

PRIME POWER SYSTEM

PRODUCT SUMMARY:

No Fuel, No Pollution, and No Waste

- Stand-Alone Power Plant
- Produce Pure Sine Wave Power
- Provides Prime Continual Power 24/7-365
- Ideal for Prime Power, Peak Surge, Base Load
- Capable of Parallel Operation
- Useable to Inject Grid Frequency
- Can be used as On or Off-Grid
- Synchronous Dynamos or Invertors
- With industrial boost winding to start heavy loads
- Can produce 150% of rated power for 5 seconds

Financing is Available

(Explore Financing Options)

<https://www.valenciaenergypower.org/financing-avabile>

Not your traditional generator, but tomorrow's power system –Today

PRODUCT DESCRIPTION:

Innovative Design and Powerful Performance:

A true "Stand Alone fixed Power Plant" that operates on gravitational kinetic principles to produce continuous on-demand power for commercial and industrial operations with heavy surge demands.

The breakthrough in technology has distinct advantages over both fossil and renewable technologies. These advantages enable it to operate at a very low operating cost structure, compete successfully against all other sources of power generation available, and most likely lead in clean or green energy production.

For the first time ever allows the production of electric power without the need for large centralized structures or traditional propulsion forces. It produces energy continually without fossil fuel input, and without the emission of pollutants, or the production of waste.

The portable units produce electric currents using natural gravitational forces. The System can produce power as a single unit or synchronized and interconnected combination of multiple units to achieve the desired capacity.

The System operates on the principles of over unity, (the ability to produce more electricity than it consumes). Its operation is enhanced through the induction of specific proprietary technologies that allows the System to generate constant rotation, enabling it to produce continuous power, whilst consuming only a small percentage of the power it produces to operate.

The efficient design of the stand along power plant, supports easy transportation, rapid permitting and deployment, and quick interconnection of the power Systems to minimize setup time from months or years to weeks. It allows for the closest thing to plug and play for immediate operation.

THE DYNAMIC GENERATOR





It's tomorrow's technology - today.

Product Models:

Custom Built Power Plant			
Model:	O-35	O-65	O-125
Dynamo Specifications			
Rated Power: (kilowatts per Hours)	35	65	125
Continual Prime Output: (KWh)	25	46	88
Maximum Surge Output for 5 Seconds	52.5	97.5	187.5
Frequency:	50/60Hz	50/60Hz	50/60Hz
Phase:	1 or 3 Phase	3 Phase	3 Phase
Optional Phases	Single Phase		
Optional Phases	DC		
Reserve for Equipment Operation (KWh)	3	6	12
Rated Load For Prime Power	21.5	40	76
Frequency Accuracy	0.5%	0.5%	0.5%
Volt Accuracy	+/- 1.5%	+/- 1.5%	+/- 1.5%
Voltage Regulator	Electronic	Electronic	Electronic
RPM	1800	1800	1800
Synchronous Drip proof Self Excitation	4 - Pole	4 - Pole	4 - Pole
Efficiency (Continual Operation)	98%	98%	98%
Model 2 Bearing	Yes	Yes	Yes
Insulation of Class H	Yes	Yes	Yes
HP Required for Full Output	60	120	250
Electric Motor Brand			
Motor Model	Standard	Standard	Standard
Motor Type	3 Phase	3 Phase	3 Phase
HP- Displacement	3	5	12
Fly Wheel Weight	35	65	125
Auto Lube Cooling	Air / Liquid	Air / Liquid	Air / Liquid
RPM	1800/3500	1800/3500	1800/3500
Variable Speed Controller	Yes	Yes	Yes
Starting System (from DC batteries)	Yes	Yes	Yes
Energy Consumption	3	6	12
Remote Control & Auto	Yes	Yes	Yes
Governor	Electronic	Electronic	Electronic
Control Panel	Yes	Yes	Yes
Main drive Fly Wheel Kinetic Energy			
Quantity Drive	2	4	8
Total Weight	1000	2000	4000
RPM	30	30	30
Diameter of Each (In feet)	5	5	5
Horse Power Output	60	120	250
NOISE LEVELS			
Open dB @ 3 meters	10	10	10
Closed dB @ 3 meters	3	3	3
Dimensions "Enclosed" Model			
Length (FT)	10	16	20
Width (FT)	8	8	8
Height (FT)	8 or 9	8 or 9	9
Gross Weight (Lbs.)	10,000	16,000	20,000
Unit type	Industrial	Industrial	Industrial



POWER DRIVE:

1. The G-Force “Power-Drive” Kinetic Flywheel: Ensures Operation at a low RPMs
2. Rigid Gears Design: Provide continuous operation.
3. Adjustable Frequency: Controls RPM, hertz and ensures smooth starting up/shut down.
4. Electronic Control System: For maximum efficiency and remote monitoring
5. Auto Swishes: Assures automated transfer operations, and quick starting.
6. Auto Lubrication System: Ensures durability, better performance, less maintenance, and continual operation.
7. Automated Malfunction Shutdown: Prevents System damage due to overheating, abnormal vibrations, or abnormal sounds.
8. Efficient Dual Drive: Electric Motors 3 phase, “industrial rated”, that runs cooler, reduces energy consumption, provides maximum torque at low speeds.

