



Doosan



ENGINE

- Doosan series heavy duty diesel engine
- 4 cycle, water cooled, turbocharged & air to air charge cooled /turbocharged & air to water charge cooled
- Direct injection
- Electronic governor system
- 24 volt self-starter and charger alternator
- Changeable air, fuel and oil filter
- Tropical type radiator
- Flexible fuel pipe
- Oil discharge valve and extension pipe
- Industrial type silencer, exhaust spiral or compensator
- Maintenance free battery
- Engine block water heater (in automatic models)
- Diesel gen-set maintenance and operating instructions and electrical circuit diagram

QUALITY STANDARD

Our generators are manufactured in compliance with VDE 0530, BSE 4999 BS5000, IEC 34, TS ISO 8528, TS EN ISO 3744, TS EN ISO 3746, TS EN 60034-1, TS EN 60204-1, TS EN 60335-1, TS EN 61439-1,

EN 61000, TS EN ISO12100 standards.

We have ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 and ISO10002:2006 management system certificates from Kiwa & MEYER, an accredited independent quality organization.

Our generators up to 400 kw are manufactured in compliance with 2000/14/EC European noise emission directive and certified from Ente Certificazione Macchine.

We also have TS ISO 8528-4, TS ISO 8528-5, TS EN 13501-1+A1:2013 flame retardancy and TS EN ISO 9227 certificates against anti-corrosion together with CE Declaration.

ALTERNATOR

- Brushless, single bearing, flexible disc 4 poles alternator for harmonic failure
- H type isolation class
- IP 21-23 protection class
- Self exciter
- Electronic automatic voltage regulator
- Stator 2/3 step for harmonic failure
- The alternator windings are protected by insulating varnish against oil and acid.

EXTRA EQUIPMENTS

- Charge ammeter
- Moulded case circuit breaker (in automatic models)
- Hospital/Critical type silencer
- Sound-proof canopy
- Mobile - trailer
- Synchronization control panel for 2-16 gensets
- 3 pole/4 pole automatic transfer panel (A.T.S.)
- Fuel and oil heater
- Alternator heater
- Automatic fuel filling system
- Fuel-water separator filter
- PMG warning system

CANOPY

- Modular type sound-proof canopy
- Canopy installation executed with screw and nut, without welding process
- Epoxy and polyester powder painted canopy
- Canopy designed for easy maintenance
- Lockable doors on both sides of canopy
- Emergency stop button
- Transparent panel inspection window

AUTOMATIC CONTROL PANEL

- LCD display screen
- Hardware and materials needed
- Battery charger
- USB port & RS-485 output

GEN-SET SAFETY PROTECTION & ALARMS

- High water temperature
- Over current load
- Low oil pressure
- High & low genset voltage
- High & low engine speed
- Start/stop failure
- Low radiator water level



Easy maintenance canopy design



Refilling from the outside of the canopy



Canopy made of galvanized steel



Warning system for decreasing fuel with electronic fuel level sender





Doosan Series Diesel Generator Sets 130 - 170 - 225 - 250 kVA

MODEL				ADJ 130	ADJ 170	ADJ 225	ADJ 250
GROUP	GEN-SET POWER	STAND BY	kVA	130	170	225	250
			kW	104	136	180	200
		PRIME	kVA	118	154,5	204,5	227,2
			kW	94,4	123,6	163,6	181,8
	CANOPY DIMENSION (W x L x H) mm			1100x2950x1970	1150x3300x2260	1150x3300x2260	1150x3300x2260
	CANOPY WEIGHT kg			2006	2318	2420	2566
	OPEN DIMENSION (W x L x H) mm			1100x2470x1450	1150x2745x1910	1150x2745x1910	1150x2745x1910
	OPEN WEIGHT			1676	1888	1990	2136
ENGINE	BRAND			DOOSAN	DOOSAN	DOOSAN	DOOSAN
	TYPE			D1146T	DP086TA	P086TI	DP086LA
	POWER	STAND BY	kW	118	147	194	219
		PRIME	kW	107,2	133	176	199
	SPEED (rpm)			1500	1500	1500	1500
	CYCLE			4	4	4	4
	DISPLACEMENT (lt)			8,071	8,071	8,071	8,071
	NUMBER OF CYLINDERS			6 IN LINE	6 IN LINE	6 IN LINE	6 IN LINE
	BORE x STROKE (mm x mm)			111x 139	111x 139	111x 139	111x 139
	COMPRESSION RATIO			16,8 : 1	16,4 : 1	16,4 : 1	16,4 : 1
	GOVERNOR TYPE			ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC
	INDUCTION			TURBOCHARGED INTERCOOLER	TURBOCHARGED INTERCOOLER	TURBOCHARGED INTERCOOLER	TURBOCHARGED INTERCOOLER
	COMBUSTION SYSTEM			DIRECT	DIRECT	DIRECT	DIRECT
	COOLING SYSTEM			WATER	WATER	WATER	WATER
	FUEL CONSUMPTION lt / h	%100 PRIME POWER		25,9	33,7	43,1	487,7
		%75 PRIME POWER		19,5	25,5	31,7	36,8
%50 PRIME POWER		13,6	17,4	21,1	24,6		
TOTAL LUBRICATION SYSTEM CAPACITY (lt)			15,5	15,5	15,5	15,5	
TOTAL COOLANT CAPACITY (lt)			34	44	44	44	
FUEL TANK CAPACITY (lt)			280	300	300	300	

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

Armak Makine Mühendislik İnş. San. ve Tic. Ltd. Şti.

Denizköşkler Mah. Tunay Sk. No:28
Avcılar / İSTANBUL / TURKEY

T: 0212 694 66 66

F: 0212 593 09 60

armakmakine@armakmakine.com

www.armakmakine.com