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MODEL	WOC 33-60	
Standby Power (60Hz)	26KW/33KVA	
Prime Power (60Hz)	24KW/30KVA	





Standard Features

General Features:

- Engine (DCEC Cummins 4B3.9-G1)
- Radiator 50^oC 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)
220/127	60	3	0.8	80	26/33	24/30

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 4B3.9-G1, 4-cycle

Air Intake System: Air natural cooled

Fuel System: A model fuel pump

Cylinder Arrangement: 4 in line

Displacement: 3.9L

Bore and Stroke: 102*120 (mm)
Compression Ratio: 16.5:1

Rated RPM: 1800rpm

Max. Standby Power at Rated RPM: 30KW

Governor Type: RSV Mechanical(Std) / Electronic (Optional)

Exhaust System

Exhaust Gas Flow: $4.27 \text{m}^3/\text{min}$ Exhaust Temperature: $410 \,^{\circ}\text{C}$ Max Back Pressure: 10 kPa

Air Intake System

Max Intake Restriction: 5kPa

Burning Capacity: 1.98m³/min

Air Flow: 136m³/min

Fuel System

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

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

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

Oil System

Total Oil Capacity: 11L

Oil Consumption: ≤4g/kwh

Engine Oil Tank Capacity: 9.5L

Oil Pressure at Rated RPM: 345kPa

Cooling System

Total Coolant Capacity: 21L

Thermostat: 82-95

Max Water Temperature: 104





ALTERNATOR SPECIFICATION

Manufacture Model: Stamfrod PI144E

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: 33KVA
Alternator Efficiencies: 86.2%

Air Cooling Flow: 0.15m³/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%

-970

≤1.5%

Sudden Frequency Warp (100% Sudden Reduce): ≤+12%

Sudden Frequency Warp (Sudden Increase): ≤-10%

Frequency Recovery Time (100% Sudden Reduce): ≤5S

Frequency Waving:

Frequency Recovery Time (Sudden Increase): ≤5S

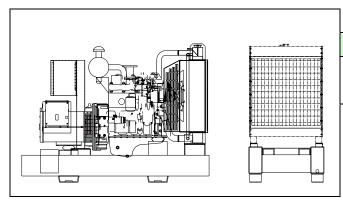




Options

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

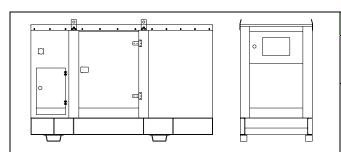
Dimension & Weight



Open Type with Base Fuel Tank

Overall Size: 1800 (mm) *750 (mm) *1350 (mm)

Weight: 876kg



Soundproof Type

Overall Size: 2230 (mm) *1060 (mm) *1680 (mm)

Weight: 1300kg







Standard Control Panel



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

generator temperature mains voltage generator current mains frequency (Hz) generator frequency (Hz) generator pressure mains current generator active power (kW) generator fuel level generator inactive power (kVar) start battery voltage generator voltage generator hours count generator power factor generator apparent power (kVA) 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;

