



Guangdong Westinpower Co., Ltd

LY1600-T

Gas Generator Set Data Sheet

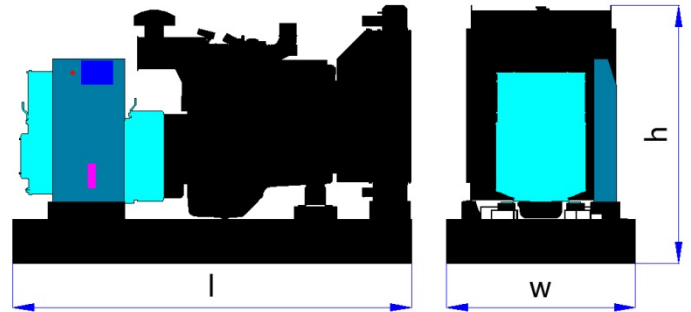


LY Series GAS Generator Set

Type: LY1600-T

Main Data

Rated Power: 1875kVA/1500kW
 Speed/Frequency: 1500 rpm /50Hz
 Voltage classes: 10.5KV
 Power factor: 0.8
 Rated current: 103A
 Starting mode: 24V/DC electrical starting
 Power generation efficiency: 41.0%
 Thermal efficiency: 45.1%
 Total efficiency: 81%
 Ventilation: about 29726 kg/h
 Heat of high temperature coolant: 924KW
 ($\pm 8\%$)
 Heat of cryogenic coolant: 123KW ($\pm 8\%$)
 Exhaust gas cooling to 120°C Heat: 805KW
 Radiant heat of engine: 52KW
 Radiant heat of generator: 50KW



Weight and Dimensions

	Dimensions l×w×h(mm)	Weight (Kg)
Open Type:	6820*1700*2615	15000
Silent Type:		

Operating environment

Environment temperature	$\leq 40^{\circ}\text{C}$
Altitude	$\leq 1000\text{m}$
Relative humidity	$\leq 90\%$

Note: When the environment temperature is higher than 40°C or the altitude is more than 1000 meters, power will fall, need to correct.

Introduction

- Fuel requirements: Technical data is based on a calorific fuel value of 10 kWh/Nm³ for natural gas;
- Manufacturing standards: ISO8528-5、GB/T2820.5-2009、GB/T22343-2008;
- Every gas gensets have been pass the test under the load of 0%、25%、50%、75%、100% and the response ability of static, dynamic test, all the protection device and control system are pass strict inspection before they leave factory.

LIYU Gas Engine

Type: LY1600

Main Data

Manufacturer: LIYU
Aspiration: Turbocharging and intercooling
Cooling method: water cooling
Cylinder Arrangement: 16/V
Displacement: 70.8dm³
Bore: 170mm
Stroke: 195mm
Rated RPM @50Hz: 1500rpm

Cooling system

Engine coolant capacity: 111dm³
Coolant capacity of intercooler: 28 dm³
High temperature water inlet/outlet:
76/89°C
Low temperature water inlet/outlet:
46/49°C
Maximum/minimum flow of high
temperature coolant: 40/56 m³/h
Engine Kvs value: 42 m³/h
Low temperature coolant flow: 35 m³/h
Intercooler Kvs value: 30 m³/h

Fuel system

Fuel type: natural gas
Air supply pressure: 5~15kPa
Methane content: ≥85%
Gas consumption: 2683KW (±5%)

Electrical system

Combustion air volume: 5431 kg/h
Air inlet temperature: 50 °C

Exhaust system

Exhaust gas temperature: < 500°C
Exhaust flow@PRP: 5625kg/h
Max back pressure: 5kPa

Lubrication system

Lubricating oil capacity: 240 dm³
Average consumption rate of lubricating
oil: ≤ 0.3g/KWH

1. Kvs value refers to the flow rate under the condition of pressure loss of 1bar;
2. Ventilation volume $\Delta T=15^{\circ}\text{C}$ ventilation volume, including combustion air volume