



EU Stage V

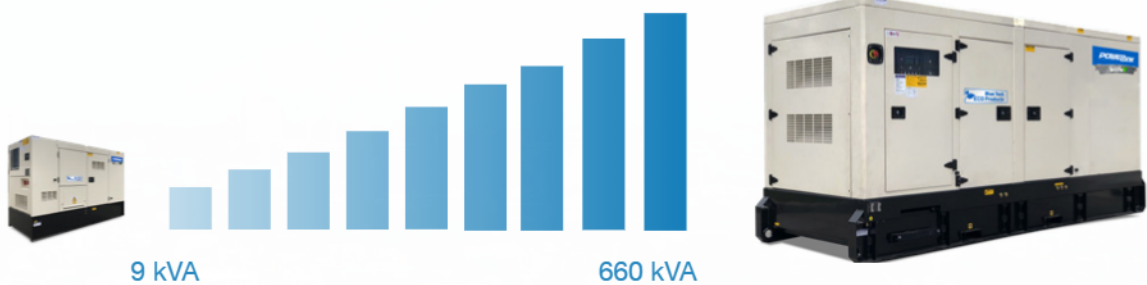


POWERlink
Power Systems

Power Link the World

2022

SUMMARY OF EU STAGE V PRODUCTS



Since 2001, PowerLink has specialised in the manufacture of made to measure energy equipment, and have used our skills and expertise to help our customers meet very specific requirements in the respective markets.

Our Euro Stage V Generator, with a power range of 9 - 660KVA, is a power solution developed for the European rental market with Euro stage V emission standard. By Reducing the emissions to their lowest, our Stage V series of generators are manufactured to help the environment for years to come. We have adopted reliable engine brands like John Deere, Kubota, FPT and Volvo, which all have integrated advanced technologies with field proved solutions to meet Stage V requirements. A single engine control unit (ECU) manages the engine and entire

Integrated Emissions Control system.

EU Stage V-certified generators are designed for fuel efficiency, reduced sound levels and ease of operation with a user-friendly interface. As the predominate power supply for the Construction and emergency power industries, our Stage V generator can be used as the main power source for a telecom station, power station, data centre, construction sites and leisure facilities, in places where a power supply isn't easily accessible.

From the initial return on investment analysis to the provision of energy equipment, we also provide you with customised product design, and subsequent installation, maintenance, training and other services.

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FEATURES OF EU STAGE V

Efficient Operation

Fuel efficiency is aided by the design of the engine combustion chamber with high-ring pistons which helps reduce fuel consumption.

Low-Idle Capability

Reduces fluid consumption and decreases wear during transport or startup and shutdown checks.

Low Life Circle Cost

Reliable operation, low maintenance, long engine life, and exceptional fluid economy lead to low cost of operation.

Long-haul Durability

Heavy-duty, oversized components and wet-type cylinder liners provide long engine life. Selected engines are designed for rugged applications.

Emissions Reduction

Adopted engine exhaust gases in the SCR catalyst to reduce NOx — converting it to nitrogen and water vapor.

Easy Integration

EU Stage V, meeting the emission standards of European diesel generator sets.

Day-to-day Reliability

With robust engines feature top-liner cooling, efficient lubrication, and robust cooling systems for reliable operation.

Extreme Conditions

Units are built to operate in hot and dry, subzero, and humid climates as well as high altitudes. The engine control unit (ECU) monitors and protects engine components in these extreme conditions.



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EU-STAGE
Certified



EU STAGE V ENGINES

To reach these high standards, we have created our range of Stage V Engines.



LOW ACOUSTIC AND CO2 EMISSIONS

All generators manufactured comply with the latest standards for noise and emissions. All gensets in this range are certified for acoustic emissions.



STANDARD OR CUSTOMISED: MAKE YOUR CHOICE

Choosing a customised or standard version is one of the first questions when looking for a genset, and here at PowerLink both are an excellent choice. Our lean manufacturing approach allows us to optimise our standard production or customisation of our products.



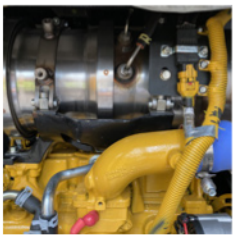
► GENSETS MODELS ENGINE BRANDS

Genset Model	PRP		Engine Brand	Genset Dimensions L*W*H
	kVA	kW		mm
E9KS	9	7.3	Kubota	1942*877*1290
E12KS	9	7	Kubota	1932*830*1309
E14KS	12	9.6	Kubota	2042*1026*1353
E17KS	17	13.2	Kubota	2192*963*1323
E28KS	28	22.1	Kubota	2338*1115*1555
E41KS	41	32.8	Kubota	2508*1081*1709
E53JS	53	43	John Deere	2338*1115*1555
E80JS	82	66	John Deere	2508*1081*1709
E100JS	102	81	John Deere	2080*870*1504.5
E165JS	165	132	John Deere	2280*1111*1730

