



AREENERGY

ARE-Energy's on-site power plants – the complete package

Our power plants are built on a legacy of reliability. Now, with proven success operating on either diesel or B-85 biofuel, they're the ideal green solution for low-cost, on-site power plants for continuous operations.

Whether you need to generate your own electricity independent from the utility grid or feed power back to the grid, ARE-Energy's power plants come with proven equipment, expert service and financing alternatives for qualified buyers.

ARE-Energy power plants are capable of producing 2.8 MW of power, with up to four units producing 12 MW. They can either be skid-mounted or assembled in our patent-pending containerized housing set to reduce shipping and installation costs.

Dependable Components

Engine and generator: Our robust, medium-speed engines have a proven history of reliable performance in the most demanding environmental conditions. Both the four-stroke EMD engine in our 1000 Series units or the two-stroke EG engine in our 2000 Series units have a long history of fuel efficiency for both 50 or 60 Hz power.

Electrical controls and switchgear: Our dependability is enhanced with electrical controls and switchgear custom-engineered by Enercon Engineering, one of the most experienced suppliers in the industry. The units can be configured to run parallel or synchronized to the grid.

A dependable Alternative for Continuous, "On-Site" 2-12 MW Electric Power

Green Alternatives

B-85 biodiesel: ARE-Energy has successfully completed 2,000 hours of operations on B-85, ASTM 6751 biodiesel fuel on our Series 1000 units – with power reliability at near 99 percent and direct maintenance cost under .03 cents per kilowatt-hour.

CHP (Combined Heat and Power)
Equipment: Continuously operating CHP equipment can be added to use exhaust heat from the engines, producing hot water or low-pressure steam to increase fuel efficiency above 70%.

Low Costs

Patent-pending tri-set packaging: Our system houses components for each unit within the dimensions of three 20-foot-high cube intermodal containers. This option enables permit-free highway transportation and easy international shipment to reduce costs.

Installation: Site preparation requires only a slab, engineered for local soil conditions, about 70 feet long and 16 feet wide for each unit. The units need only be lifted from the trailer onto the slab and bolted together. The power plant can be running within three to four days.

The Complete Package

Service maintenance contract: ARE-Energy will help our customers find local experts to service the engines. In addition, our parent company, American Railroad Equipment, maintains a large supply of parts to support warranties and repairs.

Financial alternatives: Numerous financial institutions are familiar with the quality and dependability of our equipment. Financial alternatives are available to qualified buyers through CIT Financing in the United States and internationally through Ex-IM Bank. ARE-Energy will assist buyers with all paperwork.

For more information, contact Gina Baier at:



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Specifications

General				
Model		Series 1000	Series 1000	Series 2000
Power Continuous		G60 Hz	G50 Hz	E60 Hz
Engine				
		GE 7FDL	GE 7FDL	EMD-20 645-E
Cylinders		16	16	20
Stroke Cycle		4	4	2
Cylinder Arrangement		45° V	45° V	45° V
Bore		228.6 mm (9 in.)	228.6 mm (9 in.)	230.19 mm (9 1/6 in.)
Stroke		228.7 mm (9 in.)	228.7 mm (9 in.)	254 mm (10 in.)
RPM		900	1,000	900
Continuous		3,052 kw (4,100 bhp)	3,052 kw (4,100 bhp)	2,865 kw
Maximum		3,357 kw (4,500 bhp)	3,357 kw (4,500 bhp)	-----
Manufacturer				
		Kato/GE	Kato/GE	Kato
KW		2,800	2,800	2,800
KVA		3,500	n/a	3,500
Number of Poles		8	6	8
RPM		900	1,000	900
Voltage		4,160	11,000	4,160
Packaging System				
Skid Mounted	Wt (lb)	36,000	53,000	28,000
	Dim (LWH)	20' x 8' x 9'	20' x 8' x 9'	20' x 8' x 9'
Containerized	Wt (lb)	46,000	63,000	38,000
	Dim (LWH)	20' x 8' x 9.5'	20' x 8' x 9.5'	20' x 8' x 9.5'
Electrical Controls and Switchgear				
Manufacturer		Enercon Engineering	Enercon Engineering	Enercon Engineering
Controls		Paralleling equipment	Paralleling equipment	Paralleling equipment
Monitoring		PLC with digital readout	PLC with digital readout	PLC with digital readout
Protective Devices		Current/ Voltage/Frequency	Current/ Voltage/Frequency	Current/ Voltage/Frequency
Switchgear		Metal-clad medium voltage	Metal-clad medium voltage	Metal-clad medium voltage

Series 1000 50 and 60 Hertz Units

Customized 2.8 MW 50 Hertz Power Plant Single, Parallel, or Synchronized Units Target 8 Month Delivery Schedule.



Equipment is packaged in 3 20' long x 10' wide x 12 high housing - extra storage container holds elevated air cooling equipment.

Easy Shipment. Fast Installation