DYNAMO:

The synchronous dynamo is designed with Insulation of class H and drip-proof technology, containing 4 pole, salient rotating field with self-excitation plus constant voltage. These dynamos are heavy and rugged in construction and easy to maintain and are built to IEC34, Nema MG1-22, GB755, CSA C22.2-100, VDE 0530 and ASB59 standards.

1. Dynamo: Smaller and lightweight that operates at 1800 RPM and deliver 70% continual efficiency for prime power.
2. Electronic Voltage Regulator: Regulates the output voltage to $\pm 5\%$, to prevent damaging voltage spikes.
3. Rugged Construction: Factory testing assures safety and offer no defect during operation.
4. Industrial Boost Winding: Capable of starting heavy loads, will produce 100% of rated power for 5 seconds.
5. Capable of Parallel Operation: 2 Bearing, 3-pole, and for 50 or 60 Hz
6. Can be wired for 120/240 Volts 3 Phase, or 120/208 Volts 3 Phase, or 277/480 Volts 3 Phase or 120/240 Volts 1 Phase (minus 1/3 power).
7. With AS440 AVR installed

OPTIONAL:

On or Off Grid Inverter: Built inside a charger that supports stand alone operation, long service life, providing Pure Sine Wave useable with or without Battery Bank (built with an intelligent simple structure design it receives DC/AC Input and delivers Pure Sine Wave AC Output).

CONTROLS & MONITORS:

1. Auto & Manual (On/Off) switches for the operating mode selection and provides easy - at-a-glance - status indication in any condition.
2. Multilingual Display capable of logging 50 events for logging maintenance history. Sealed, Raised Buttons smooth weather-resistant users’ interface for programming and operations. Utility Voltage Sensing for constant monitoring of utility voltage at set points (65% dropout, 80% pick-up) of standard voltage.
3. Generator Voltage sensing for constant monitoring of generator voltage to ensure the smoothest power delivery. Utility Interrupt Delay with a factory default setting of 60 seconds and an adjustable range of up to 1500 seconds for prevention of nuisance start-ups of the System.
4. System Start-Up & Shutdown with frequency drivers to ensure slow, smooth start-up and shut down within 30 seconds for increased efficiency.



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5. Programmable Exerciser with selectable settings for weekly or monthly operation for periodic operation of generator to prevent oil seal dry out and damage between power outages.
6. Smart Battery Charger (compatible with lead-acid and AGM-style batteries) that delivers charge at varying rates (depending on outdoor air temperature) only when needed..
7. Main Line Circuit Breaker for protecting System from overload whilst maintaining a constant Hz frequency.
8. Electronic Frequency Driver: for controlling the RPM and synchronizing the waveform to a constant 50 / 60 Hz frequency.

SYSTEM PACKAGING:

The Power System is housed in a weather protective and sound attenuated enclosure that minimizes noise, protects against excessive heat, freezing temperature, and winds of up to 150 mph. Enclosure is painted with a durable industrial Rustoleum paint that protects the System from the effects of weather conditions, and also has:

1. Hinged key locking roof and side panels for security, and lift-out front that provides easy access for routine maintenance.
2. Critical Grade interior fire retardant insulation that reduces vibrations and noise, and protects generator from excessive exterior heat, or freezing temperatures.
3. A compact and attractive design with 8 by 20 footprint that supports environmental tolerance, and aesthetic integration, making the system suitable for installation within 5 feet of an occupied building.

INSTALLATION PACKAGE:

1. Flexible Line Connector (designed to absorb vibration when connected to rigid pipe) for connection to load.
2. A complex composite rubber-mounting lattice to prevent the System from settling during vibrations or earthquake.
3. Environment Controls for preventing entry of particles and moisture into the electric regulator and electronic parts.

NOTE: Specification characteristics may change without notice, and dimensions, and weights are for preliminary purposes only. Please contact us, or a service distributor for detailed installation.

Thank you

If you have any questions about this document, or need assistance please contact us or visit our website:
www.valenciaenergypower.org

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