



Output Ratings

Generator set	Voltage	Hz	Phase	P.F.	Prime	Power	Standb	y Power
model	(V)				KVA	KW	KVA	KW
AD839	400/230	50	3	0.8	763	610	839	671
•380/220V 415/240V 440/254V is available								

V,415/240V,440/254V is avaliab.

Dimension & weight

Generator set model	Туре	L*W*H(mm)	Weight(kg)
AD839	Open	3650*1300*2100	3800
AD639	Silent	4350*1750*2230	4850

Other datas

Circuit Breaker capacity(A)	1250
Battery Brand	Varta
Base Fuel Tank Capacity(L)	1288

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.

DIESEL GENERATOR DATA SHEET

Power By Doosan

Model:AD839



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.

GENERAL ENGINE DATA

Engine manufacture	Doosan Infracore Co., Ltd
Engine brand	Doosan
Engine model	DP222CA
Engine speed (rpm)	1500
Engine output(kWm)	
Standby Power	727
Prime Power	663
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	15:1

FUEL SYSTEM

Туре		Bosch type in-line pump with integrated, electromagnetic actuator
Governor		Electric type (all speed control)
Fuel Consumption	on (litre/hour)	
	25% prime load	42.1
	50% prime load	79.3
	75% prime load	119.1
	100% prime load	161

EXHAUST SYSTEM

Maximum Back Pressure (kPa)	5.9
Exhaust gas temp. after turbo. (prime/standby power) (°C)	478/502
Exhaust Gas Flow(prime/standby power) (m3/min)	100/108

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)		41.8/45

COOLING SYSTEM

Cooling method	Fresh water forced circulation
Coolant capacity	Engine Only : Approx. 23 lit., With Radiator : Approx 114 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. 27 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)

ALTERNATOR

Alternator manufacturer	Cummins Generator Technologies(China) Co. Ltd	
Alternator brand	Stamford	
Alternator model	S6L1D-C4	
Control system	PMG	
A.V.R.	Included	
Voltage regulation	±1%	
Insulation system	Class H	
Protection	IP23	
Rated power factor	0.8	
Winding pitch	Two thirds	
Winding leads	6	
Frequency (Hz)	50	
Voltage (V)	400	
Phase	3	
Output ratings (kVA/kW)		
Cont.H-40°C	810/648	
Standby-27°C	860/688	
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 container canopy.



Open Generator Standard Supply



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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