TRYSTAR

GridPak

PORTABLE, RENEWABLE ENERGY SOLUTION

Innovative, Reliable Power Generation Solution With Zero CO2 Emissions

The GridPak is Trystar's introductory product in the portable, commerical power generation market. Designed to assist customers with meeting their carbon emission reduction targets, the GridPak is an alternative to a portable commercial diesel- or gasoline-powered generator. Comprised of a formidable solar array, battery energy storage system (BESS), and LP fueled backup generator, the GridPak is a self-contained compact trailer... easily towed by a pickup truck for use at outdoor events and in remote, off-grid locations.

Fully-deployed GridPak ... Leveling feet anchor firmly to the ground; solar array auto-rotates to follow the sun angle

Flexible Design... Scalable Applications

GridPak is ideal for outdoor applications which require portable, reliable, and renewable power including:

- Disaster response and recovery
- Electric signage
- Construction sites
- Portable illumination
- Entertainment venues
- Military operations

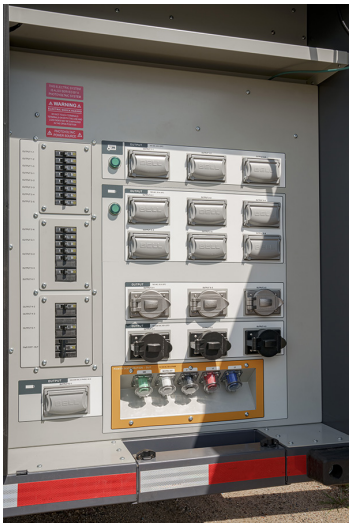
When additional portable power is required, up to four (4) GridPak units can be configured together to support complex applications.

Trystar's GridPak renewable energy solution ... a self-contained and highway approved towable trailer

Easy Operation... Low Maintenance

GridPak deploys in four (4) easy steps, within about 15 minutes, and does not require any particular skill set or tools! The operator controls enable the leveling feet to extend and anchor firmly to the ground; and the solar panels unfold, lock into position, and then automatically track the sun angle for optimum solar efficiency.

- Locate the GridPak on relatively flat, stable ground
- Initiate leveling feet and solar panel deployment
- Connect the load(s)
- Power-up the GridPak



Easily-accessible output connectors

15765 Acorn Trail / Faribault, MN 55021 / 507.333.3990

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Technical Specifications

Depending upon the customer's application, GridPak can be specified to provide 60 kWH or 120 kWH of battery energy storage, with an option for 180 kWH. Yet power is always available, because the solar panels constantly charge the batteries. During inclement weather or in heavy overcast skies, the GridPak's LP powered genset will also keep the batteries charged.

Designed for robust outdoor conditions, the GridPak's weatherized design includes onboard water-tight storage compartments for transporting accessories and connections needed for your application. Additionally, GridPak can be specified with a cold-weather kit that keeps the BESS warm ... thus maximizing energy storage, while enhancing the reliability of the backup genset.

Output Connectors	
Set of female Cam Locks	120/208 VAC 3-phase (100A)
NEMA L21-20R Twist Lock	120/208 VAC 3-phase (20A)
3x CS6369 Twist Lock	120/208 VAC (50A)
3x NEMA 5-30R	120 VAC (30A)
6x NEMA 5-20R Standard Outlets	120 VAC (20A)
Operating Temperatures	
System Operating Temperatures	-40° F to 140° F
Mechanical Specifications (60kWH or 120kWH)	
Deployed Dimensions (W x L x H)	16.3' x 26' x 21'
Stowed Dimensions (W x L x H)	8.5' x 26' x 8.3'
Total Weight*	13,000 or 15,000 lbs.
Onboard Generator	
Generator Power	6.5kW (120 VAC/54A)
Fuel Type and Storage	3 x 43 lbs. Propane Tanks (30 Gal. Total)
Converted Energy	130kWH
Noise Level	70 db(A) @ 10 Ft.
Battery Charging Times (60kWH or 129kWH)	
Utility (30kW)	2.0 Hrs or 4.0 Hrs
Generator (6.5kW)	9.2 Hrs or 18.4 Hrs
Solar (5.7kW)	10.5 Hrs or 21.0 Hrs

Solar Savings (Solar Array Lifetime: 30 yr. min)	
Solar Energy Connected (8 Hrs. Peak Sun)	320kWH/Week, 500MWH/Life
Diesel Saved	31 Gal./Week, 48,268k Gal./Life
Carbon Offset	690 Lbs. CO_2 per Week 541 T CO_2 Lifetime
Output Power	
Continuous Output Power (Battery + Generator)	24kW / 48kW (option) + 6.5kW onboard generator
Peak Battery Power	60kW
Output Voltage Options	120VAC & 208VAC (60Hz) 1 Phase / 3 Phase
Output Voltage Capacities	83A @ 208VAC, 3 Phase 144A @ 208VAC, 1 Phase 250A @ 120VAC, 1 Phase
Max. Power Output of Combined Trailers	120kW (4x Trailers)
Battery Energy Storage	
Battery Capacities (depending on model)	60kWH and 120kWH or 180kWH Option
Total Trailer Energy Capacity (Battery + Generator)	190kWH and 250kWH or 310kWH Option
Battery Chemistry	Lithium Iron Phosphate ($LiFePO_4$)
Safety	
Nationally-Recognized Approved Subsystems	
Easily Accessible E-Stops	

*Without accessories and extra equipment

Low Maintenance... High Return

The GridPak trailer is DOT-approved and road-ready, featuring a long-lasting and corrosion-resistant finish. The cabinets and panels are IP65-rated against dust and water intrusion... the GridPak's durability means fewer repairs.

To help enhance ROI, GridPak may be eligible for federal investment tax credits, utility rebates, and state tax incentives.

Custom Solutions At Scale

The global energy mix is shifting from fossil fuels to renewables.
Trystar's GridPak enables customers to reduce their carbon footprint, increase their energy independence and resilience, and save costs.

As an element in Trystar customers' sustainable journeys, the GridPak is a portable, renewable power solution for today and the future... and can be scaled and tailored to each customer's specifications.

In addition to GridPak, Trystar also designs and manufactures many other custom electrical and renewable energy solutions!

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