





Output Ratings

Generator set	Voltage	Hz	Phase	P.F.	Prime	Power	Standby	y Power
model	(V)				KVA	KW	KVA	KW
AC344	127/220	60	3	0.8	313	250	344	275
•220/380V 277/480V 254/440V is available								

•220/380V, 277/480V, 254/440V is available

Dimension & weight

Generator set model	Туре	L*W*H(mm)	Weight(kg)
AC344	Open	2950*1100*1900	3000
AC344	Silent	3600*1400*2120	3650

Other datas

Circuit Breaker capacity (A)	1000
Battery Brand	Varta
Base Fuel Tank Capacity (L)	587

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 ISO 8528, ISO 3046.

•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: AC344



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	Chongqing Cummins Engine Co., Ltd.
Engine brand	Cummins
Engine model	NTA855-G1
Engine speed (rpm)	1800
Engine output(kW)	
Standby power rating	317
Prime power rating	287
Туре	4-Cycle, In line, 6 Cylinder
Aspiration	Turbocharged and aftercooled
Bore * Stroke (mm)	140 * 152
Displacment (litre)	14
Compression Ratio	14.5:1

FUEL SYSTEM

Type Injection System		Direct Injection Cummins PT
Fuel Consumpti	on (litre/hour)	
	100% output power	73.4
	75% output power	56.1
	50% output power	38.4
	25% output power	20.6

EXHAUST SYSTEM

Maximum Back Pressure (kPa)	10
Exhaust Gas Temperature (overload/prime power) (°C)	543 / 460
Exhaust Gas Flow(overload/prime power) (liter/s)	1253 / 1028

AIR INDUCTION SYSTEM

Maximum Intake Air Restriction (in. H2O)		
with Dirty Filter Element		25
	with Clean Filter Element	15
Intake Air Flow	(overload/prime power) (liter/s)	463 / 425

COOLING SYSTEM

Coolant Capacity — Engine Only (liter)	20.8
Standard Thermostat Modulating Range	82-94
Maximum Coolant Temperature (°C)	96
Maximum Coolant Pressure(kPa)	276
Maxi. Top Tank Temp. for Overload/Prime Power (°C)	104 / 100

LUBRICATION SYSTEM

Oil Pressure (kPa)	
Idle Speed	103
Governed Speed	241-345
Maximum Oil Temperature (°C)	121
Total System Capacity (Including Bypass Filter) (liter)	38.6

ELECTRICAL SYSTEM

Cranking Motor (Heavy Duty, Positive Engagement) (volt)	24
Battery Charging System, Negative Ground (ampere)	35

ALTERNATOR

Alternator manufacturer	Cummins Generator Technologies(China) Co. Ltd
Alternator brand	Stamford
Alternator model	S4L1S-D
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	360/288
Standby-27°C	395/316
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

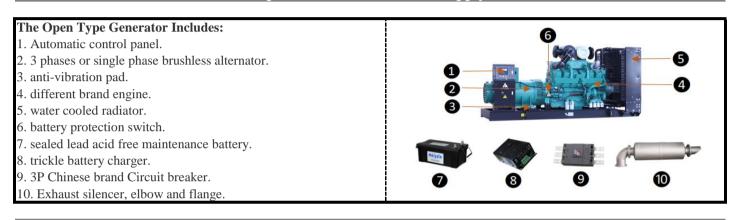
- •3 phase generator protections
- over/under frequency, over/under voltage, over current
- •True RMS voltage measurement
- •True RMS current measurement
- •Event and performance log
- Gen-set ext alarm, Engine hours history, ECU Text alarm, Test Run scheduler
- •Power Measurements
- •User interface
- •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 40HQ contain



Open Generator Standard Supply



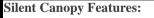
Silent Generator Standard Supply

Silent Generator Standard Supply:

- AMF automatic control system
 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



- 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.

