

# DIESEL GENERATOR DATA SHEET

**Power By Deutz**

**Model: ADE110**



## Output Ratings

Generator set model	Voltage	Hz	Phase	P.F.	Prime Power		Standby Power	
	(V)				KVA	KW	KVA	KW
ADE110	230/400	50	3	0.8	100	80	110	88

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

## Dimension & weight

Generator set model	Type	L*W*H(mm)	Weight(kg)
ADE110	Open	1600*880*1250	1100
	Silent	2900*1100*1500	1800

## Other datas

Circuit Breaker capacity(A)	160
Battery Brand	Varta
Base Fuel Tank Capacity(L)	194

## 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°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 separator
•Alternator space heater
•PMG
•ABB or 4P circuit breaker
•External 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.

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## Engine

### GENERAL ENGINE DATA

Engine manufacturer	Deutz (Dalian) Engine Co., Ltd.	
Engine brand	Deutz	
Engine model	BF4M1013EC G1	
Engine speed (rpm)	1500	
Engine output(kWm)		
	Standby Power	102
	Prime Power	97
	Continuous Power	92
No. of Cylinder	4 in line	
Aspiration	Turbo, CAC	
Bore * Stroke (mm)	108 * 130	
Displacment (litre)	4.76	
Compression Ratio	19:01	
Mean effective pressure (bar)	17.1	
Piston speed (m/s)	6.5	

### FUEL SYSTEM

Injection System	single injection pumps	
Fuel Consumption (litre/hour)		
	25% prime power	6.7
	50% prime power	12.2
	75% prime power	18.0
	100% prime power	24.2

### LUBRICATION SYSTEM

Oil specification	TR0199-99-3002/6	
Oil consumption(as % of fuel consumption)	0.3	
Oil capacity(sump) (L)	11	
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	
Combustion air volume (m³/h)	365	
Maximum Back Pressure (mbar)	30	
Max. Exhaust Gas Temperature (°C)	560	
Exhaust Gas Flow (at above temp)	1102	

### 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)	7.4	
Air to boil(max. perm. cool air temp. at fan) (°C)	54	
Cooling air flow (m³/h)	6100	

### ELECTRICAL SYSTEM

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

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## Alternator

Alternator manufacturer	Cummins Generator Technologies(China) Co. Ltd
Alternator brand	Stamford
Alternator model	UCI274C
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	100/80
-----Standby-27°C	110/88
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

### 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

### 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

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## Open and Silent Generator

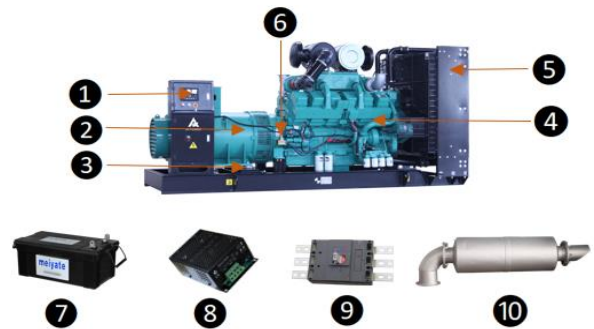
Ai Power silent generator is widely used in residential area which require quiet environment, its reasonable and elegant design not only reduce the noise to applicable to the environment protection, but also a good view on the road. Our 10kva to 650kva generator adopts normal silent canopy, from 650kva to 1500kva adopts 20ft container canopy, the higher power adopts 40HQ 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. Emergency stop
4. 3P Chinese brand Circuit Breaker
5. Cable output placement
6. 8hrs strong base fuel tank
7. stainless steel hinges
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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