

Standard Basic Module - Open Type

- Highly efficientgas 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 chargingfrom 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)	91		
@7m, dB(A)	87		
@10m, dB(A)	84.7		

Dimension and weight		
Dimension (LxWxH) , mm	3000×1100×1600	
Weight, kg	1850	

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.
- 2、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

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	Voltage-V	Power-kW	Efficiency-%	Current-A
	380	100	35.5	190
	400	100	35.5	180
	415	100	35.5	174
	440	100	35.5	164

Fuel and emission

Fuel type	Natural gas	
Methane number	MN >80	
Excess air factor (Lambda)	1.2	
Fuel consumption @100% load, m ³ /h	30	
Supply gas pressure range (gage pressure), kPa		
Emission without catalytic converter		
NOx , mg/Nm ³	<500mg/Nm ³	
CO , mg/Nm ³	<650mg/Nm ³	
HCHO (formaldehyde) , mg/Nm ³	<60mg/Nm ³	
NMHC , mg/Nm ³	<150mg/Nm ³	
Emission with catalytic converter (optional)		
NOx , mg/Nm ³	≤250 mg/Nm³	



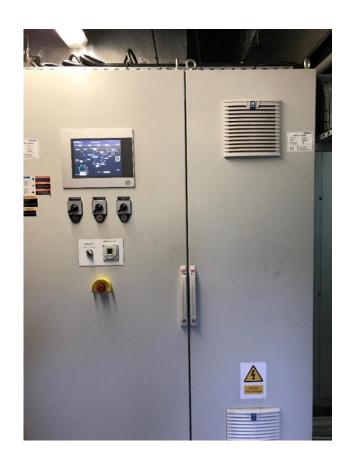
Standard Basic Module + Acoustic Attenuated Canopy (Optional)



Dimension and Noise Level			
Canopy Size	3140*1350*1800mm		
Noise Level@ 1m , dB(A)	78.21		
@ 7m , dB(A)	67.9		
@ 10m , dB(A) 63.5			

- □ 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





GXE100-NG Natural gasGenset



Standard Basic Module + Acoustic Attenuated Container (Optional)



Dimension and Noise Level 7000*2300*2500 6058*2438*2591 Optional container (mm) 12192*2438*2896 (customized container 12192*3000*2896 modeling serviceavailable) 13500*3000*2896 15000*3200*3000 Noise Level@ 1m , dB(A) 76 65 @ 7m , dB(A) @ 10m , dB(A) 61

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







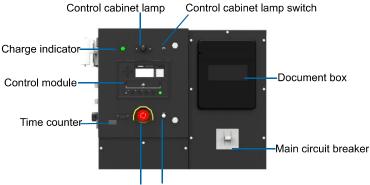
Genset performance data	GXE100-NG	Telephone interference factor(TIF) ≤50
Frequency(Hz)	50	Telephone harmonious factor(THF) ≤2% , as per BS4999
Electrical output power (kW)	100	
Genset electrical efficiency	35.5%	
Overload runtime at 1.1xSe(hour)	1	Manufacturing technology
Steady-state voltage deviation	≤±1%	 Special welded base frame, inner vibration isolators and design for whole lifting
Transient-state voltage deviation	-15%~20%	 With high quality paint, endurable brightness as well
Voltage recovery time(s)	≤4	resistance against abrasion and defacing
Voltage unbalancedegree	1%	 Installation manual, operation and maintenance manua circuit diagram
Steady-state frequency regulation	±0.5%	
Transient -state frequency regulation	±5%	Standards and certificate
Frequency recovery time(s)	≤3	 ISO3046 , ISO8528 , GB2820 BS5000PT99 , AS1359 , IEC34
Steady-state frequency band	0.5%	 ISO9001:2008 quality system certification
Recovery time response(s)	0.5	

Gas engine		AC alternator		
Brand	nd PowerLink Brand PowerLi		PowerLink	
Model	GX7S-LE01G	Model	PL3DS	
NO. of cylinders	6	Rated output power @400V (kW)	112	
Cylinders arrangement	In line	Power factor	0.8	
Bore x Stroke (mm)	105x124	Rated current @400V (A)	202	
Displacement (L)	6.5	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)	120	Winding material	100% copper	
Excess air factor	1.20	Wiring connection	Star	
Intake system	Turbocharged, intercooled	Rotor insulation class	Н	
Lube oil consumption (kg/h)	0.036	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(m ³ /h)@ 100%load	30	Excitation method	Brushless	
75%load	22	Rated ambient temperature(°C)	40	
50%load	15	Rated stator temperature rise(°C)	125	



GCC742 control system

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



Emergency stop button Key switch

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/underfrequency	Valve control	Pump control	
- Unbalanced current	- Cooling system	- 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	Standard 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			
Circulation coolant pump Intercoolerradiator	Tools package Installation and operation Maintenance manual Software manual Parts manual	n manual Ga Co Aft	ngine operation as quality spector ontrol system i ter service gui andard packag	manual ide

Optional configuration

Engine	Alternator	Lubrication system	
Jacket water heater	Space heater Treatments against humidity and corrosion	Auto refilling oil system	
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 Please contact PowerLink or local agent with any doubts or for more information.