



## DIESEL GENERATOR DATA SHEET

**Power By Deutz**

**Model: ADE413**



### Output Ratings

Generator set model	Voltage	Hz	Phase	P.F.	Prime Power		Standby Power	
	(V)				KVA	KW	KVA	KW
ADE413	230/400	50	3	0.8	375	300	413	330

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

### Dimension & weight

Generator set model	Type	L*W*H (mm)	Weight (kg)
ADE413	Open	2950*1520*2100	2600
	Silent	4400*1800*2250	4600

### Other datas

Circuit Breaker capacity (A)	630
Battery Brand	Varta
Base Fuel Tank Capacity (L)	640

### 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 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	Hebei Huabei Diesel Engine Co.,Ltd
Engine brand	Deutz
Engine model	BF6M1015CP-LA G
Engine speed (rpm)	1500
Engine output(kW)	365
Control Systems	electronic governor
Displacment (litre)	11.906
No. of cyliner	6
Cylinder Arrangement	V-form 90° angle
Aspiration mode	Turbocharged
Bore * Stroke	132 * 145 mm
Compression ratio	16.5
Rotation direction ( View from flywheel)	Anti-clockwise
Fuel Consumption @100% load (L/h)	79.3

### LUBRICATION SYSTEM

Min. oil pressure at 1500rpm (oil temp. 90°C)	≥3 bar
Min. oil pressure at 600rpm (oil temp. 90°C)	≥1 bar
Oil consumption rate	<0.3% of fule consumption
Oil Temperature of normal operation	<130 °C
Initial oil filling	38 L
Oil filter element type	Disposable filter
No. of oil filter element	1

### COOLING SYSTEM

Engine coolant capacity	17
Open temperature of the two thermostats	79/87 °C
Thermostat open temperature both	94/102 °C
Max. operating temperature allowed	103 °C

### COLD STARTING SYSTEM

Lowest ambient temp. of cold starting without assistant	-17 °C
Lowest ambient temp. of cold starting with flame preheat plu	-32 °C

### FUEL SYSTEM

Idel speed	600±50 rpm
Low-pressure pump oil load capacity	190 L/h
Fuel filter element type	Disposable filter
No. of the fuel filter element	2

### START SYSTEM

Battery voltage	24 V
Starter rated power	9 kW
Generator Capacity	55 A
Generator voltage	28.5 V

### EXHAUST SYSTEM

Max. exhaust gas temp.	555°C
Max. exhaust backpressure	50 mbar

### AIR INDUCTION SYSTEM

Charge air temp.	206°C
Volume of air intake(25°C/1000mbar)	1478 m3/h
Max. allowable air inlet resistance	50 mbar

## ALTERNATOR

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Alternator manufacturer	Cummins Generator Technologies(China) Co. Ltd
Alternator brand	Stamford
Alternator model	HCI444FS
Control system	Self excited
A.V.R.	Included
Voltage regulation	±1%
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	380/304
-----Standby-27°C	404/323
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

## Open and Silent Generator

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Ai Power silent generator is widely used in residential area which require quiet environment, its reasonable and elegant

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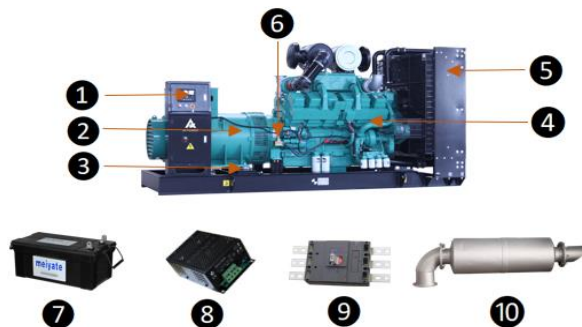
design not only reduce the noise to applicable to the environment protection, but also a good view on the road. Our 10kva to 650kva generator adopts normal silent canopy, from 650kva to 1500kva adopts 20ft container canopy, the higher power adopts 40HQ container canopy.



## 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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