



YANG DONG

Technical Specifications



ENGINE

- YANG DONG 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





YANG DONG Series Diesel Generator Sets 45 - 55 -75 -100-110kVA

MODEL			AYDJ 045	AYDJ 055	AYDJ 075	AYDJ 100	AYDJ 110	
GROUP	GEN-SET POWER	STAND BY	kVA	45	55	75	100	110
			kW	36	44	60	80	88
		PRIME	kVA	40,9	50	68,2	90,9	100
			kW	32,7	40	54,6	72,7	80
	CANOPY DIMENSION (W x L x H) mm			900x2200x1350	900x2200x1350	1000x2400x1800	1000x2400x1800	1000x2800x200
	CANOPY WEIGHT kg			961	995	1120	1150	1200
	OPEN DIMENSION (W x L x H) mm			900x2200x1150	900x2200x1150	1000x2400x1650	1000x2400x1650	1000x2800x1750
	OPEN WEIGHT			751	795	880	910	960
ENGINE	BRAND		YANG DONG	YANG DONG	YANG DONG	YANG DONG	YANG DONG	
	TYPE		YD4105D	YD4102 ZLD	YDEZLDe	Y4110 ZLDe	YD46ZLD	
	POWER	STAND BY	kW	41,8	47,3	69,1	88	93
		PRIME	kW	38	43	63	80	85
	SPEED (rpm)		1500	1500	1500	1500	1500	
	CYCLE		4	4	4	4	4	
	DISPLACEMENT (lt)		4,087	3,875	4,087	4,4	4,3	
	NUMBER OF CYLINDERS		4 IN LINE	4 IN LINE	4 IN LINE	4 IN LINE	4 IN LINE	
	BORE x STROKE (mm x mm)		105 x 118	102 x 118	105 x 118	110 x 118	110 x 118	
	COMPRESSION RATIO		18 : 1	18 : 1	18 : 1	18 : 1	18 : 1	
	GOVERNOR TYPE		MECHANIC	MECHANIC	MECHANIC / ELECTRONIC	MECHANIC / ELECTRONIC	MECHANIC / ELECTRONIC	
	INDUCTION		NATURAL	NATURAL	NATURAL	NATURAL	NATURAL	
	COMBUSTION SYSTEM		DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	
	COOLING SYSTEM		WATER	WATER	WATER	WATER	WATER	
	FUEL CONSUMPTION lt / h	%100 PRIME POWER		10,6	12,8	16,3	20,8	22,1
		%75 PRIME POWER		7,9	9,6	12,2	15,6	18,9
%50 PRIME POWER		5,3	6,4	8,2	10,4	14,2		
TOTAL LUBRICATION SYSTEM CAPACITY (lt)		13	13	13	17	17		
TOTAL COOLANT CAPACITY (lt)		16,2	16,2	16,2	16,7	16,7		
FUEL TANK CAPACITY (lt)		101	101	140	160	160		

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

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