



BATTERY ENERGY STORAGE SYSTEM





WHEN THE GRID GOES DOWN, EVERYTHING CHANGES.

DOWNTIME DOESN'T JUST DISRUPT, IT COSTS.



The Cost to a Family
No heat. No Security.
No peace of mind.



The Cost to a Business
Lost revenue.
Lost opportunities.



The Cost at Home
Spoiled food.
Wasted money.



BUT WHAT IF THE POWER STAYED ON?

Life wouldn't stop.

The lights stay on. Your refrigerator keeps running. Your internet stays connected. Your home stays warm and secure. Your business continues to operate.

No scrambling, no waiting, no disruption.

**THIS IS WHAT
ENERGY INDEPENDENCE
LOOKS LIKE.**

MEET THE BENCHMARK BATTERY ENERGY STORAGE SYSTEM (BESS)

When the power goes out or if you are living off-grid, automatic, reliable power is delivered to your home silently and without the need for fuel.

Home Hardware is your destination for energy independence.



BUILT FOR:



HOMES

Keep the essentials running during outages while lowering energy costs every day.



COTTAGES

Reliable backup power in remote locations without relying on noisy generators.



BUSINESSES

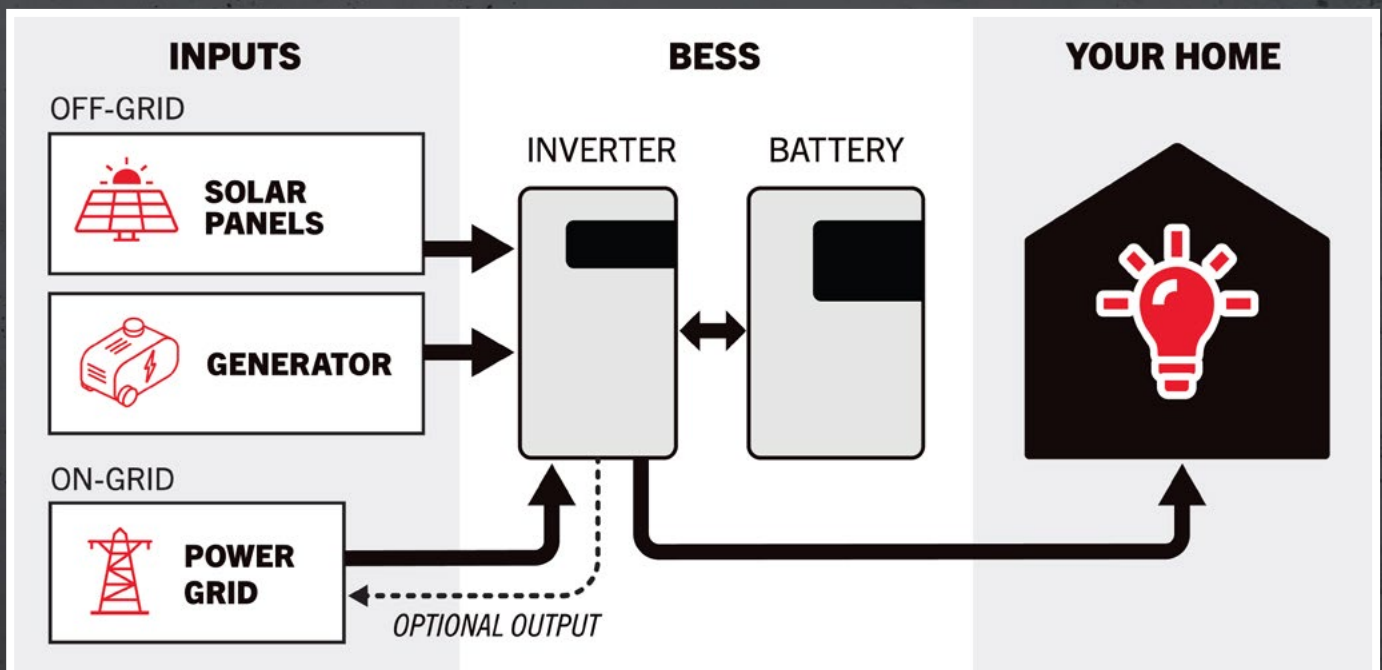
Protect inventory, equipment and productivity when the power goes down.



