GXE200-NG

Natural gasGenset

We Produce Green Energy...

Standard Basic Module -Open Type

- Highly efficient gas engine
- AC synchronous alternator
- Gas safety train
- Cooling system suitable for ambient temperature up to 50℃
- 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
@7m, dB(A)	91.1
@10m, dB(A)	86.9

Dimension and weight

Dimension（LxWxH）, mm	3345×1180×1718
Weight, kg	2710

Special statement：

1、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%

3、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	200	37.2	380
400	200	37.2	361
415	200	37.2	348
440	200	37.2	328

Fuel and emission

Fuel type	Natural gas
Methane number	MN >80
Excess air factor（Lambda）	1.4
Fuel consumption @100% load, m³/h	59
Supply gas pressure range (gage pressure), kPa	10~20
Emission without catalytic converter	
NOx，mg/Nm³	<500mg/Nm³
CO，mg/Nm³	<650mg/Nm³
HCHO（formaldehyde），mg/Nm³	<60mg/Nm³
NMHC，mg/Nm³	<150mg/Nm³
Emission with catalytic converter(optional)	
NOx，mg/Nm³	≤250 mg/Nm³

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POWERINK Power Systems

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Standard Basic Module + Acoustic Attenuated Canopy (Optional)

Dimension and Noise Level	
Canopy Size	3500*1450*2050mm
Noise Level@ 1m，dB(A)	80.2
@ 7m，dB(A)	72.9
@ 10m，dB(A)	68.9

☐ 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

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Standard Basic Module + Acoustic Attenuated Container (Optional)

Dimension and Noise Level

Optional container（mm）（customized container modeling serviceavailable）	☐ 7000*2300*2500 ☐ 6058*2438*2591 ☐ 12192*2438*2896 ☐ 12192*3000*2896 ☐ 13500*3000*2896 ☐ 15000*3200*3000
Noise Level@ 1m，dB(A)	78
@ 7m，dB(A)	70
@ 10m，dB(A)	66

☐ 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

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Genset performance data and manufacturing technology

Genset model	GXE200-NG	Telephone interference factor(TIF)	≤50
Frequency(Hz)	50	Telephone harmonious factor(THF)	≤2% ，as per BS4999
Electrical output power (kW)	200		
Genset electrical efficiency	35.7%		
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%		
Steady-state frequency regulation	±0.5%		
Transient -state frequency regulation	±5%		
Frequency recovery time(s)	≤3		
Steady-state frequency band	0.5%		
Recovery time response(s)	0.5		

Manufacturing technology

- Special welded base frame, inner vibration isolators and design for whole lifting
- With high quality paint, endurable brightness as well resistance against abrasion and defacing
- Installation manual, operation and maintenance manual circuit diagram

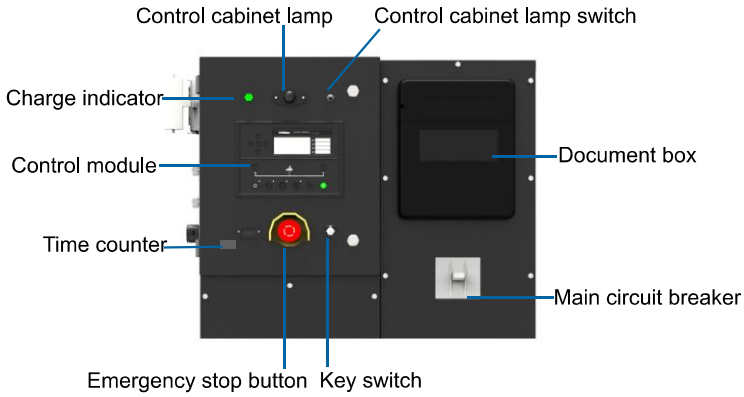
Standards and certificate

- ISO3046，ISO8528，GB2820
- BS5000PT99，AS1359，IEC34
- ISO9001:2008 quality system certification

Gas engine		AC alternator	
Brand	PowerLink	Brand	PowerLink
Model	GX12T-LE01G	Model	PL4MS
NO. of cylinders	6	Rated output power @400V (kW)	235.2
Cylinders arrangement	In line	Power factor	0.8
Bore x Stroke (mm)	126x155	Rated current @400V (A)	424
Displacement (L)	12.0	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)	230	Winding material	100% copper
Excess air factor	1.40	Wiring connection	Star
Intake system	Turbocharged, intercooled	Rotor insulation class	H
Lube oil consumption（kg/h)	0.060	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	59	Excitation method	Brushless
75%load	44	Rated ambient temperature(℃)	40
50%load	31	Rated stator temperature rise(℃)	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 - Overload - Overcurrent - Overvoltage - Undervoltage - Over/underfrequency - Unbalanced current	**Powercontrol** - RPM control	**Voltage control** - Voltage control(island)
	Valve control - Cooling system	**Pump control** - Cooling system
Busbar/mains protection - voltage - Frequency	**Fan control** - Ventilation for engine room	**Lubrication control** - Auto refilling - Warning and monitoring
	Engine protection - Various routine and customized protectionfunctions - Monitoring	

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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 manual Maintenance manual Software manual Parts manual	Engine operation and maintenance manual Gas quality specification Control system manual After service guide Standard package	

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

Web: www.powerlinkworld.com

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.