GXE350-6LPG

LPG Genset

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, speed control system, air/fuel ratio control system
- Strict shop test for all gensets
- Industrial silencer reduces the noise by12-20dB(A)
- Integrated the control& switch cabinet
- Data communication interfaces integrated into control system
- 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)	101
@7m, dB(A)	89.7
@10m, dB(A)	83.8

Dimension and weight

Dimension（LxWxH）, mm	5200×2000×2100
Weight, kg	6400

Electric data @50Hz

Voltage-V	Power-kW	Efficiency-%	Current-A
416	350	38.1%	607
440	350	38.1%	574
480	350	38.1%	526

Fuel and emission

Fuel type	Liquefied petroleum gas
Fuel composition	
Propane, % by volume	≥85
Propene, % by volume	≤5
C4 and higher, % by volume	≤2.5
Fuel consumption @100% load, m³/h	39.3
Supply gas pressure range (gage pressure), kPa	10~20
Emission without catalytic converter	
NO，ppm	<310
CO，ppm	<400
CO_2，ppm	<88000

Special statement:

1、The technical data are based on LPG with a calorific value of 84.2 MJ/Nm³..The technical data indicated is based on standard conditions according to ISO8528/1, 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.

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Standard Basic Module + Acoustic Attenuated Canopy (Optional)

Dimension and Noise Level

Dimension（LxWxH），mm	5400x2050x2500
Weight, kg	7500
Noise Level@ 1m，dB(A)	86.9
@ 7m，dB(A)	75.2
@ 10m，dB(A)	70.2

- ☐ 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
Noise Level@ 1m，dB(A)	84
@ 7m，dB(A)	73
@ 10m，dB(A)	68

☐ 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	GXE350-6LPG	Telephone interference factor(TIF)	≤50
Frequency(Hz)	60	Telephone harmonious factor(THF)	≤2%，as per BS4999
Electrical output power (kW)	350	**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	
Genset electrical efficiency	38.1%		
Overload runtime at 1.1xSe(hour)	1		
Steady-state voltage deviation	≤±1%		
Transient-state voltage deviation	-15%~20%		
Voltage recovery time(s)	≤4		
Voltage unbalance	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		

Gas engine		AC alternator	
Brand	PowerLink	Brand	PowerLink
Model	GX20T-LE02C	Model	PL5S
NO. of cylinders	6	Rated output power @480V (kW)	475
Cylinders arrangement	In-line	Power factor	0.8
Bore x Stroke (mm)	152x180	Rated current @480V (A)	714
Displacement (L)	19.6	Excitation system	PMG
Cooling system	Water cooled	THF (BS EN60034- 1)	<2%
Rated speed (rpm)	1800	TIF (NEMA MG 1-22)	<50
Rated output power (kW)	400	Winding material	100% copper
Excess air factor	1.4	Wiring connection	Star
Intake system	Turbocharged, intercooled	Rotor insulation class	H
Lube oil consumption（kg/h)	0.105	Winding pitch	2/3
Combustion type	Lean burn	A.V.R. model	MX341
Battery voltage	24V	Voltage fluctuation(no load to full load)	± 1.0%
Coolant type	Glycol mixture	Housing protection	IP23
Gas consumption(m^3/h)@ 100%load	39.3	Excitation method	Brushless
75%load	29.5	Rated ambient temperature(℃)	40
50%load	19.7	Rated stator temperature rise(℃)	125

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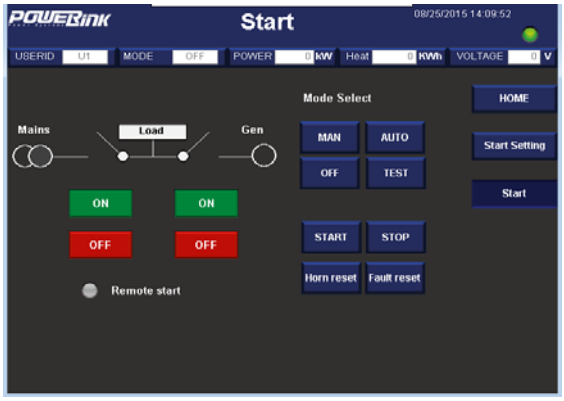
PCC-300 control system

Programmable control system is adopted with touch screen display , and various functions, including: engine protection and control, CHP parallel and grid connection, and CHP control functions,as wellas communication functions，etc.



Main functions

- Engine monitor：coolant, lubrication, exhaust, battery
- Supply gas circuit monitor：pressure,temperature and CH4 content
- Auto paralleling and load share
- Voltage and PF control
- Alternator data：U, I, Hz, kW, kVA, kVAr, PF, kWh, kVAh
- Griddata：U, I, Hz, kW, kVAr, PF
- Modbus communicationprotocol based on RS232 and RS485 interfaces
- SMS message
- Internet connection and USB 2.0 interface
- 10-inch touch screen
- Internet monitor, auto orientation and cloud communication
- 1000 history events log

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 - 2xReverse power - 2xOverload - 4xOvercurrent - 1xOvervoltage - 1xUndervoltage - 1xOver/underfrequency 1xUnbalanced current	**Powercontrol** - RPM control(synchronization) - Power control(grid connection) - Load share(island)	**Voltage control** - Voltage tracking (synchronization) - Voltage control(island) - PF control(grid connection) - Reactive power share (island）
	Lubrication control - Auto refilling - Warning and monitoring	**Pump control** - Cooling system - Emergency radiator
Busbar/ Gridprotection - 1xOvervoltage - 1xUndervoltage - 1xOver/under frequency - 1xPhase sequence - 1xROCOF alarm	**Fan control** - Ventilation for engine room - Radiator fan - Emergency radiator fan	**Valve control** - Cooling system - Heating system - Emergency radiator
	Engine protection - Various routine and customized protection functions - 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	PCC300 control 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 Flame arrester	Oil filter Daily auxiliary oil tank New and used oil tank (Only applicable to container , two inch with the daily oil tank)	416/240V 440/254V 480/277V	Air filter Exhaust silencer Exhaust bellows Gas leakage protection(Only applicable to canopy and container)
Cooling system	**Service and documents**		
Jacket water radiator Intercooler radiator Circulation coolant pump	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 Emergency pressure relief torch Refrigerated gas drier Water separator Gas compressor Gas purification device	Service tools Maintenance and service parts
Voltage	**Exhaust system**	**Exhaust gas using**
240V 254V 277V	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