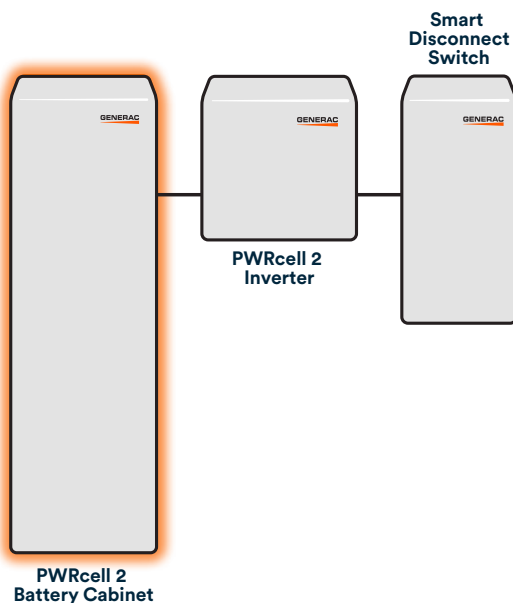
The PWRcell 2 Battery Cabinet can be configured for 9-18 kWh of storage capacity using 3.0 kWh battery modules.

Suitable for indoor and outdoor wall mount¹ with NEMA 3R rating.

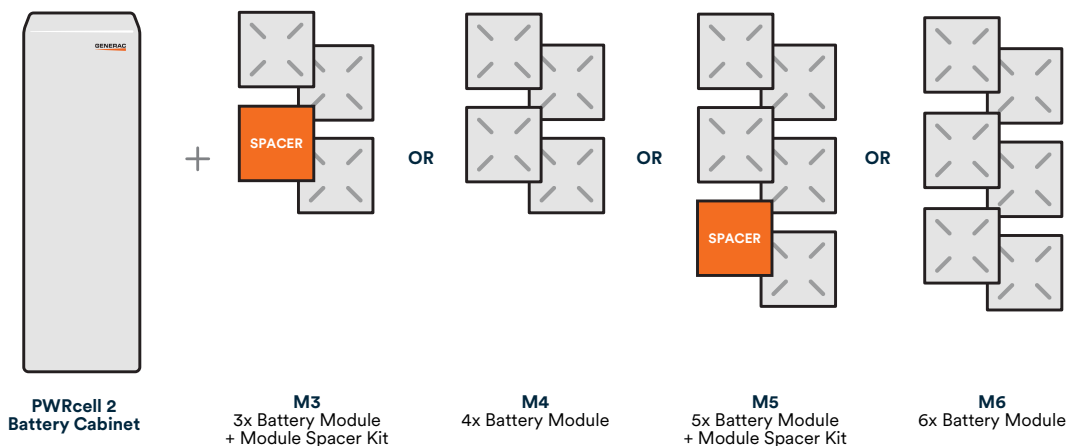


SYSTEM OVERVIEW Battery Cabinet

The PWRcell 2 Battery Cabinet is one component of the PWRcell 2 Home Energy Storage System.



SYSTEM OVERVIEW Battery Configuration



¹Optional floor support with leveling feet (APKE00109).

PWRcell 2 Battery Cabinet Specifications

BATTERY CONFIGURATIONS	M3	M4	M5	M6
PERFORMANCE				
Usable Battery Energy ¹	9 kWh	12 kWh	15 kWh	18 kWh
Max. Continuous Power ²	5.2 kW	7 kW	8.7 kW	10.5 kW
ELECTRICAL				
Voltage Range (Input/Output)	360 - 420 VDC			
Maximum Continuous Current	14.58 A	19.44 A	24.30 A	29.16 A
ENVIRONMENTAL				
Operating Temperature Range - Charging	23 to 122 °F (-5 to 50 °C)			
Operating Temperature Range - Discharging	-4 to 122 °F (-20 to 50 °C)			
Maximum Elevation	6560 ft (2000 m)			
Enclosure Rating	NEMA 3R			
MECHANICAL				
Dimensions (DxWxH)	10 ¾ in x 23 in x 70 in (27.1 cm x 58.2 cm x 177.7 cm)			
Total Weight of Cabinet	113 lb (51.3 kg)			
Total Weight of Installed Unit	278 lbs (126.1 kg)	333 lbs (151 kg)	388 lbs (176 kg)	443 lbs (200.9 kg)
Maximum Lift Weight of Cabinet	62.6 lbs (28.4 kg)			
Mounting	Wall, with optional floor support			
COMPLIANCE				
Safety	UL 9540 ³ , UL 9540A, UL 1973, UL 1998			
Environmental	FCC Part 15 Class B			
Evaluated Functions/Protection	Battery overcharge, battery over discharge, battery short-circuit, system overcurrent, battery temperature, cabinet switch (disconnect)			

¹At beginning of life at 77 °F (25 °C). See product warranty document for more information.