OFF-GRID LIVING

Generate, store and use your own energy.

THE BESS RECEIVES ENERGY FROM SOLAR PANELS, THE GRID OR A GENERATOR. IT CAN USE SOLAR ENERGY ANY TIME, NOT JUST WHEN THE SUN IS SHINING.



HOW IT WORKS

THE INVERTER AND BATTERY
WORK TOGETHER SEAMLESSLY



A SYSTEM THAT GROWS WITH YOU

Start with the backup power that you need today and expand as your energy needs change.



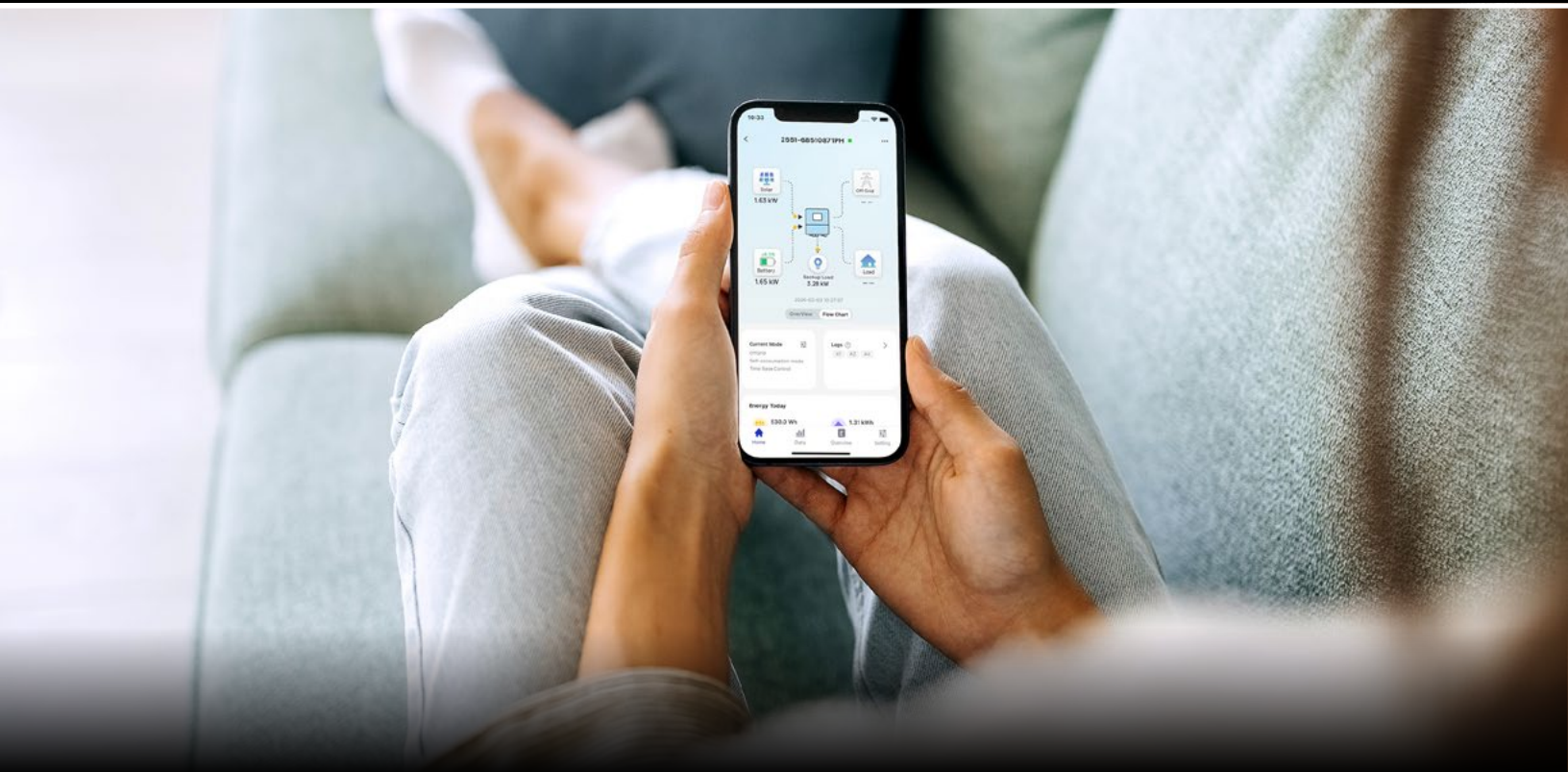
BUILT TO PROTECT WHAT MATTERS MOST



- ✓ Advanced LiFePo4 battery technology
- ✓ Long battery lifespan — rated for 8,000 cycles
- ✓ Industry-leading Canadian safety certifications
- ✓ Professional installation by any licenced electrician
- ✓ Canadian customer support

DESIGNED FOR DECADES OF DEPENDABLE OPERATION.

YOUR ENERGY. ANYWHERE.



Monitor your home's
energy use



Monitor your solar panels'
power generation



Check battery levels



View backup status



Control your system



Receive outage
notifications

ALL FROM YOUR SMARTPHONE.

THE POWER DOESN'T EVER HAVE TO STOP.

INSTEAD OF:

- Waiting for the grid to come back on
- Ordering more fuel when levels get low
- Wheeling out your portable generator

When paired with a solar panel system, the BESS can recharge every day from the sun, providing ongoing power for extended outages or ongoing daily use.

That is a completely different level of energy independence.



WORKS WITH THE SOLAR YOU HAVE, OR THE SOLAR YOU PLAN TO INSTALL.

Already have solar panels? Your BESS can work alongside existing solar installations.

Thinking about adding solar panels? The system is ready when you are.



Model	BENCHMARK
Serial Number	1617700
Capacity	16 kWh
Power	3.6 kW
Depth	210 mm
Width	210 mm
Height	440 mm
Weight	15 kg
Operating Temperature	-20 to 40°C
Storage Temperature	-20 to 40°C
Humidity	5 to 95% RH
Altitude	0 to 2000 m
IP Rating	IP65

⚠ DANGER

• Do not touch the battery cells or internal components.
• Do not use the battery as a power source for other equipment.
• Do not use the battery in a confined space.
• Do not use the battery in a location where it is exposed to fire or other hazards.
