



THE DIRECTION TO FACE POWER




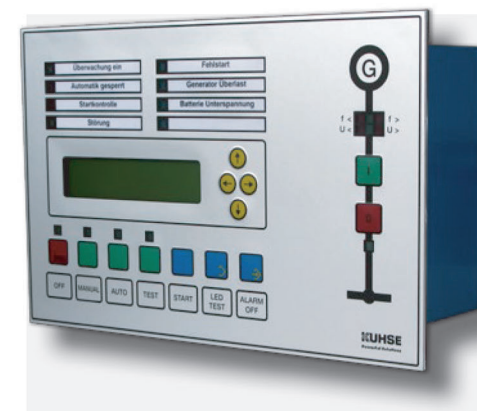
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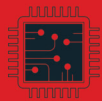


About Us :

EGenSys (Electrical Generation Systems) is an Egyptian Engineering company founded in 2014 and specialized in providing engineering services and products in the field of power generation and control.

The company main

interests generally focus on providing design, manufacturing and supplying the main components of non-renewable, renewable and hybrid power generation solutions.



We integrate innovative technology and knowhow to best serve our clients with our corporate values reliability flexibility and transparency.

EGenSys is also an authorized agent of:

- 1) Centrax for gas turbines in Egypt
- 2) KUHSE GmbH powerful solutions in Egypt, UAE and Africa.
- 3) Reivax Excitation system in Egypt and middle east

GAS TURBINES

CX501-KB53.9MW
CX501-KB75.6MW

GENSET CONTROL

SYNCHRONIZATION, LOAD SHARING,
LOAD SHAVING, STANDALONE
GENERATOR PROTECTIONS
NER

DISTRIBUTION PANELS

LV DISTRIBUTION PANELS
MV SWGR

EGENSYS

MCCS

LV PANELS

POWER FACTOR CORRECTION PANELS
HARMONIC FILTER PANELS

SOLAR ENERGY

ON-GRID SYSTEM
OFF-GRID SYSTEM
HYBRID SOLUTIONS

Products and Services :

Gas Turbines :

EGenSys is the certified agent of Centrax Gas turbines in Egypt.
We provide two packages of Gas turbines:

1. CX501 - KB5
2. CX501 - KB7

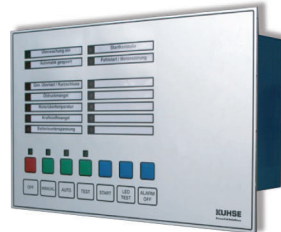
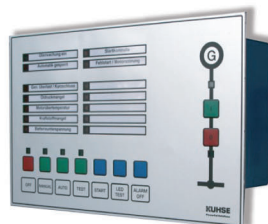
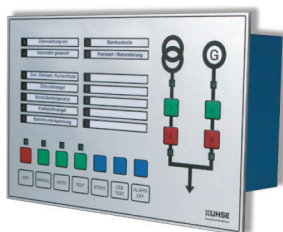
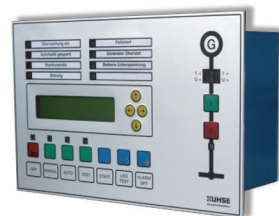
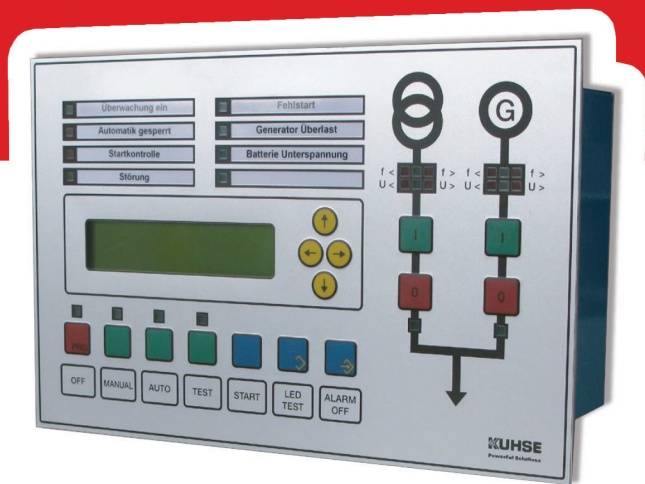
Main Features

- ✓ Power generation in the range of 3.9 to 5.6 MW
- ✓ Aero-derivative Siemens turbine 501-K engine
- ✓ Compact design and high power-to-weight ratio – generator set load of only 40 tonnes means lower foundation costs than for non-aero-derivative gas turbines
- ✓ CHP, flexible and standby power applications
- ✓ Can run on a wide range of fuel gases, including natural and landfill
- ✓ Able to operate in extreme climates, withstanding temperatures from -60°C to +55°C
- ✓ Fully integrated controls, motor control center and batteries – allowing for a fast installation and minimal site area
- ✓ Package fully tested prior to dispatch, reducing the commissioning period and usage of site utilities



	CX501-KB5	CX501-KB7
Power	3,947KW	5,670KW
Heat Rate	12.391KJ/KWh	11.130KJ/KWh
Exhaust Flow	15.8Kg/S	21.3Kg/S
Exhaust Gas Temp	555°C	521°C

