

## DONGFENG 515-825 kVA

### Technical Specifications



#### ENGINE

- DONGFENG series heavy duty diesel engine
- 4 cycle, water cooled, turbocharged & air to air 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 gen-sets; VDE 0530, BS 4999, BS 5000, IEC 34, TS ISO 8528, TS EN 12601 are manufactured in accordance with the standards mentioned above. Our company fulfills ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 management system requirements, and have the accredited certificates of Kiwa & MEYER. Also we've GOST-R certificate. Our gen-sets have TS ISO 8528-5, TS EN 12601 product standard certificates.

Our gen-sets are certified in accordance with the requirements of 2000/14/EC, noise emission directive.

#### 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

#### EXTRA EQUIPMENTS

- Charge ammeter
- Moulded case circuit breaker (in automatic models)
- Hospital/Critical type silencer
- Sound-proof canopy
- Mobile - trailer
- Synchronization control panel for 2-6 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

#### 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
- Battery charger
- Hardware and materials needed
- USB port & RS-485 output

#### GEN-SET SAFETY PROTECTION & ALARMS

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



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



### DONGFENG Series Diesel Generator Sets 515-825 KVA

MODEL			E SD XX 0515	E SD XX 0570	E SD XX 0640	E SD XX 0715	E SD XX 0825	
GROUP	GEN - SET POWER	STAND BY	kVA	515	570	640	715	825
			kW	412	456	512	572	660
		PRIME	kVA	470	520	585	650	750
			kW	376	416	468	520	600
	CANOPY DIMENSION (W x L x H) mm			1900 x 4850 x 2925	1900 x 4850 x 2925	1900 x 4850 x 2925	1900 x 4850 x 2925	1900 x 4850 x 2925
	CANOPY WEIGHT kg			5190	5370	5680	6080	6150
	OPEN DIMENSION (W x L x H) mm			1900 x 4000 x 3180	1900 x 4000 x 3180	1900 x 4000 x 3180	1900 x 4000 x 3180	1900 x 4000 x 3180
	OPEN WEIGHT kg			4390	4570	4880	5280	5350
ENGINE	BRAND			DONGFENG SHANGHAI DIESEL	DONGFENG SHANGHAI DIESEL	DONGFENG SHANGHAI DIESEL	DONGFENG SHANGHAI DIESEL	DONGFENG SHANGHAI DIESEL
	TYPE			12V135AZLD-1	SC25G610D2	SC25G690D2	SC27G755D2	SC27G830D2
	POWER	STAND BY	kW	438	486	545	610	700
		PRIME	kW	398	441	495	555	636
	SPEED (rpm)			1500	1500	1500	1500	1500
	CYCLE			4	4	4	4	4
	DISPLACEMENT (lt)			25,80	26,60	26,60	26,60	27,14
	NUMBER OF CYLINDERS			12 V TYPE	12 V TYPE	12 V TYPE	12 V TYPE	12 V TYPE
	BORE AND STROKE (mm x mm)			135 X 150	135 X 155	135 X 155	135 X 155	135 X 158
	COMPRESSION RATIO			16:1	16,4:1	16:1	16:1	16,5:1
	GOVERNOR TYPE			ELECTRONIC				
	INDUCTION			TURBOCHARGED & AIR TO AIR CHARGE COOLED				
	COMBUSTION SYSTEM			DIRECT				
	COOLING SYSTEM			WATER				
	FUEL CONSUMPTION (lt/h)	100% OF PRIME POWER		103,13	114,26	128,16	130,48	145,99
		75% OF PRIME POWER		77,35	85,70	96,12	97,86	109,49
50% OF PRIME POWER		51,56	53,13	64,08	65,24	72,99		
TOTAL LUBRICATION SYSTEM CAPACITY (lt)			62	62	62	62	62	
TOTAL COOLANT CAPACITY (lt)			127	132	132	160	160	
FUEL TANK CAPACITY (lt)			1100	1100	1100	1100	1200	

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