

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 extention 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 IS012100 standards.

We have ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 and ISO 10002:2006 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 braker (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 seperator 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

- Start/stop failure

- Low oil pressure
- High & low genset voltage
- High & low engine speed
- 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

Doosan Series Diesel Generator Sets 470-510-580 kVA

MODEL				ADOJ 470	ADOJ 510	ADOJ 580
GROUP	GEN-SET POWER	STAND BY	kVA	470	510	580
			kW	376	408	464
		PRIME	kVA	427	463	527
			kW	341	371	421
	CANOPY DIMESNION (W x L x H) mm			1400×4000×2400	1400x4000x2400	1400x4000x2400
	CANOPY WEIGHT kg			3500	3750	4050
	OPEN DIMENSION (W x L x H) mm			1400x4000x2050	1400x4000x2050	1400x4000x2050
	OPEN WEIGHT			2900	3150	3400
ENGINE	BRAND			DOOSAN	DOOSAN	NAZOOD
	ТҮРЕ			P158LE	DP158LC	DP158LD
	POWER	STAND BY	kW	414	449	510
		PRIME	kW	363	408	464
	SPEED (rpm)			1500	1500	1500
	CYCLE			4	4	4
	DISPLACEMENT (It)			14,6	14,6	14,6
	NUMBER OF CYLNDERS			8 V	8 V	8 V
	BORE x STROKE (mm x mm)			128x 142	128x 142	128x 142
	COMPRESSION RATIO			15 : 1	15 : 1	15 : 1
	GOVERNOR TYPE			ELECTRONIC	ELECTRONIC	ELECTRONIC
	INDUCTION			TURBOCHARGED INTERCOOLER	TURBOCHARGED INTERCOOLER	TURBOCHARGED INTERCOOLER
	COMBUSTION SYSTEM			DIRECT	DIRECT	DIRECT
	COOLING SYSTEM			WATER	WATER	WATER
	FUEL CONSUMPTION It / h	%100 PRIME POWER		85,5	92,8	105
		%75 PRIME POWER		64,1	69,6	79
		%50 PRIME POWER		42.7	46,4	52,5
	TOTAL LUBRICATION SYSTEM CAPACITY (It)			22	22	35
	TOTAL COOLANT CAPACITY (It)			79	79	88
	FUEL TANK CAPACITY (It)			500	500	500

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

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