• Do not use the battery in a location where it is exposed to moisture or other liquids.
• Do not use the battery in a location where it is exposed to vibration or shock.
• Do not use the battery in a location where it is exposed to extreme temperatures.
• Do not use the battery in a location where it is exposed to corrosive gases or vapors.
• Do not use the battery in a location where it is exposed to UV radiation.
• Do not use the battery in a location where it is exposed to electromagnetic interference (EMI).
• Do not use the battery in a location where it is exposed to radio frequency interference (RFI).
• Do not use the battery in a location where it is exposed to static electricity.
• Do not use the battery in a location where it is exposed to lightning strikes.
• Do not use the battery in a location where it is exposed to other hazards.

⚠ WARNING / AVERTISSEMENT

• Ne touchez pas les cellules ou les composants internes.
• Ne utilisez pas la batterie comme source d'alimentation pour d'autres équipements.
• Ne utilisez pas la batterie dans un espace confiné.
• Ne utilisez pas la batterie dans un endroit où elle est exposée au feu ou à d'autres dangers.
• Ne utilisez pas la batterie dans un endroit où elle est exposée à l'humidité ou à d'autres liquides.
• Ne utilisez pas la batterie dans un endroit où elle est exposée aux vibrations ou aux chocs.
• Ne utilisez pas la batterie dans un endroit où elle est exposée à des températures extrêmes.
• Ne utilisez pas la batterie dans un endroit où elle est exposée à des gaz corrosifs ou à des vapeurs.
• Ne utilisez pas la batterie dans un endroit où elle est exposée aux rayons UV.
• Ne utilisez pas la batterie dans un endroit où elle est exposée aux interférences électromagnétiques (IEM).
• Ne utilisez pas la batterie dans un endroit où elle est exposée aux interférences radiofréquences (IRF).
• Ne utilisez pas la batterie dans un endroit où elle est exposée à l'électricité statique.
• Ne utilisez pas la batterie dans un endroit où elle est exposée aux éclairs.
• Ne utilisez pas la batterie dans un endroit où elle est exposée à d'autres dangers.

