



Hybrid Energy Advanced Trailer System (HEATS) - BTP-70786



Bren-Tronics trailer with panels closed

The Hybrid Energy Advanced Towable System (HEATS) is an arrangement of high energy battery systems with quickly deployable renewable energy devices and central power management on a towable trailer.

One gallon of JP-8 can last much longer when utilizing renewable energy

Lithium iron phosphate batteries provide the high power required for motor startups or pulsed applications.

PORTABLE SOLAR AND WIND ENERGY REDUCES BURDEN OF FUEL

THE NEW BREN-TRONICS HEATS PROVIDES:

- MIL-Standard
- Easily deployable by one person
- Handles up to 19kW peak AC loads
- LTT-FE Trailer Platform
- Reduces fuel consumption
- AC synchronization allows multiple HEATS to form a mini-grid

Each system will consist of the following:

- Trailer Platform
- Rechargeable Battery System
- Crankable masts
- Master Controller
- Wind Turbines
- Solar Panel System
- Visual display and data logging





EXTEND RUN TIMES INDEFINITELY:

HEATS can capture over 15KWh of energy in one day, drastically reducing need for fuel

The system uses Maximum Power Point Tracking (MPPT) which is a technique in which the output of the charger is constantly adjusted to optimize power transfer from the solar panels to the batteries. MPPT contributes to a higher efficiency Charging System.

It includes 3.8 kW diesel generator that provides back-up power if lack of sun/wind and incorporates an advanced touch screen using interface providing system status and logging capability.



Multi-Trailer Operation (Microgrid)

HEATS can be paralleled together to create a higher energy network. In the case of the AC output being utilized from multiple Power Systems, an AC synchronization function is built in to insure the AC sources are the same phase.

Please contact Bren-Tronics for more information.

DESCRIPTION		BASELINE CONFIGURATION	WITH EXPANSION PACK
Energy Storage		7.1 kWh	14.2 kWh
Solar Panel Power		2 kW	2.5 kW
Wind Turbine Power		350 W at 15 mph 680 W at 25 mph 1250 W at 35 mph	350 W at 15 mph 680 W at 25 mph 1250 W at 35 mph
JP-8 Genset Power		3.8 kW	3.8 kW
AC Outputs	110/220VAC		
	continuous	6.4 kW	9.6 kW
	peak	12.8 kW	19.2 kW
DC Outputs	24VDC	3 kW	3 kW
	12VDC	480 W	480 W
	USB Charging Ports (x 5)	5VDC at 2A	5VDC at 2A
External Charging Inputs	24VDC	1.4 kW	1.4 kW
	110VAC	1.75 kW	1.75 kW
	220VAC	7 kW	7 kW
Trailer platform		LTT-FE	LTT-FE

	SOLAR	WIND	JP-8	12V DC	24VDC	110VAC	220VAC
INPUTS	X	X	X		X	X	X
OUTPUTS				X	X	X	X

Bren-Tronics is an advanced designer and manufacturer of primary and rechargeable batteries, charges and complete energy storage systems from watt hours to megawatt hours. For a complete description of our products refer to Bren-Tronics website at: <http://www.bren-tronics.com>



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