Product range control components:

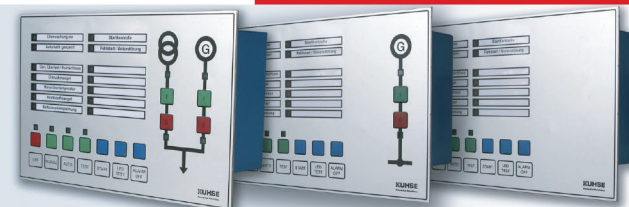


- KEA start-stop control unit
- K-ATS Kuhe Automatic Transfer Switch

Product Lines:

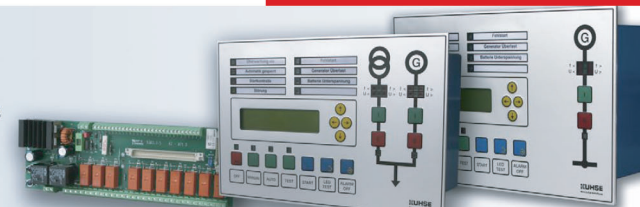
Standard Line:

- Basic model without - display and relay unit
- Use for simple control tasks
- Limited scope of functions



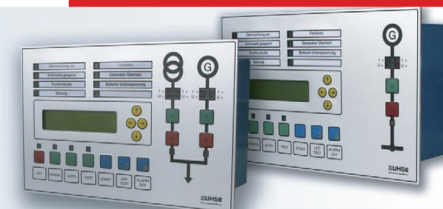
Sophisticated Line:

- Use for complex control tasks
- Comprehensive program functions
- Available with display and relay unit
- Extendable scope of functions



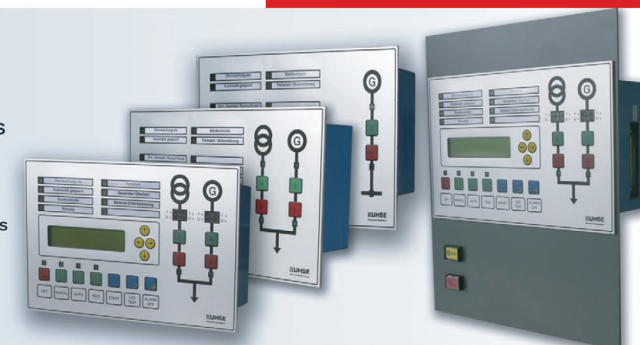
Compact Line:

- Cost efficient product line
- Compact control unit with integrated relay unit
- Combines all functions of Sophisticated Line in one device



Retrofit Line:

- Replacement control unit for modernization of existing plants
- Replaces KEA types KEA ,041 07X, 08X and 1XX
- Replaces SEG control units NC and NP as control unit with 9 fault signals and Gateway access
- All control units are one-to-one interchangeable



REIVAX Compact Solutions:

ENERGY LINE Standard Product

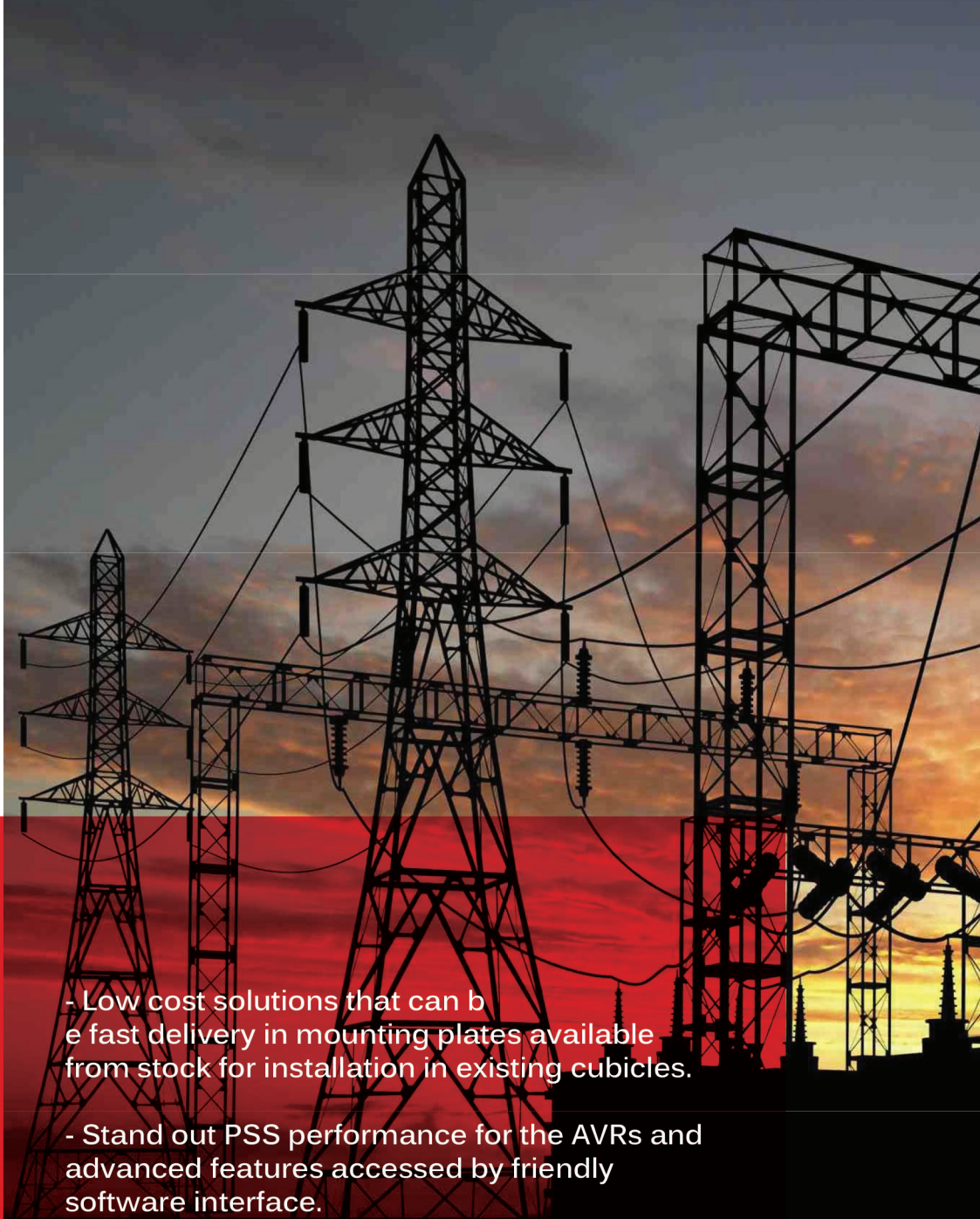
ENERGY LINE standard products are high performance solutions that brings together advanced control features and easy of installation.