⚠ Read help getting started?
Scan the QR code for more information.

⚠ Lisez l'aide pour commencer?
Scannez le code QR pour plus d'informations.

BENCHMARK
16 kWh

RUN
MARCH
ALARM
ALARME

Read help getting started?
Scan the QR code for more information.

Lisez l'aide pour commencer?
Scannez le code QR pour plus d'informations.

⚠ WARNING / AVERTISSEMENT

⚠ Risk of Electric Shock
Do not touch the battery cells or internal components.
Do not use the battery as a power source for other equipment.
Do not use the battery in a confined space.
Do not use the battery in a location where it is exposed to fire or other hazards.
Do not use the battery in a location where it is exposed to moisture or other liquids.
Do not use the battery in a location where it is exposed to vibration or shock.
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Do not use the battery in a location where it is exposed to lightning strikes.
Do not use the battery in a location where it is exposed to other hazards.

⚠ Risque de choc électrique
Ne touchez pas les cellules ou les composants internes.
Ne utilisez pas la batterie comme source d'alimentation pour d'autres équipements.
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POWER ON/OFF
PUISSANCE MARCHÉ / ARRÊTÉ

⚠ CLEAR ALARM
SUPPRESSION DE L'ALARME



BACKUP POWER WILL EVENTUALLY END, BUT ENERGY INDEPENDENCE DOESN'T.

Unlike a traditional home standby generator, a BESS isn't just for emergencies. It works for you every day by storing low-cost energy for when you need it most.

TRADITIONAL BACKUP POWER FROM A GENERATOR OR A HOME STANDBY GENERATOR:

- ✗ Waits for the power to fail
- ✗ Uses fuel
- ✗ Requires maintenance
- ✗ Makes noise
- ✗ Produces electricity only when running

ENERGY INDEPENDENCE WITH THE BESS:

- ✓ Uses clean stored energy
- ✓ Can power your home every day when paired with solar panels
- ✓ Powers your home automatically
- ✓ Can feed energy back to the grid for additional cost savings
- ✓ Works even when fuel isn't available

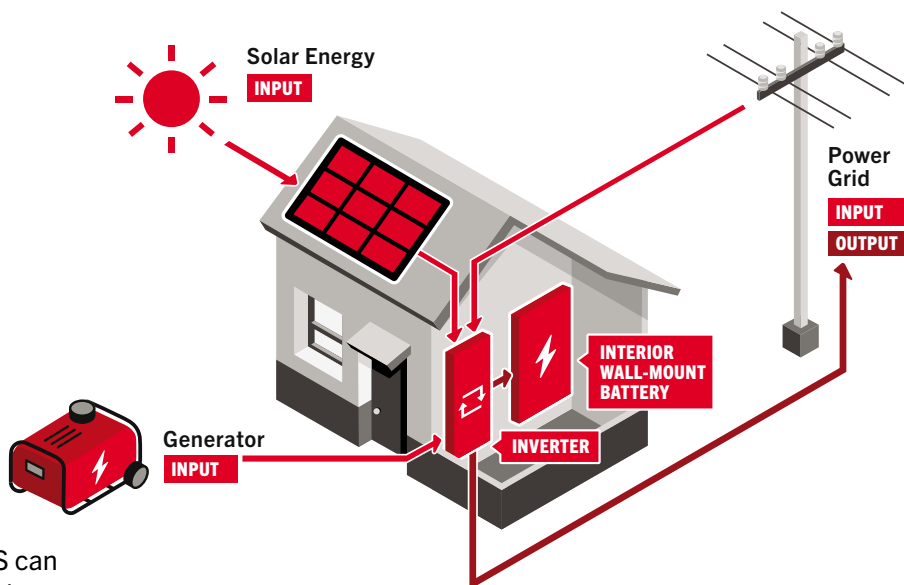
PRODUCT SPECIFICATIONS

THE PERFECT SOLUTION FOR THOSE LOOKING TO STORE ENERGY FOR LATER USE.

