



Wilkins

Technical Specifications



ENGINE

- Wilkins 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





Wilkins Series Diesel Generator Sets 350-385-412-440-460 kVA

MODEL				AWJ 350	AWJ 385	AWJ 412	AWJ 440	AWJ 460
GROUP	GEN-SET POWER	STAND BY	kVA	350	385	412	440	460
			kW	280	308	330	352	368
		PRIME	kVA	318,2	350	375	400	418
			kW	254,5	280	300	320	334
	CANOPY DIMENSION (W x L x H) mm			1400x3705x2615	1400x3705x2615	1400x3705x2615	1400x3705x2615	1400x3705x2615
	CANOPY WEIGHT kg			4083,7	4083,7	4445,7	4470	4495
	OPEN DIMENSION (W x L x H) mm			1400x3450x2250	1400x3450x2250	1400x3450x2250	1400x3450x2250	1400x3450x2250
	OPEN WEIGHT			3638	3638	4000,2	4025	4050
ENGINE	BRAND			WILKINS	WILKINS	WILKINS	WILKINS	WILKINS
	TYPE			WL 308	WL 308	WL 375	WL 375	WL 420
	POWER	STAND BY	kW	308	308	375	375	420
		PRIME	kW	280	280	340	340	381
	SPEED (rpm)			1500	1500	1500	1500	1500
	CYCLE			4	4	4	4	4
	DISPLACEMENT (lt)			11,8	11,8	14,16	14,16	14,2
	NUMBER OF CYLINDERS			6 IN LINE	6 IN LINE	6 IN LINE	6 IN LINE	6 IN LINE
	BORE x STROKE (mm x mm)			128 x 153	128 x 153	135 x 165	135 x 165	135 x 165
	COMPRESSION RATIO			17 : 1	17 : 1	15,55 : 1	15,55 : 1	15,55 : 1
	GOVERNOR TYPE			ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC
	INDUCTION			TURBOCHARGED - AIR TO AIR COOLED	TURBOCHARGED - AIR TO AIR COOLED	TURBOCHARGED - AIR TO AIR COOLED	TURBOCHARGED - AIR TO AIR COOLED	TURBOCHARGED - AIR TO AIR COOLED
	COMBUSTION SYSTEM			DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
	COOLING SYSTEM			WATER	WATER	WATER	WATER	WATER
	FUEL CONSUMPTION lt / h	%100 PRIME POWER		69,8	71,6	81,2	83,4	86,6
		%75 PRIME POWER		52,6	53,4	59,8	60,5	64,9
%50 PRIME POWER		34,9	36,1	41,1	42,7	43,3		
TOTAL LUBRICATION SYSTEM CAPACITY (lt)			41	41	41	41	48	
TOTAL COOLANT CAPACITY (lt)			80,2	80,2	80,2	80,2	88	
FUEL TANK CAPACITY (lt)			880	880	880	880	880	

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

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