WLD6L227TAD TECHNICAL DATA

Basic technical date

Type …….. inline,direct injection,4-stroke,water cooled

Aspiration ……..turbocharged with intercooler

Cylinder quantity (mm)……..6

Cylinder diameter……..114

Cylinder cover type……..Wet

Piston stroke(mm)……..135

Total displacement……..8.27

Compression ratio……..18

Speed regulating rate(%) …….. ……0~5

Rotate speed(r/min)……1500

Rater power(KW) ……..206

Maximum power(KW)……227

Minimum fuel consumption rate(g/kw.h)……..≤210

Exhaust evolution degree(FSN)…….. ≤2.0FSU

Oil volume(L) ……..19

Oil consumption(g/kw.h)……≤0.7

Ignition order(start from free end)……1-5-3-6-2-4

Rotating direction of bent axel…… anticlockwise(face to flywheel end)

Emission standard……TIER Ⅱ

Noise(DB) ……..≤117

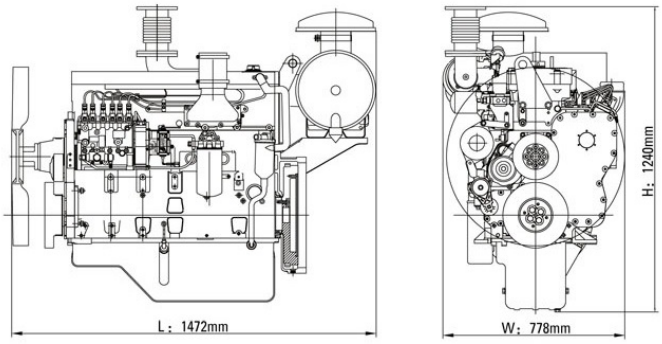
Net weight(kg)…….. .750±50

Size of diesel engine(mm)……..1472X778X1240

Flywheel/Flywheel casing……SAE2&11.5#

Installation Dimension

（mm）



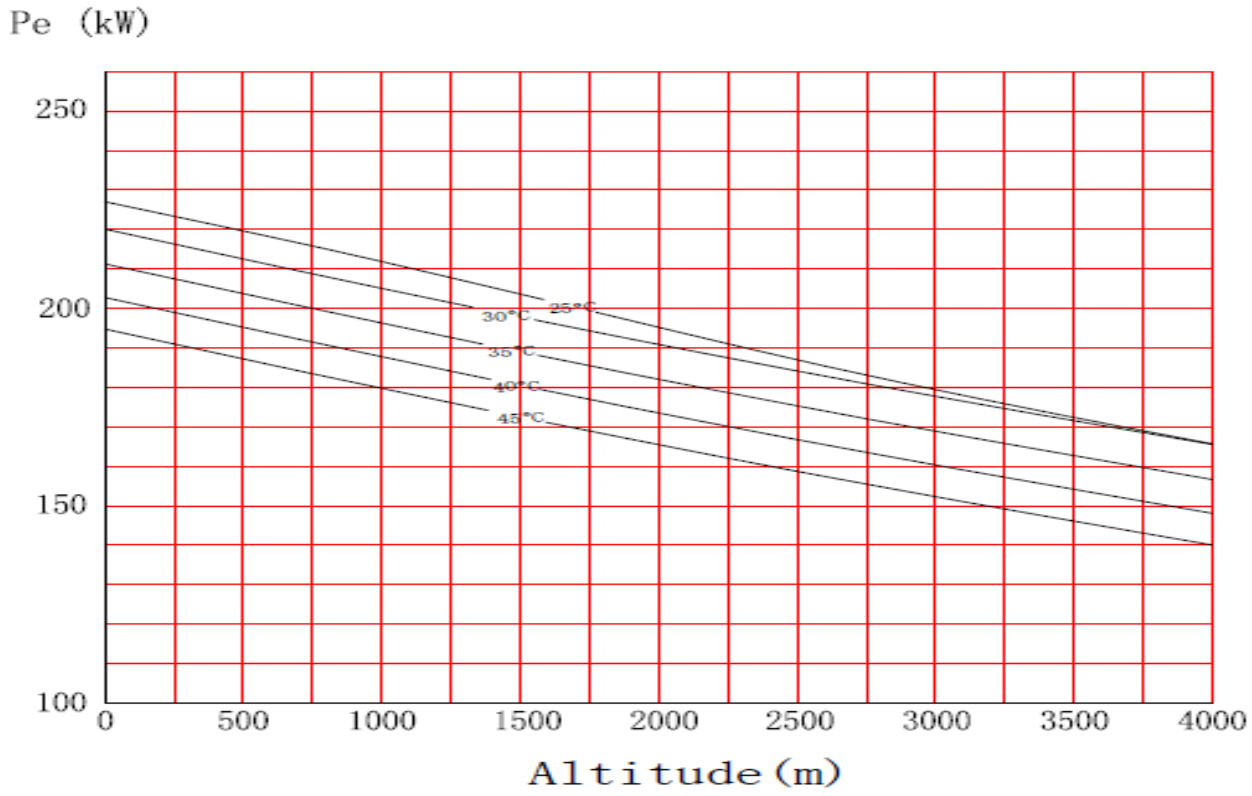
Engine Speed RPM 1500					
Standby Power		Prime Power		Continuous Power	
KW	HP	KW	HP	KW	HP
227	309	206	280	185	252



