

Standard Basic Module -Open Type

- Highly efficient gas engine
- AC synchronous alternator
- Gas safety train
- Cooling system suitable for ambient temperature up to 50°C
- Advanced engine control system, including: ignition system, detonation control system ,speed control system , air/fuel ratio control system and cylinder temp. protection system
- Strict shop test for all gensets
- Industrial silencer reduces the noise by 12-20dB(A)
- Integrated the control & switch cabinet
- Multi-functional control system with easy operation
- Data communication interfaces integrated into control system
- Monitoring battery voltage and charging from mains
- Bus interface for connecting to higher level control unit



Structure and control cabinet		
Structure Type	Open	
Spraying Process	High quality powder coating	
Electrical control cabinet	Integrated, IP54	
Noise level@1m, dB(A)	100.2	
@7m, dB(A)	91.7	
@10m, dB(A)	87.6	

Dimension and weight	
Dimension (LxWxH) , mm	3745×1300×2050
Weight, kg	4000

Special statement:

- The technical data are based on natural gas with a lower calorific value of 34.2MJ/Nm³. The technical data indicated is based on standard conditions according toISO8528/1, ISO3046/1 and BS5514/1.
- The technical data is measured in standard conditions:
 Absolute atmospheric pressure: 100kPa
 Ambient temperature: 25°C
 Relative air humidity: 30%
- Rating adaptation at ambient conditions acc to DIN ISO 3046/1.
 The tolerance for the specific fuel consumption is + 5 % at rated output.
- 4. Technical data above are just for standard product ,and may be subject to change. As this document is used only for presale reference, take the specification supplied by PowerLink before ordering as final.

Electric data @50Hz				
Voltage-V	Power-kW	Efficiency-%	Current-A	
380	250	36.2	475	
400	250	36.2	451	
415	250	36.2	435	
440	250	36.2	410	

Fuel and emission		
Fuel type	Natural gas	
Methane number	MN >80	
Excess air factor (Lambda)	1.4	
Fuel consumption @100% load, m³/h	73	
Supply gas pressure range (gage pressure), kPa	10~20	
Emission without catalytic converter		
NOx , mg/Nm ³	<500mg/Nm³	
CO , mg/Nm ³	<650mg/Nm³	
HCHO (formaldehyde) , mg/Nm³	<60mg/Nm³	
NMHC , mg/Nm³	<150mg/Nm³	
Emission with catalytic converter(optional)		
NOx , mg/Nm ³	≤250 mg/Nm³	



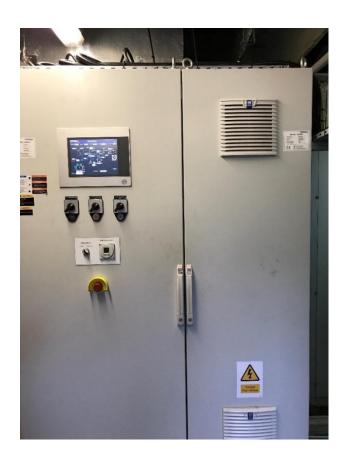
Standard Basic Module + Acoustic Attenuated Canopy (Optional)



Dimension and Noise Level		
Canopy Size	4230*1560*2200mm	
Noise Level@ 1m , dB(A)	78.3	
@ 7m , dB(A)	71.8	
@ 10m , dB(A)	67.7	

- ☐ Modular designed and manufactured for plug and play Environmental friendly low emission
- ☐ Small indoor space required for installation☐ Low noise does not affect the surrounding environment







Standard Basic Module + Acoustic Attenuated Container (Optional)



Dimension and Noise Level			
		7000*2300*2500	
Ontional container (mm)		6058*2438*2591	
Optional container (mm) (customized container modeling serviceavailable)		12192*2438*2896	
		12192*3000*2896	
		13500*3000*2896	
		15000*3200*3000	
Noise Level@ 1m, dB(A)	76		
@ 7m, dB(A)	69		
@ 10m, dB(A)	65		

- Outdoor application enabled, weatherproof and dustproof, corrosion preventive Environmental friendly low emission
- ☐ Modular designed and manufactured for plug and play Low noise does not affect the surrounding environment









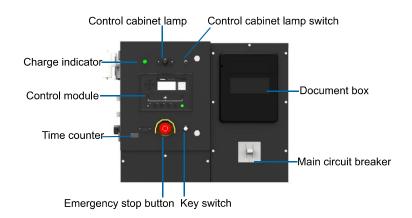
Genset performance data and manufacturing technology					
Genset model	GXE250-NG	Telephone interference factor(TIF)	≤50		
Frequency(Hz)	50	Telephone harmonious factor(THF)	≤2% , as per BS4999		
Electrical output power (kW)	250	Manufacturing technology Special welded base frame, inner vibration isolators a design for whole lifting With high quality paint, endurable brightness as we resistance against abrasion and defacing			
Genset electrical efficiency	36.2%				
Overload runtime at 1.1xSe(hour)	1				
Steady-state voltage deviation	≤±1%				
Transient-state voltage deviation	-15%~20%				
Voltage recovery time(s)	≤4				
Voltage unbalancedegree	1%	Installation manual, operation and maintenance macircuit diagram			
Steady-state frequency regulation	±0.5%				
Transient -state frequency regulation	±5%	 Standards and certificate ISO3046 , ISO8528 , GB2820 BS5000PT99 , AS1359 , IEC34 			
Frequency recovery time(s)	≤3				
Steady-state frequency band	0.5%	ISO9001:2008 quality system certification			
Recovery time response(s)	0.5				

