

Diesel Generating Set

MODEL	WOC200-60
Standby Power (60Hz)	155KW / 206KVA
Prime Power (60Hz)	150KW / 188KVA



Standard Features

General Features:

- Engine (DCEC Cummins 6CTA8.3-G2)
- Radiator 50°C max, fans are driven by belt, with safety guard
- 24V charge alternator
- Alternator: single bearing alternator IP23, insulation class H/H
- Absorber
- Dry type air filter, fuel filter, oil filter
- Main line circuit breaker
- Standard control panel
- Two 12V batteries, rack and cable
- Ripple flex exhaust pipe, exhaust siphon, flange, muffler
- User manual

Generator Ratings

Voltage	HZ	Phase	P.F (COS ϕ)	Standby Amps	Standby Ratings (KW/KVA)	Prime Ratings (KW/KVA)
480/277	60	3	0.8	218	165/206	150/188
460/266	60	3	0.8	227	165/206	150/188
440/254	60	3	0.8	238	165/206	150/188
416/240	60	3	0.8	251	165/206	150/188

Sales Promises

WADKIN provides a full line of brand new and high quality products. Each and every unit is strictly factory tested.

Warranty is according to our standard conditions: a, 15 months, counted on the day WADKIN sold to the first buyer; b, One year after installation; c, 1000 running hours (accumulated); subject to the earlier one.

Diesel Generating Set

ENGINE DATA

Manufacturer / Model:	CCEC Cummins 6CTA8.3-G2
Air Intake System:	Turbo, Water/Air Cooling
Fuel System:	PB type fuel pump
Cylinder Arrangement:	6 in line
Displacement:	8.3L
Bore and Stroke:	114*135 (mm)
Compression Ratio:	17.0:1
Rated RPM:	1800rpm
Max. Standby Power at Rated RPM:	187KW/258HP
Governor Type:	Electronic

Exhaust System

Maximum Back Pressure.....	-kPa	10
Exhaust Pipe Size Normally Acceptable.....	-mm	75
Maximum Static Supported Weight at the Turbocharger Outlet Flange.....	-N.m	14

Air Intake System

Maximum Intake Air Restriction with Heavy Duty Air Cleaner		
— Dirty Element.....	-kPa	6
— Clean Element.....	-kPa	4

Fuel System

Type Injection System.....BYC PB Direct Injection
Maximum Restriction at Lift Pump.....	-kPa 27
Maximum Allowable Head on Injector Return Line	-kPa 33.7

Oil System

Minimum Engine Oil Pressure for Engine Protection Devices:		
—Idle Speed.....	-kPa	103
—Governed Speed.....	-kPa	276 - 414
Maximum Oil Temperature.....	-°C	121
Minimum Required Lube System Capacity - Sump plus Filters.....	-litre	27.6

Cooling System

Coolant Capacity - Engine Only.....	-litre	12.3
Maximum Coolant Friction Head External to Engine... -1800 rpm.....	-kPa	35
—1500 rpm.....	-kPa	28
Maximum Static Head of Coolant Above Engine Crank Centerline.....	-m	18.3
Standard Thermostat (Modulating) Range.....	-°C	82 - 95

Electrical System

Cranking Motor (Heavy Duty, Positive Engagement).....	-volt	12V	24V
Battery Charging System, Negative Ground.....	-ampere	63	40
Maximum Allowable Resistance of Cranking Circuit.....	-ohm	0.00075	0.002

Diesel Generating Set

ALTERNATOR SPECIFICATION

Manufacture Model : Stamford UCI274F

Compliance with GB755, BS5000, VDE0530, NEMAMG1-22, IED34-1, CSA22.2 and AS1359 standards.

Alternator Data

Number of Phase:	3
Connecting Type:	3 Phase and 4 Wires, "Y" type connecting
Number of Bearing:	1
Power Factor:	0.8
Protection Grade:	IP23
Altitude:	≤1000m
Exciter Type:	Brushless, self-exciting
Insulation Class, Temperature Rise:	H/H
Telephone Influence Factor (TIF):	< 50
THF:	< 2%
Voltage Regulation, Steady State:	±1%
Alternator Capacity:	167.5KVA
Alternator Efficiencies:	91.7%
Air Cooling Flow:	0.617m ³ /s