Genset Model	PRP		Engine Brand	Genset Dimensions L*W*H
	kVA	kW		mm
E200JS	202	162	John Deere	2390*1115*1550
E270JS	273	218	John Deere	2300*1115*1733.4
E300JS	304	243	John Deere	3970*1362*2102
E500JS	500	400	John Deere	4592*1535*2555
E41FS	41	33	FPT	2080*1111*1730
E50FS	50	40	FPT	2280*1111*1730
E60FS	60	48	FPT	2300*1115*1733.4
E88FS	88	71	FPT	3160*1172*1975
E105FS	105	84	FPT	3160*1172*1762
E156FS	156	125	FPT	3646*1300*1980
E205FS	250	164	FPT	3970*1362*2102
E271FS	271	217	FPT	4250*1600*2470
E303FS	303	242	FPT	4260*1604*2470
E365FS	364	291	FPT	4261*1610*2473
E420FS	419	335	FPT	4262*1613*2476
E670VS	670	536	Volvo	4692*1763*2516



STANDARD CONFIGURATION OF EU STAGE V



Diesel oxidant catalys (DOC)

CO and HC are converted into CO₂ and H₂O by oxidation reaction. So the emission of CO and HC is greatly reduced.



Exhaust gas re-circulation (EGR)

Reduce the maximum combustion temperature of mixture in cylinder. So reduce NO_x emission.



Selective catalytic reduction (SCR)

DEF is injected into engine exhaust to convert NO_x to N₂ and H₂O. So the emission of NO_x is greatly reduced.



Engine control unit (ECU)

Fuel system is controlled by ECU. The engine can accurately control the injection fuel pressure and quantity according to different working conditions.



High pressure common rail

High pressure fuel is stored in the rail to restrain pressure fluctuation and enhance fuel atomization ability.



Main circuit breaker

High quality ABB main circuit breaker, which provides breaking quickly in a safe and reliable fashion.



PLC7420 controller

It includes various protection functions and circuit breaker control functions, which can monitor the mains in real time and start the genset automatically when the mains is abnormal.



Fuel three way valve

Transfer the engine fuel supply system freely between the internal tank and external tank.



High temperature protective sleeve

Isolate high temperature parts to prevent accidental scalding.



Oil drain pump

Drain oil from the engine pan manually, easy to operate.



Battery and negative switch

Maintenance free lead-acid battery has strong starting ability and long service life. The negative switch breaks quickly, safe and reliable.



High density sound absorption cotton

The sound absorption performance is strong, reduces the running noise, does not affect the surrounding living environment.



Sealing and waterproof door

Quality rubber sealing rings to prevent water penetration. The canopy and doors made of galvanized sheet, corrosion-resistant and seamless without water seepage.



Rainproof and dustproof air inlet

The air intake is sufficient and can prevent the infiltration of rain, dust or sand.



Base frame with large fuel tank

Bunded by base frame which provides a leak proof fuel tank design within a fully enclosed base frame. The tank capacity can meet the requirement of 24hrs continuous running.



Stainless steel box lock

Reliable performance, corrosion resistance, long service life.



ENGINE RANGE OVERVIEW

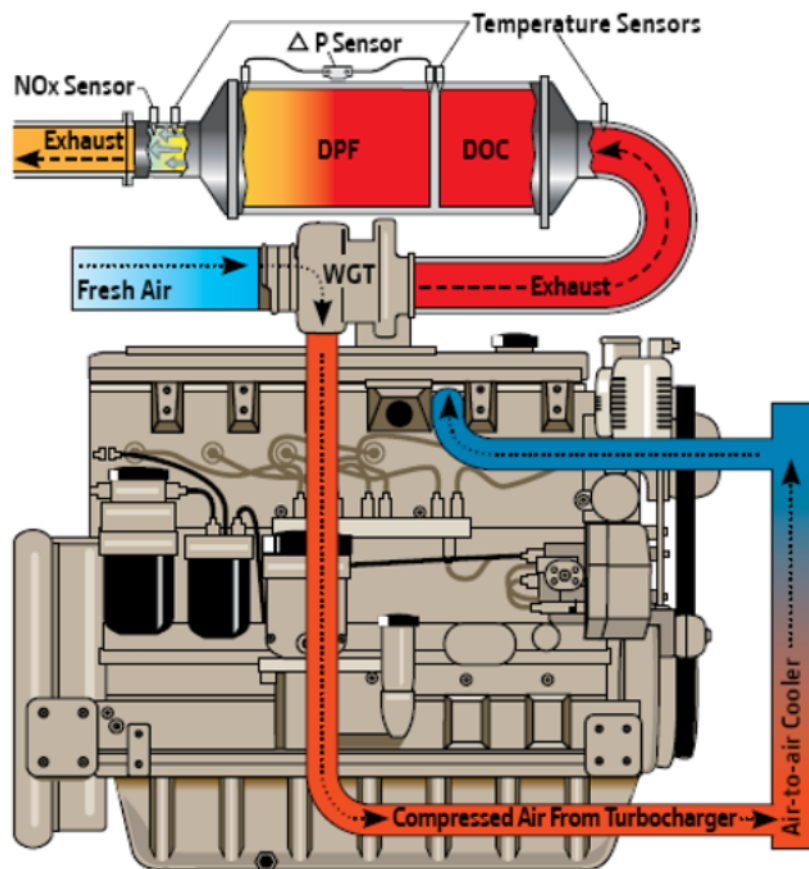
Technology:

