







DIESEL GENERATOR DATA SHEET

Power By Deutz

Model: ADE220



Output Ratings

Generator set	Voltage	Hz	Phase	P.F.	Prime	Power	Standby	y Power
model	(V)				KVA	KW	KVA	KW
ADE220	230/400	50	3	0.8	200	160	220	176

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

Dimension & weight

Generator set model	Type	L*W*H(mm)	Weight(kg)
ADE220	Open	1970*1060*1380	1700
ADE220	Silent	3700*1100*1800	2500

Other datas

Circuit Breaker capacity(A)	400
Battery Brand	Varta
Base Fuel Tank Capacity(L)	365

Notes:

- \bullet 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° 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.

Xiamen Ai Power Technology Co., Ltd.

Engine

GENERAL	FNCINE	DATA

Engine manufacturer	Deutz (Dalian) Engine Co., Ltd.
Engine brand	Deutz
Engine model	BF6M1013FC G3
Engine speed (rpm)	1500
Engine output(kWm)	
Standby Power	201
Prime Power	183
Continuous Power	166
No. of Cylinder	6 in line
Aspiration	Turbo, CAC
Bore * Stroke (mm)	108 * 130
Displacment (litre)	7.15
Compression Ratio	19:01
Mean effective pressure (bar)	22.5
Piston speed (m/s)	6.5

FUEL SYSTEM

Injection System		single injection pumps
Fuel Consumption (litre/hour)		
	25% prime power	11.9
50% prime power		22.6
	75% prime power	33.6
	100% prime power	45.6

LUBRICATION SYSTEM

Oil specification	TR0199-99-3002/6
Oil consumption(as % of fuel consumption)	0.3
Oil capacity(sump) (L)	31
Min. oil pressure(warning/shut down) (bar)	2.7 / 2
Max. permissible oil temp(oil pan)	130

INLET / EXHAUST SYSTEM

Max. intake depression(switch setting) (mbar)	25
Conbustion air volume (m³/h)	746
Maximum Back Pressure (mbar)	30
Max. Exhaust Gas Temperature (°C)	530
Exhaust Gas Flow (at above temp)	2112

COOLING SYSTEM

Max. perm. Coolant outlet temp. (°C)	105
Max. temp of coolant(warning/shutdown)) (°C)	108 / 110
Standard Thermostat Modulating Range (°C)	83-98
Coolant Capacity — Engine Only (liter)	9.8
Air to boil(max. perm. cool air temp. at fan) (°C)	50
Cooling air flow (m ³ /h)	11520

ELECTRICAL SYSTEM

Voltage (V)	24
Starter (kW)	6
Alternator output (A)	35
Batteries(min. capacity, cold start limit -5°C)	2*100

Alternator

Alternator manufacturer	Cummins Generator Technologies(China) Co. Ltd
Alternator brand	Stamford
Alternator model	UCI274H
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	200/160
Standby-27°C	220/176
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

Xiamen Ai Power Technology Co., Ltd.

Open and Silent Generator

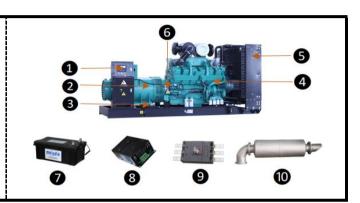
Ai Power silent generator is widely used in residential area which require quiet environment, its reasonable and elegant design not only reduce the noise to applicable to the environment protection, but also a good view on the road. Our 10kva to 650kva generator adopts normal silent canopy, from 650kva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



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.



Xiamen Ai Power Technology Co., Ltd.