²De-rating may occur at temperatures above 104 °F (40 °C) and below 32 °F (0 °C).

³Suitable for use in residential non-habitable spaces.

3.0 kWh DCB Battery Module

MODEL NUMBER: G0080041

Build a modular backup system using the Generac DCB Battery Module for PWRcell 2. Stack 3-6 modules in a single battery cabinet for 9-18 kWh of storage capacity.

Features & Benefits

- Suitable for indoor and outdoor installations
- Add modules over time as customer needs evolve
- Lightweight and easy to install at 55 lbs



Specifications

ELECTRICAL	
Nominal Voltage	46.8 VDC
Usable Capacity at Typical Voltage ¹	3 kWh
Minimum Allowed Modules per Cabinet	3
Maximum Allowed Modules per Cabinet	6
ENVIRONMENTAL	
Optimal Storage Temperature Range ²	-4 to 77°F (-20 to 25°C)
Maximum Storage Temperature (<1 mo)	122°F (50°C)
MECHANICAL	
Dimensions (LxWxH)	17 5/16 in x 17 45/64 in x 3 5/16 in (440 mm x 450 mm x 84 mm)
Weight	55 lb (25 kg)
Battery Chemistry	Lithium Nickel Manganese Cobalt (NMC)
COMPLIANCE	
Safety	UL 1973
WARRANTY	
Battery Module Warranty	10 years or 7.56 MWh throughput

¹At beginning of life at 77 °F (25 °C). See product warranty document for more information.

²Maintenance voltage check recommended every 6 months.

PWRcell 2 Inverter

MODEL NUMBER: APKE00075

The PWRcell 2 Inverter is a powerful battery inverter designed for the PWRcell 2 Home Energy Storage System and features up to 11.5 kW¹ max continuous power.



Specifications

AC OUTPUT	
Maximum AC Power Output	11.5 kW ¹
Maximum Continuous AC Current	48 A
OCPD Rating	60 A
Nominal Grid Voltage	120 V / 240 V, 1Ø
Operating AC Voltage Range	105 - 132 VAC (120 V nominal)
Power Factor Range	-1 to 1
Maximum AC Fault Current	50 A ²

DC INPUT	
Nominal Input Voltage	400 VDC
DC Input Voltage Range	360 to 420 VDC
Maximum DC Input Current	34 A

PERFORMANCE	
Operating Frequency	60 Hz
CEC Weighted Efficiency	98.5%
Warranty	10 years

MECHANICAL	
Dimensions	22 13/16 in x 8 3/32 in x 24 3/32 in (57.91 cm x 20.57 cm x 61.21 cm)
Weight	62.1 lbs (28.16 kg)
Mounting Options	Wall

ENVIRONMENTAL	
Operating Temperature	-22 to 122 °F (-30 to 50 °C)
Operating Humidity	Up to 100% condensing
Maximum Elevation	6562 ft (2000 m)
Environment	Indoor and outdoor rated
Enclosure Rating	NEMA 3R

COMPLIANCE	
Certifications	UL 1741, UL 1741 SA11, UL 1741 SB, UL 1998, IEEE 1547, IEEE 1547a, IEEE 1547.1, CA Rule No. 21, Rule 14H (HECO SRD V2.0), ISO-NE, PRC-024, Regulation No. 8915 (PREPA), CSIP
Emissions	FCC Part 15 Class B

¹System power will be limited by battery max continuous power. 11.5 kW can be achieved with two PWRcell 2 Battery Cabinets. Check with your Generac representative for the latest updates.

²RMS at 3 seconds.



Questions?

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Clean Energy Installer Resources

<https://www.generac.com/ceinstaller>

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