



## 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 525 - 550 - 575 - 600 - 640 kVA

MODEL				AWJ 525	AWJ 550	AWJ 575	AWJ 600	AWJ 640
GROUP	GEN-SET POWER	STAND BY	kVA	525	550	575	600	640
			kW	420	440	460	480	512
		PRIME	kVA	477	500	522,7	545,5	581,8
			kW	382	400	418,2	436,4	465,4
	CANOPY DIMENSION (W x L x H) mm			1400x3705x2615	1100x3500x1950	1200x4200x2715	1200x4200x2715	1200x4200x2715
	CANOPY WEIGHT kg			4557	3750	4066,5	4466,5	4466,5
	OPEN DIMENSION (W x L x H) mm			1400x3450x2250	1100x3500x1650	1200x3750x2050	1200x3750x2050	1200x3750x2050
	OPEN WEIGHT			4100	3150	3742	3742	3742
ENGINE	BRAND			WILKINS	WILKINS	WILKINS	WILKINS	WILKINS
	TYPE			WL 450	WL 450	WL 450-V12	WL 550	WL 550
	POWER	STAND BY	kW	450	450	450	550	550
		PRIME	kW	410	410	410	500	500
	SPEED (rpm)			1500	1500	1500	1500	1500
	CYCLE			4	4	4	4	4
	DISPLACEMENT (lt)			14,2	14,2	25,8	25,8	25,8
	NUMBER OF CYLINDERS			6 IN LINE	6 IN LINE	12 V	12 V	12 V
	BORE x STROKE (mm x mm)			135 x 165	135 x 165	135 x 150	135 x 150	135 x 150
	COMPRESSION RATIO			15,5 : 1	15,5 : 1	16 : 1	16 : 1	16 : 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		93,1	93,1	100	113,8	122,6
		%75 PRIME POWER		69,6	69,6	76	85,9	89,9
%50 PRIME POWER		48,8	48,8	54	60,7	62,2		
TOTAL LUBRICATION SYSTEM CAPACITY (lt)			48	48	65	65	65	
TOTAL COOLANT CAPACITY (lt)			88	88	147	147	147	
FUEL TANK CAPACITY (lt)			880	880	880	1272	1272	

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

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