- 2-valve cylinder heads
- High-pressure common rail fuel system
- Full-authority electronic controls
- Wastegate turbocharger: maintain transient response and peak torque in all operating conditions.
- DOC/DPF exhaust filters
- Single fluid engine

30 KVA
Prime

40 KVA
Prime

55 KVA
Prime



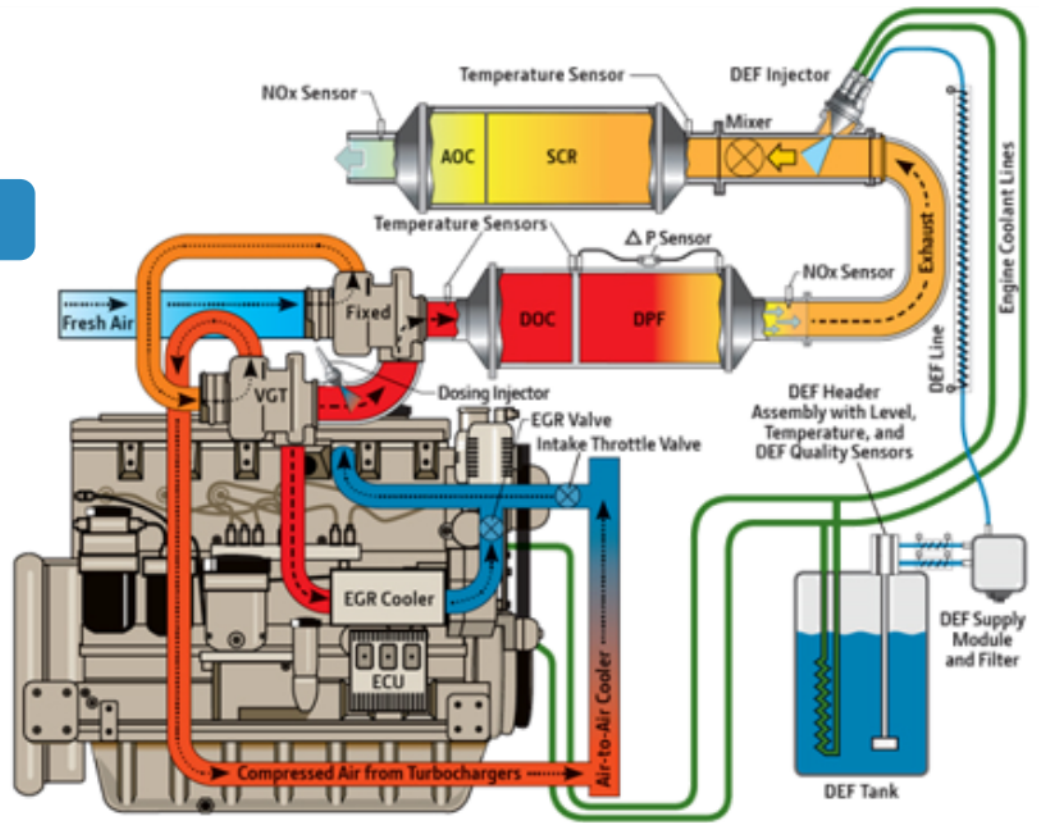
PowerTech EWX 2.9L

Power nodes: 30, 40 & 55 KVA prime

PowerTech PSS 6.8L

Power nodes: 200 KVA prime

200 KVA
Prime



Technology:

- 4-valve cylinder heads
- High-pressure common rail fuel system
- Full-authority electronic controls
- Series turbochargers for improved transient response, low-speed torque & altitude capability
- DOC/DPF exhaust filters
- Optimised SCR system

OPTIONAL CONFIGURATION OF EU STAGE V



Remote controller

PLC890 controller has three remote control functions of telemetry, remote signaling and remote control, which can be used for remote maintenance and fault diagnosis. Support online and offline service systems are provided for customer, or alternatively use the mobile app program control available.



Parallel / grid connected controller

PLC500 controller is used for paralleling multiple gensets, and the control system automatically distributes the output according to the total load power. It can also control a single genset connected to the grid.



Socket Panels

Provide convenient and rapid power output. Each output has independent circuit breaker and leakage protector. American Standard or European standard socket can be selected.



Permanent magnet generator (PMG)

PMG can provide stable and reliable power supply for AVR with timely response. It can provide 300% rated current in case of short circuit and maintain for 5-10 seconds.



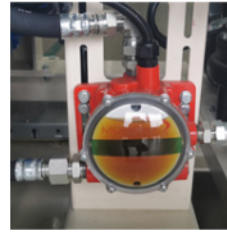
Three times insulation dip painting of generator winding

It is suitable for high humidity and salt spray corrosion environment with high insulation and reliability.



Jacket water preheater

The engine can start up quickly under low temperature environment to ensure normal operation of the genset.



Automatic oil filling system

Equipped with daily oil tank and oil level switch, it can automatically fill the oil for the engine, ensure long-term continuous operation, and do not need to stop the engine to replenish oil.



Heavy duty air filter

Double filter elements are adopted to enhance air purification ability and remove dust, particles and other solid impurities.



Galvanised base frame

High strength base frame with hot galvanizing process is adopted to enhance corrosion resistance and is suitable for salt spray corrosive atmosphere.



Anti salt spray radiator

The radiator core is made of special material and technology, which has strong corrosion resistance and ensures no leakage of coolant. It is suitable for salt spray corrosive atmosphere such as port or seaside.

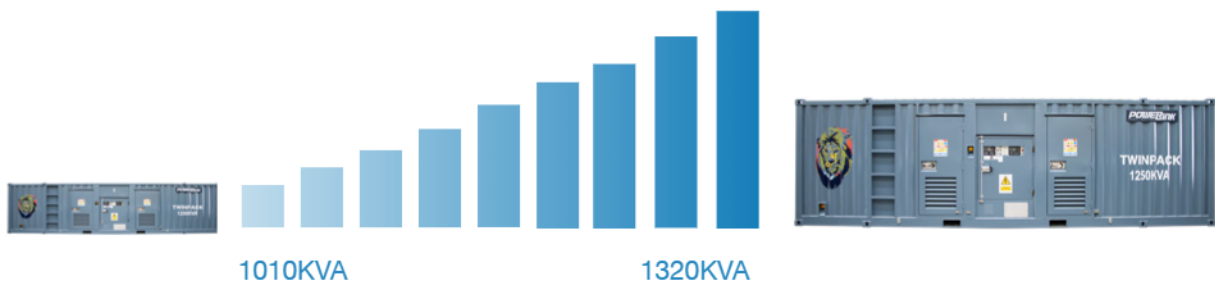


TWINPACK INTRODUCTION



The TWIN PACK series is specially designed for CONTAINER customisation. It can be packed with Double-twins and Tri-twins from 1010KVA - 1320KVA, based on your project's needs. Suitable both for the emergency power supply and for primary energy source in continuous service, it can be used in many different sectors, such as construction sites, industry, temporary installations for exhibitions, events and entertainment in general, or even during any emergency situations powering field

hospitals, civil protection actions, and so on. All generating sets are developed complying with the strict European current directives and regulations, particularly focusing on the lowest noise and exhaust emissions. All generators in this range are designed for the acoustic emissions and high performance. To reach these high emission standards, the TWIN PACK range is equipped with Euro Stage V engines, which can reduce the pollutant emissions in the atmosphere.





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SALES AND SERVICE SUPPORT

▶ We successfully delivered 125,000 units to worldwide users in 98 countries.

PowerLink provides customers with sufficient, fast and high quality product supply and service.

THINK GLOBALLY, ACT LOCALLY ALWAYS AT YOUR SIDE

Every product in every region has a professional team to serve our distributors. With the help of the global distributor network, PowerLink can provide energy services for users all over the world.



► TECHNICAL SUPPORT AND HIGH-QUALITY CONTINUOUS AFTER SALES SERVICE

We are confident enough to get the job done and capable enough to move quickly

At PowerLink, the success of the customer is of high importance. We aim to deliver service solutions and utilise our full expertise to help you reach your goals.

PowerLink, ensures optimum performance and longevity for every generating set through its after-sales service department.

A first class support system is provided by our experienced and highly-qualified technical team, along with a wide array of spare parts, which are available in stock.

**OUR SERVICE -
AS A PART OF
YOUR BUSINESS**

WE OFFER AFTER-SALES ASSISTANCE AND A COMPLETE RANGE OF GENUINE SPARE-PARTS AROUND THE WORLD





Blue Tech
ECO Products

POWERink
Power Systems

EU-STAGE
Certified **V**





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