

210001 Contracting Cot				
MODEL	WOC275 -60			
Standby Power (60Hz)	220KW / 275KVA			
Prime Power (60Hz)	200KW / 250KVA			





### **Standard Features**

### General Features:

- Engine (DCEC Cummins 6LTAA8.9-G2)
- Radiator 50<sup>o</sup>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
- Two12V batteries, rack and cable
- Ripple flex exhaust pipe, exhaust siphon, flange, muffler
- User manual

### **Generator Ratings**

Voltage	HZ	Phase	P.F (COS¢)	Standby Amps	Standby Ratings (KW/KVA)	Prime Ratings (KW/KVA)
480/277	60	3	0.8	330	220/275	200/250
460/266	60	3	0.8	345	220/275	200/250
440/254	60	3	0.8	360	220/275	200/250
416/240	60	3	0.8	381	220/275	200/250

## **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.





### **ENGINE DATA**

Manufacturer / Model: DCEC Cummins 6LTAA8.9-G2, 4-cycle

Air Intake System: Turbo, Air/Air Cooling

Fuel System: P7100 type fuel pump

Cylinder Arrangement: 6 in line
Displacement: 8.9L

Bore and Stroke: 114\*145 (mm)
Compression Ratio: 16.0:1

Rated RPM: 1800rpm

Max. Standby Power at Rated RPM: 258KW
Governor Type: Electronic

**Exhaust System** 

Exhaust Gas Flow: 35m³/min
Exhaust Temperature: 470
Max Back Pressure: 10.1kPa

Air Intake System

Max Intake Restriction: 6.2kPa
Burning Capacity: 13m³/min

Air Flow: 326m<sup>3</sup>/min

Fuel System

 100%( Prime Power) Load:
 197 g/Kw.h

 75%(Prime Power) Load:
 197 g/Kw.h

 50%(Prime Power) Load::
 201 g/Kw.h

Oil System

Total Oil Capacity: 27.6L

Oil Consumption: ≤4g/kwh

Engine Oil Tank Capacity: 24L

Oil Pressure at Rated RPM: 276-414kPa

Cooling System

Total Coolant Capacity: 41L

Thermostat: 82-93℃

Max Water Temperature:  $104^{\circ}$ C





### **ALTERNATOR SPECIFICATION**

Manufacturer / Model: Stamford UCD274K

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: 250KVA

Alternator Efficiencies: 92.7%
Air Cooling Flow: 0.58m³/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

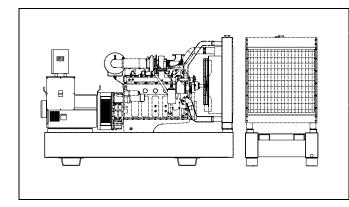




## **Options**

Engine	Fuel System	Control System	
<ul><li>Heater 2KW &amp; 4KW</li></ul>	Daily Fuel Tank	Remote Control Panel	
<ul> <li>Battery Charger 3.5A &amp; 7A</li> </ul>	<ul> <li>Water Separator</li> </ul>	<ul> <li>Auto Transfer Switch (ATS)</li> </ul>	
	<ul> <li>Fuel Level Sensor</li> </ul>	<ul> <li>Paralleling System</li> </ul>	
Alternator	Others	Data	
Anti Condensation Heater	Rainproof Type	Engine Parts Drawing List	
<ul> <li>Permanent Magnet</li> </ul>	<ul> <li>Soundproof Type</li> </ul>	Spare Parts	
Generator (PMG)			
• Drop CT (For Paralleling)	Trailer Type		

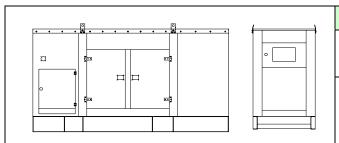
# **Dimension & Weight**



## Open Type with Base Fuel Tank

Overall Size: 2540 (mm) \*950 (mm) \*1670 (mm)

Weight: 2200kg



## Soundproof Type

Overall Size: 3590 (mm) \*1250 (mm) \*2050 (mm)

Weight: 2900kg





### **Standard Control Panel**

## 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
mains frequency (Hz)
mains current
generator voltage
generator power factor
generator starts count

generator current generator frequency (Hz) generator active power (kW) generator inactive power (kVar) star generator apparent power (kVA) generator cumulate electric energy (kWh)

generator temperature generator pressure generator fuel level start battery voltage generator hours count

- \* 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;