It is a unique solution for Excitation System and Speed Governor Digital Control for customers that seek for the best cost-benefit relation, also featuring:



Main Features

- Compact solutions for fast and economical replacing of aging systems with minimum downtime.
- Easily and conveniently integrated by third parts.
- Provides reliable operation for brushless synchronous machines and hydro power turbines.



- Low cost solutions that can be fast delivery in mounting plates available from stock for installation in existing cubicles.
- Stand out PSS performance for the AVRs and advanced features accessed by friendly software interface.
- Online Support for Remote Assistance Sales Engineering available for tailor made solutions.

Distribution Panels:

Low voltage distribution panels resemble vertical switchboards and are composed of vertical panels, usually open on the top, bottom and rear.

They typically contain rows of circuit breakers and other distribution equipment

Typical Features Include:

- Carbon Steel, Stainless Steel, or Aluminum Construction
- Cross bracing, and stiffeners to form a rigid self-supporting structure
- Closely assembled vertical sides to minimize visible seam gap with panel front
- Matched panels, trim, doors and frames to present a neat appearance when assembled



LV Power Factor Correction Panels:

Capacitors can therefore be utilized to reduce kVA and electrical costs.

Improved power factor results in:

1. Reduced kVA charges
2. Improved plant efficiency
3. Additional loads can be added to the system
4. Reduced overloading of cables, transformers, switchgear, etc.
5. Improved starting torque of motors
6. Reduce fuel requirements to generate power due to lower losses.



Motor Control Center (MCC):



A motor control center consists of one or more vertical metal cabinet sections with power bus and provision for plug-in mounting of individual motor controllers. Very large controllers may be bolted in place but smaller controllers can be unplugged from the cabinet for testing or maintenance. Each motor controller contains a contactor or a solidstate motor controller; overload relays to protect the motor, fuses or a circuit breaker to provide short-circuit protection, and a disconnecting switch to isolate the motor circuit.

Medium Voltage SWGR:

With air-insulated switchgear from EGenSys, you are always on the safe side – our switchgear is type-tested for indoor installation according to IEC 200-62271. In this way you profit from our leading position as regards fulfillment of this new standard IEC 200-62271.

With EgenSys SWGRs you have the following benefits:

- Ensures peace of mind
- Saves lives
- Increases productivity
- Saves money
- Preserves the environment





Solar Energy:

Renewable Energy is becoming future energy sources, solar energy plays a very important role in providing many applications in electrical energy which is being generated from the sun.

- EGenSys has different systems from 1KWp up to 500 KWp for on grid system applications and/or Hybrid solutions. EGenSys has developed special software which helps the designers for proper sizing with the expected investment return.
- EGenSys has developed special software for monitoring the solar system parameters like solar irradiance, voltage, current, maximum power point, etc.



Wind Energy:

Wind Energy is growing rapidly not only because of the availability of the wind during day time but also because of the forecast of annual total generated power from the wind.

EGenSys developed different systems from 20KW up to 350KWp Wind turbines coupled with permanent magnet synchronous generators which has the advantage of maintenance free,

reliability and system durability. EGenSys has a hybrid solution combining both solar and Wind Energy with Diesel Generators hence minimizing the fuel consumption and decreasing the maintenance intervals of the diesel generators in addition guaranteeing the continuity of service. addition guaranteeing the continuity of service.