







DIESEL GENERATOR DATA SHEET

Power By Cummins

Model: AC500



Output Ratings

Generator set	Voltage	Hz	Phase	P.F.	Prime	Power	Standb	y Power
model	(V)				KVA	KW	KVA	KW
AC500	127/220	60	3	0.8	450	360	500	400

^{•220/380}V,254/440V, 277/480V is avaliable

Dimension & weight

Generator set model	Type	L*W*H(mm)	Weight(kg)
AC500	Open	3100*1400*2100	3500
AC300	Silent	3900*1700*2200	4300

Other datas

Circuit Breaker capacity(A)	1600
Battery Brand	Varta
Base Fuel Tank Capacity(L)	833

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°C (77°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.

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.

Engine

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Engine manufacturer	Dongfeng Cummins Engine Co. Ltd
Engine brand	Cummins
Engine model	QSZ13-G7
Engine speed (rpm)	1800
Engine output(kWm)	
Standby Power	467
Prime Power	409
Continuous Power	367
No. of Cylinder	6
Aspiration	Turbocharged and Charge Air Cooled
Bore * Stroke (mm)	130*163
Displacment (litre)	13
Compression Ratio	17:01
Engine Idle Speed (rpm)	700

FUEL SYSTEM

Type Injection System		Electronic Governor
Fuel Consumption (litre/hour)		
	100% prime power	101.3
	75% prime power	82.4
	50% prime power	59.4
	25% prime power	35.9

EXHAUST SYSTEM

Maximum Back Pressure (kPa)	13
Exhaust Gas Temperature (standby/prime power) (°C)	474/462
Exhaust Gas Flow(standby/prime power) (kg/min.)	43.1/42.6

AIR INDUCTION SYSTEM

Maximum Intake Air Restriction (kPa)		
with Dirty Filter Element		6.2
	with Clean Filter Element	3.7
Intake Air Flow (standby/prime power) (m3/min.)		35.2/34.8

LUBRICATION SYSTEM

Oil Pressure (kPa)	
Idle Speed	82.7
Governed Speed	207-300
Maximum Oil Temperature (°C)	
Total system capacity(standard pan) (L)	75.33

COOLING SYSTEM

Coolant Capacity — Engine Only (liter)	23.1
Standard Thermostat Modulating Range (°C)	82-94
Maxi. Top Tank Temp. for Standby/Prime Power (°C)	102/102

ELECTRICAL SYSTEM

Cranking Motor (Heavy Duty, Positive Engagement) (volt)	24
Minimum battery capacity-cold soak at -18°C or above	
Engine only cold cranking amperes	900 CCA
Engine only reserve capacity	270 min

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ALTERNATOR

Alternator manufacturer	Cummins Generator Technologies(China) Co. Ltd
Alternator brand	Stamford
Alternator model	S4L1S-F
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)	60
Voltage (V)	220
Phase	3
Output ratings (kVA/kW)	
Cont.H-40°C	480/384
Standby-27°C	530/424
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.



ComAP AMF9



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

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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

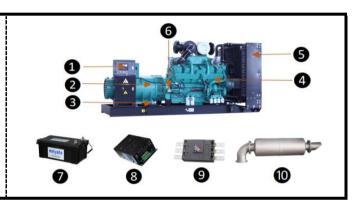
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Open Generator Standard Supply

The Open Type Generator Includes:

- 1. Automatic control panel.
- 2. 3 phases or single phase brushless alternator.
- 3. anti-vibration pad.
- 4. different brand engine.
- 5. water cooled radiator.
- 6. battery protection switch.
- 7. sealed lead acid free maintenance battery.
- 8. trickle battery charger.
- 9. 3P Chinese brand Circuit breaker.
- 10. Exhaust silencer, elbow and flange.



Silent Generator Standard Supply

Silent Generator Standard Supply:

- 1. AMF automatic control system
- 2. Fresh air inlet cooling system
- 3. Emerency stop
- 4. 3P Chinese brand Cricuit Breaker
- 5. Cable output placement
- 6. 8hrs strong base fuel tank
- 7. stainless steel hings
- 8. maintenance door



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.



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