GENERATING SET DATA

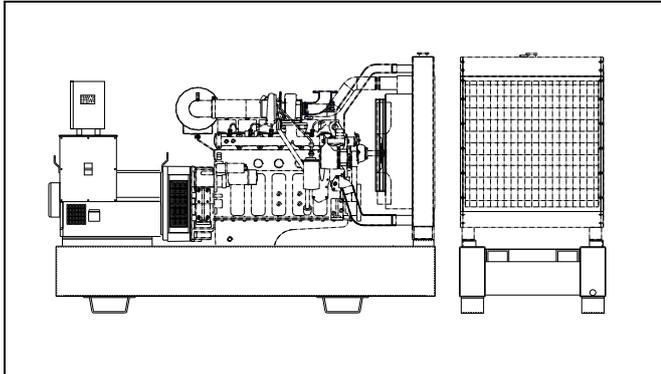
Voltage Regulation:	±5%
Voltage Regulation, Stead State:	±1%
Sudden Voltage Warp (100% Sudden Reduce):	+25%
Sudden Voltage Warp (Sudden Increase):	-20%
Voltage Stable Time (100% Sudden Reduce):	≤6S
Voltage Stable Time (Sudden Increase)	≤6S
Frequency Regulation, Stead State:	≤5%
Frequency Waving:	≤0.5%
Sudden Frequency Warp (100% Sudden Reduce):	+12%
Sudden Frequency Warp (Sudden Increase):	-10%
Frequency Recovery Time (100% Sudden Reduce):	≤5S
Frequency Recovery Time (Sudden Increase):	≤5S

Diesel Generating Set

Options

Engine	Fuel System	Control System
<ul style="list-style-type: none"> ● Heater 2KW & 4KW ● Battery Charger 3.5A & 7A 	<ul style="list-style-type: none"> ● Daily Fuel Tank ● Water Separator ● Fuel Level Sensor 	<ul style="list-style-type: none"> ● Remote Control Panel ● Auto Transfer Switch (ATS) ● Paralleling System
Alternator	Others	Data
<ul style="list-style-type: none"> ● Anti Condensation Heater ● Permanent Magnet Generator (PMG) ● Drop CT (For Paralleling) 	<ul style="list-style-type: none"> ● Rainproof Type ● Soundproof Type ● Trailer Type 	<ul style="list-style-type: none"> ● Engine Parts Drawing List ● Spare Parts

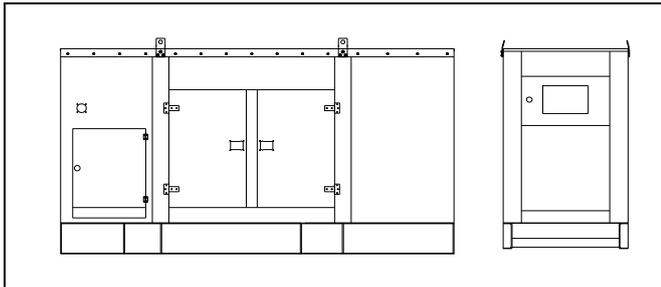
Dimension & Weight



Open Type with Base Fuel Tank

Overall Size: 2440 (mm) *880 (mm) *1650 (mm)

Weight: 1850kg



Soundproof Type

Overall Size: 3230(mm) *1170(mm) *1800(mm)

Weight: 2400kg

HGM6120: AMF (Automatic Mains Failure Module)



WADKIN Standard Control Panel uses micro processing technique integrating digital, intelligent and network techniques which can carry out functions including auto start/stop, data measure, alarming. The controller uses LCD display, optional Chinese and English display interface with operation easy and reliable. It can be widely used in all types of generator automatic control system for compact structure, advanced circuits, simple connections and high reliability

PERFORMANCE AND CHARACTERISTICS

- * Using microprocessor as a core, graphics LCD with big screen and backlight, display between Chinese and English, key touch for operation.
- * Have a RS485 port, can used for communicate to PC.
- * Precision measure and display of

mains voltage	generator current	generator temperature
mains frequency (Hz)	generator frequency (Hz)	generator pressure
mains current	generator active power (kW)	generator fuel level
generator voltage	generator inactive power (kVar)	start battery voltage
generator power factor	generator apparent power (kVA)	generator hours count
generator starts count	generator cumulate electric energy (kWh)	
- * Control protection: Automatic start/stop, load transfer and alarming of generator;
- * Parameters setting: Allow user to modify setting and store them inside internal FLASH memory, the parameters can not be lost even with power down. All parameters can be set from the front panel, or be set by PC used SG72
- * Three channel analog inputs, may joint with Resistive-type temperature/ pressure/ fuel level sensors, Several temperature and pressure sensors can be used directly (ie. VDO, DATCON, CUMMINS), also may select "user defined" sensor via entering 8 point curves;
- * Display of generator cumulated electric energy;
- * Security password-protected programming levels.
- * Several crank success conditions are optional;
- * Built-in speed/frequency detecting units can accurately judge the states such as crank success and over speed;
- * Power supply range is wide, accommodating to different starting battery voltage environments;