Engine Performance Date@1500 RPM

OUTPUT POWER			FUEL CONSUMPTION		
%	KW	HP	g/kw.h	litre/hour	U.S.Gal/hour
STANDBY POWER					
100	227	309	205	56	14.8
PRIME POWER					
100	206	280	202	52	13.7
75	155	211	200	39	10.3
50	103	140	205	27	7.1
25	52	71	230	15	4
CONTINUOUS POWER					
100	185	252	202	47	12.4

Load Deration



POWER RATING APPLICATION GUIDELINE

FOR GENERATOR DRIVE ENGINES

These guidelines have been formulated to ensure proper application of generator drive engines in A.C. generator set installations. Generator drive engines are not designed for and shall not be used in variable speed D.C. generator set applications.

STANDBY POWER RATING is applicable for supplying emergency power for the duration of the utility power outage. NO overload capability is available for this rating. Under no condition is an engine allowed to operate in parallel with the public utility at the Standby Power rating.

This rating should be applied where reliable utility power is available. A standby rated engine should be sized for a maximum of an 80% average load factor and 200 hours of operation per year. This includes less than 25 hours per year at the Standby Power rating. Standby ratings should never be applied except in true emergency power outages. Negotiated power outages contracted with a utility company are not considered an emergency.

PRIME POWER RATING is applicable for supplying electric power in lieu of commercially purchased power. Prime Power applications must be in the form of one of the following two categories:

UNLIMITED TIME RUNNING PRIME POWER

Prime power is available for an unlimited number of hours per year in a variable load application. Variable load should not exceed a 70% average of the prime power rating during any operating period of 250 hours.

The total operating time at 100% Prime power shall not exceed 500 hours per year.

A 10% overload capability is available for a period of 1 hour within a 12 hour period of operation. Total operating time at the 10% overload power shall not exceed 25 hours per year.

LIMITED TIME RUNNING PRIME POWER

Prime power is available for a limited number of hours in a non-variable load application. It is intended for use in situations where power outages are contracted, such in utility power curtailment. Engines may be operated in parallel to the public utility up to 750 hours per year at power levels never to exceed the Prime Power rating. The customer should be aware , however , that the life of any engine will be reduced by this constant high load operation. Any operation exceeding 750 hours per year at the Prime Power rating should use the Continuous Power rating.

CONTINUOUS POWER RATING is applicable for supplying utility power at a constant 100% load for an unlimited number of hours per year. No overload capability is available for this rating.