Whether your home needs backup power during outages or you're seeking greater energy independence to reduce reliance on the grid, this system ensures you're always powered.

HOW IT WORKS

1. The Inverter converts Grid, Solar, and Generator power into usable home energy.
2. The Battery stores usable home energy for later use.
3. The BESS automatically activates when a power outage is detected, or on a user-set schedule.
4. When excess energy is generated, the BESS can feed energy back into the grid, or store it for later.



USE CASES



**Home Backup
for Power Outages**



Off-Grid Use



**Money Saving
Off-Peak Power Use**

16KWH INDOOR HOME BACKUP BATTERY

5210-171

Battery Capacity	16,077 Wh
Voltage Output	51.2V DC (44.8-56.2)
Amp Output	210A DC Max
Life Cycle	>8000 cycles @ 80% DOD
Waterproof Rating	IP65
Battery Chemistry	Lithium Iron Phosphate (LFP)
Discharging Temperature	-20°C to 45°C
Dimensions (Height x Width x Depth)	31.5x19.7x8.9 in (800x500x227mm)
Weight	282 lbs (128 kg)

11.4KW INDOOR HOME BACKUP INVERTER

5210-168

Wattage Output	11,400W
Voltage (Split Phase, 2/3 Phase)	120/240V, 120/208V
Amp Output	AC 41.7A (Nominal), 47.5A (Max)
Transfer Time (ms)	<10ms
Waterproof Rating	NEMA 3R
Operating Temperature	-25°C to 60°C
Max Efficiency (Solar to AC)	98%
Max Efficiency (Battery to AC)	94.5%
Dimensions (Height x Width x Depth)	31.5x16.5x9.4 in (800x420x240mm)
Weight	97 lbs (44 kg)

CERTIFICATIONS



**INVERTER: UL1741, UL1699B, CSA C22.2 No.107.1, No.330, CSIP
BATTERY: UL1973, UL9540A INVERTER AND BATTERY: UL9540***

*The Benchmark Battery and Inverters are certified only when used together. Using third-party inverters or batteries voids this certification, and will compromise safety and performance. Multiple Benchmark batteries and inverters can be installed in parallel, subject to local electrical standards.

HOW MUCH POWER DO YOU NEED?

Find out what your setup might look like based on your situation.

EXAMPLE 1



Off-grid cabin



Small to medium sized home,
running essentials only

SYSTEM SETUP	TOTAL OUTPUT (KW)	TOTAL CAPACITY (KWH)	SAMPLE ITEMS RUN			DAYS OF USE	
 1 x inverter, 1 x battery	11.4	16	 1.2 KWH/DAY 1/4 HP Sump Pump  0.5 KWH/DAY Microwave	 1 KWH/DAY Small Fridge  0.25 KWH/DAY TV/Laptop Charging	 1 KWH/DAY WiFi/Security  0.2 KWH/DAY LED Lighting	 Moderate Use: 2-3 days ~6 KWH/DAY	 Heavy Use: 1-2 days ~8 KWH/DAY

EXAMPLE 2



A medium sized home or cottage with larger power demands
that requires extended output and capacity

