







DIESEL GENERATOR DATA SHEET

Power By Doosan

Model:AD715



Output Ratings

Generator set	Voltage	Hz	Phase	P.F.	Prime	Power	Standby	y Power
model	(V)				KVA	KW	KVA	KW
AD715	400/230	50	3	0.8	650	520	715	572

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

Dimension & weight

Generator set model	Туре	L*W*H(mm)	Weight(kg)
AD715	Open	3520*1300*2100	3800
AD/13	Silent	4300*1750*2230	4800

Other datas

Circuit Breaker capacity(A)	1000
Battery Brand	Varta
Base Fuel Tank Capacity(L)	1177

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 Configuration

- Engine include air, fuel, oil filters, starting motor and charge alternator etc.
- Brushless AC alternator, single bearing, flange connection, w/AVR
- Radiator with engine driven fan mounted on skid
- Channel steel base frame, <550KW base 8hrs mounted fuel tank as standard
- Anti-vibration pads between engine/alternator and base frame
- Circuit breaker 3P as standard, 4P optional
- Auto control panel
- Start battery w/ connecting cable and floating battery charger
- Flexbile pipe, exhaust elbow, industrial silencer etc.
- · Standard tools kit
- Electric drawing, test report ,operation & maintaince manual of generator etc.
- •Optional soundproof/Container canopy, ATS cabinet, remote control panel, synchronization panel, movable trailers, heat exchanger, remote horizontal water tank system, external fuel tank, etc



Manufacturer reserves the right to make changes in model, technical specifications, color, equipment and accessories without prior notice.

Engine

GENERAL ENGINE DATA

Engine manufacture	Doosan Infracore Co., Ltd
Engine brand	Doosan
Engine model	DP222FE
Engine speed (rpm)	1500
Engine output(kWm)	
Standby Power	612
Prime Power	569
Engine Type	4-Cycle, V-type, 12-Cylinder, Turbo charged & intercooled (air to air)
Bore x Stroke (mm)	128 x 142
Displacment (litre)	21.927
Compression Ratio	14.2:1

FUEL SYSTEM

Type		Bosch type in-line pump with integrated, electromagnetic actuator
Governor		Electric type (all speed control)
Fuel Consumption	on (litre/hour)	
	25% prime load	38
	50% prime load	73.5
	75% prime load	109.8
	100% prime load	148.5

EXHAUST SYSTEM

Maximum Back Pressure (kPa)	5.9
Exhaust gas temp. after turbo. (prime/standby power) (°C)	536/630
Exhaust Gas Flow(prime/standby power) (m3/min)	106.7/126.7

AIR INDUCTION SYSTEM

Maximum Intake Air Restriction (kPa)		
with Clean Filter Element		2.16
	with Dirty Filter Element	6.23
Intake Air Flow(prime/standby power) (m3/min)		37.8/48.5

COOLING SYSTEM

Cooling method	Fresh water forced circulation
Coolant capacity	Engine Only: Approx. 23 lit., With Radiator: Approx 88 lit.(standard)
Water Temperature	
Maximum for standby and Prime (°C)	103
Before start of full load (°C)	40
Thermostat Type and Range	Wax – pellet type, Opening temp. 71°C, Full open temp. 85°C

LUBRICATION SYSTEM

Lub. Method	Fully forced pressure feed type
Oil pan capacity	Max. 40 liters, Min. 33 liters
Lub oil pressure (kPa)	
Idle Speed Min.	100
Governed Speed Min.	250
Maximum Oil Temperature (°C)	120

ELECTRICAL SYSTE

Battery Charging Alternator	24V x 45A alternator
Starting motor	24V x 7.0 kW
Battery Voltage	24V
Battery Capacity	2 x 200 Ah (recommended)

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ALTERNATOR

Alternator manufacturer	Cummins Generator Technologies(China) Co. Ltd
Alternator brand	Stamford
Alternator model	S5L1D-F4
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	670/536
Standby-27°C	738/590
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

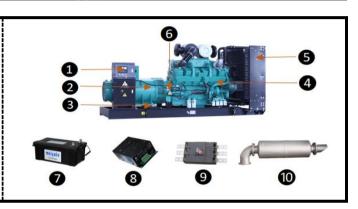
Ai Power silent generator is widely used in residential area which require quiet environment, its reasonable and elegant design not only reduce the noise to applicable to the environment protection, but also a good view on the road. Our 10kva to 650kva generator adopts normal silent canopy, from 650kva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