Gas engine		AC alternator		
Brand	PowerLink	Brand	PowerLink	
Model	GX13K-LE01G	Model	PL4LS	
NO. of cylinders	6	Rated output power @400V (kW)	280	
Cylinders arrangement	In line	Power factor	0.8	
Bore x Stroke (mm)	129x165	Rated current @400V (A)	505	
Displacement (L)	14.6	Excitation system	PMG	
Cooling system	Water cooled	THF (BS EN60034- 1)	<2%	
Rated speed (rpm)	1500	TIF (NEMA MG 1-22)	<50	
Rated output power (kW)	265	Winding material	100% copper	
Excess air factor	1.40	Wiring connection	Star	
Intake system	Turbocharged, intercooled	Rotor insulation class	Н	
Lube oil consumption (kg/h)	0.062	Winding pitch	2/3	
Combustion type	Lean burn	A.V.R. model	MX341	
Battery voltage	24V	Voltage fluctuation(no load to full load)	± 0.5%	
Coolant type Glycol mixture		Housing protection	IP23	
Gas consumption(m³/h)@ 100%load	73	Excitation method	Brushless	
75%load	54	Rated ambient temperature(°C)	40	
50%load	38	Rated stator temperature rise(°C)	125	



GCC742 control system

The advanced control system is adopted with all necessary functions to protect and controlthe gasgenset.



Features

- Auto start and auto mains failure(AMF)
- Voltage and PF control
- Engine monitor: speed, oil pressure, coolant temperature, battery voltage, running time and so forth
- Alternator data: U, I, Hz, kW, kVA, kVAr, PF, kWh, kVAh
- Grid data: voltage, frequency

- RS232, RS485, and Ethernet available at the same time
- Remote control with internet and GPRS
- Data logging & trending and PLC functionality
- Manual, auto and remote control mode optional
- CAN and modbus communication

Advantages

- Accordant with consumer requirement
- Complete control solution
- Convenient remote monitor and service

- Simplified engine start/stop control
- Enhanced stability and safety

Standard protection functions	Standard control functions	
Alternator protection	Powercontrol	Voltage control
OverloadOvercurrentOvervoltage	- RPM control	- Voltage control(island)
UndervoltageOver/underfrequencyUnbalanced current	Valve control - Cooling system	Pump control - Cooling system
Busbar/mains protection	Fan control	Lubrication control
- voltage - Frequency	- Ventilation for engine room	Auto refilling Warning and monitoring
	Engine protection	
	 Various routine and customized protectionfunctions Monitoring 	





Standard configuration

Engine	Alternator	Canopy	and base	Electrical cabinet
Gas engine Ignition system Lambda controller Speed control system Electrical start motor Battery system Detonation control system Cylinder temp. protection system Lockable isolator switch Turbocharger & intercooler	AC alternator H class insulation IP23 protection AVR voltage regulator PMG	Steel monocoque base frame Engine bracket Vibration isolators Alternator base		GCCcontrol system LCD screen Main circuit breaker Electrical switch cabinet Communication interfaces Mains float charger
Gas supply system	Lubrication system	Standar	d voltage	Induction/ exhaust system
Gas safety train Air/fuel mixer Throttle valve	Oil filter Daily auxiliary oil tank New and used oil tank (Only applicable to container, two inch with the daily oil tank)	380/220V 400/230V 415/240V 440/254V		Air filter Exhaust silencer Exhaust bellows Gas leakage protection(Only applicable to canopy and container)
Cooling system	Service and documents			
Intercoolerradiator Circulation coolant pump	Tools package Installation and operation Maintenance manual Software manual Parts manual			manual ide

Optional configuration

Engine	Alternator	Lubrication system
Jacket water radiator Jacket water heater	Space heater Treatments against humidity and corrosion	
Electrical system	Gas supply system	Service and documents
RCD ATS control cabinet Thermal power gauge Electric power gauge	Gas flow gauge	Service tools Maintenance and service parts
Voltage	Exhaust system	Exhaust gas using
220V 230V 240V	Three-way catalytic converter	Exhaust gas evaporator LiBr refrigerator



Data is subject to change without prior notice as new products are always developed.

Please contact PowerLink or local agent with any doubts or for

more information