SYSTEM SETUP	TOTAL OUTPUT (KW)	TOTAL CAPACITY (KWH)	SAMPLE ITEMS RUN				DAYS OF USE	
 1 x inverter, 2 x batteries	11.4	32	 0.6 KWH/DAY Computer  1.5 KWH/DAY Small Cooktop Meal	 1 KWH/DAY TV  1.8 KWH/DAY WiFi/Security	 1.4 KWH/DAY Overhead Lighting  2.5 KWH/DAY Oven-baked Meal	 1.5 KWH/DAY Fridge + Freezer  3 KWH/DAY Furnace/Heat Pump at -10°C	 Moderate Use: 2-3 days ~16 KWH/DAY	 Heavy Use: 1-2 days ~20 KWH/DAY

EXAMPLE 3



A large home with large power demands
that requires extended output and capacity

SYSTEM SETUP	TOTAL OUTPUT (KW)	TOTAL CAPACITY (KWH)	SAMPLE ITEMS RUN			DAYS OF USE	
 2 x inverters, 2 x batteries	22.8	32	 3.5 KWH/DAY Washer+Dryer  2 KWH/DAY 1/2 HP Sump Pump	 2.5 KWH/DAY Oven + Cooktop  2 KWH/DAY LED Lighting	 2.5 KWH/DAY High-End Computer + TV  2 KWH/DAY WiFi/Security	 Moderate Use: 2-3 days ~16 KWH/DAY	 Heavy Use: 1-2 days ~20 KWH/DAY

*All figures shown are approximate and for illustrative purposes only. Actual power consumption and run times will vary.
Household appliances can operate indefinitely when the BESS is recharged by solar power.

CONTACT & SUPPORT

Supported by Midland Power Inc.

Contact us directly for assistance and warranty help.

CUSTOMER SERVICE

700 Service Centres nationwide.

Call and you'll speak to a Canadian
Customer Service Representative.

 Email support@midlandpowerinc.com

 Call toll-free at 1-877-528-3772
Mon-Fri, 8:30AM-4:00PM EST

Scan this QR code
to learn more about
energy independence:



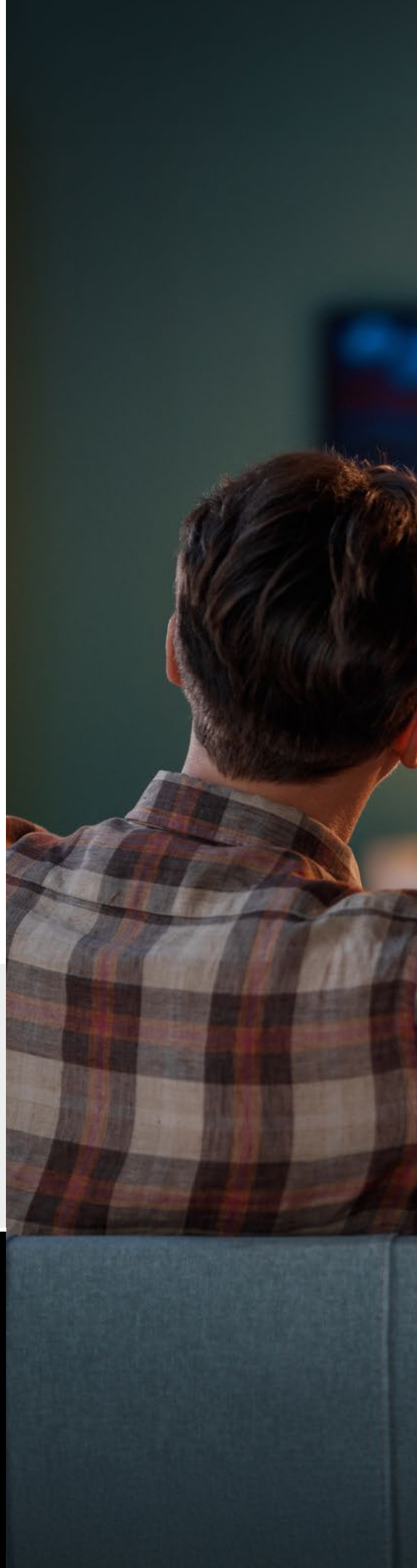
WARRANTY



10 YEAR LIMITED WARRANTY

BENCHMARKTM

SUPPORTED BY
Midland







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about energy independence:

