



# **Output Ratings**

Generator set	Voltage	Hz	Phase	P.F.	Prime Power		Standby Power	
model	(V)				KVA	KW	KVA	KW
AC250	230/400	50	3	0.8	225	180	250	200
•220/380V 240/415V 254/440V is available								

•220/380V,240/415V,254/440V is available

## **Dimension & weight**

Generator set model	Туре	L*W*H(mm)	Weight(kg)
AC250	Open	2570*1000*1650	2000
AC250	Silent	3600*1200*2000	2700

#### Other datas

Circuit Breaker capacity(A)	400
Battery Brand	Varta
Base Fuel Tank Capacity(L)	424

#### Notes:

• Standby power: Continuous running at variable load for duration of an emergency. No overload is permitted on these ratings. In accordance with ISO 3046.

• Prime power: Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period. In accordance with ISO8528, ISO3046.

•Standard reference conditions  $25^{\circ}C(77^{\circ}F)$  Air Inlet Temp, 100m(328 ft) A.S.L. 30% relative humidity.

## Warranty

•The standard warranty period: One year after ex-work or 1000 operation hours whichever come first shall apply.

•Consumable parts(air filter, fuel filter, lube oil filter), All failures and damages due to the mal-operation, neglect of maintenance and operation not according to the operation manual, are out of the scope of warranty.

# DIESEL GENERATOR DATA SHEET

# **Power By Cummins**

Model: AC250



Standard Features
•Engine include one set filters
•Brushless Alternator with AVR
•Radiator with engine driven fan
•Auto control system with LCD show
•3P circuit breaker
•Battery charger and Start battery
•Industrial silencer
•Anti-vibration pads
•8hrs bottom fuel tank≤650KVA
•Standard tools kits
•User manual & Wiring diagrams
•Standard tools kits

Options
•Silent canopy (powder coated)
•ATS
•Remote Control panel
Synchronization system
•Mobile trailer
•Engine heater (water/oil)
•Fuel and water seperator
•Alternator space heater
•PMG
•ABB or 4P circuit breaker
•Exernal fuel tank
•Double wall base fuel tank
•Residential exhaust silencer



Manufacturer reserves the right to make changes in model, technical specifications, color, equipment and accessories without prior notice.

### GENERAL ENGINE DATA

Engine manufacturer		Dongfeng Cummins Engine Co. Ltd		
Engine brand		Cummins		
Engine model		6LTAA8.9-G2		
Engine speed (rpm)		1500		
Engine output	(kWm)			
	Standby Power	240		
	Prime Power	220		
Continuous Power		180		
No. of Cylinde	er	6		
Aspiration		Turbocharged and Charge Air Cooled		
Bore * Stroke (mm)		114*135		
Displacment (litre)		8.9		
Compression Ratio		16.6:1		
Engine Idle Speed (rpm)		800-1000		

## FUEL SYSTEM

Type Injection System	BYC P7100/SEGMA
Fuel Consumption (litre/hour)	
100% prime power	53
75% prime power	39
50% prime power	27
25% prime power	15

### EXHAUST SYSTEM

Maximum Back Pressure (kPa)	10	
Exhaust Gas Temperature (standby/prime power) (°C)	470/430	
Exhaust Gas Flow(standby/prime power) (litre/sec.)	634/584	

# AIR INDUCTION SYSTEM

Maximum Intake Air Restriction (kPa)		
with Dirty Filter Element		6
	with Clean Filter Element	4
Intake Air Flow (standby/prime power) (litre/sec.)		254/248

#### LUBRICATION SYSTEM

Oil Pressure (kPa)	
Idle Speed	103
Governed Speed	276 - 414
Maximum Oil Temperature (°C)	121
Min. required Lube system capacity-sump plus	filters (liter) 27.6

## COOLING SYSTEM

Coolant Capacity — Engine Only (liter)	11.1		
Standard Thermostat Modulating Range (°C)	82-95		
Maxi. Top Tank Temp. for Standby/Prime Power (°C)	104 / 100		

# ELECTRICAL SYSTEM

Cranking Motor (Heavy Duty, Positive Engagement) (volt)	12	24
Battery Charging System, Negative Ground (ampere)	63	40
Minimum Recommended Battery Capacity		
Cold Soak @ -18 to 0-C (0°F CCA)	1500	750

Alternator manufacturer	Cummins Generator Technologies(China) Co. Ltd
Alternator brand	Stamford
Alternator model	UCDI274J
Control system	SELF EXCITED
A.V.R.	Included
Voltage regulation	±1.0%
Insulation system	Class H
Protection	IP23
Rated power factor	0.8
Winding pitch	Two thirds
Winding leads	12
Frequency (Hz)	50
Voltage (V)	400
Phase	3
Output ratings (kVA/kW)	
Cont.H-40°C	230/184
Standby-27°C	260/208
THF	<2%
TIF	<50
Max. overspeed (Rev/Min)	2250
Bearing	Single

# **Control System**

Ai Power adopts ComAp AMF9 or Deepsea DSE6120 as the standard controller for single gen-set applications.. AMF25 or DSE7320 for option.



## Deepsea DSE6120

# **Protection function:**

- •Low oil Pressure
- •High water temperature
- •High voltage and low voltage
- •Over current
- •Over speed
- •Emergency stop
- •Low fuel alarm and shutdown
- •Fail to start

## Features

•Single-genset controller for stand-by and prime power applications

- •3 phase AMF function•3 phase generator protections
- over/under frequency, over/under voltage, over current
- •True RMS voltage measurement
- •True RMS current measurement
- •Event and performance log

Gen-set ext alarm, Engine hours history, ECU Text alarm, Test Run scheduler

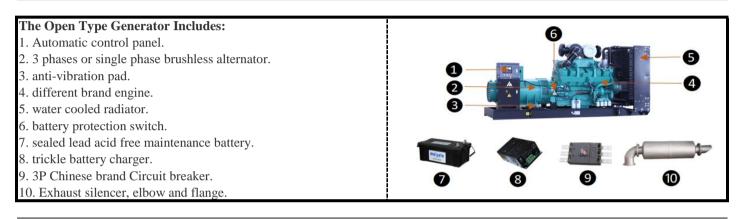
- •Power Measurements
- •User interface
- •Inputs and outputs
- Configurable analogue/digital, binary
- •Direct communication with EFI engines
- •Engine Protections
- Oil pressure, Coolant temperature, Fuel level
- •Breaker control via fasica buttons
- •Fuel Pump control
- •Optional Active Calls(SMS alarm/event)
- •Miscellaneous features
- •Communication interface
  - USB plug-in, Optional RS232, RS485, GSM
- •Multiple display languages
- •Start on low battery
- •Real-time clock
- •Zero power mode
- •LCD and LED alarm indication
- •Configuration Suite PC Software.
- •IP65 protection class
- •Remote monitoring

#### **Open and Silent Generator**

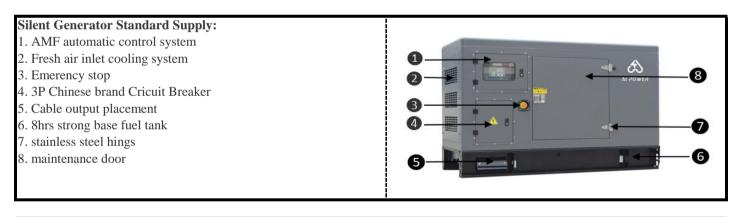
Ai Power silent generator is widely used in residential area which require quiet environment, its reasonable and elegant design not only reduce the noise to applicable to the environment protection, but also a good view on the road. Our 10kva to 650kva generator adopts normal silent canopy, from 650kva to 1500kva adopts 20ft container canopy, the higher power adopts 40HO containe



# **Open Generator Standard Supply**



## **Silent Generator Standard Supply**



## Silent Canopy Features

#### Silent Canopy Features:

- 1. more than 2mm thick steel canopy.
- 2. High quality paint and strict powder paint processing.
- 3. large-scale impedance combined type silencer.
- 4. Stainless steel door locks and hinges.
- 5. High quality fireproof, soundproof and insulation materials.
- 6. Clear monitoring control panel and outer emergency stop.
- 7. Lifting ear is mounted in the base frame for easy pull.
- 8. Fuel and lub oil drainout is all connected to the canopy.
- 9. Fuel refill opening is on the outer canopy.

