



FN Series

YangDong Engine



SPECIFICATIONS

ENGINE

- YANGDONG heavy duty diesel engine
- 12V starter and charge alternator
- Replaceable air, fuel and oil filters
- Mechanical or electronic governor control
- Tropical type radiator
- Flexible fuel hose
- Oil drain valve and extension hose
- Industrial type silencer and steel compensator
- Maintenance-free starter battery
- Water jacket heater
- 1500 rpm engine speed

ALTERNATOR

- IP 21-23 Protection Standard
- H Insulation Class
- 50 Hz Frequency
- 4 pole brushless synchronous type alternator
- Automatic Voltage Regulator (AVR)
- 400/230V AC Output Voltage - 1500 rpm

SOUND PROOF CANOPY AND CHASSIS

- Convenient design for easy lifting and carrying
- High standard sound proof canopy design
- Modular design with easily removable nuts - bolts
- Lockable doors
- Transparent window for watching Control Panel
- Electrostatic powder painted, providing protection against harsh weather conditions
- Emergency STOP button
- Fuel tank inside the chassis
- Anti-vibration wedges (engine - chassis and chassis - ground)

OPTIONAL

- Thermal magnetic CB (for automatic models)
- Super Silent Canopy
- Mobile Generator Sets
- Automatic fuel filling system
- Synchronization panel
- 3 Pole and 4 Pole ATS (Automatic Transfer Switch)
- Fuel Heater, Oil Heater
- External fuel tank and automatic fuel filling system
- Fuel - water separator filter
- Remote monitoring and control system

FN Serisi

YangDong Engine



MODEL				FN 12	FN 17	FN 22	FN 28	FN 34
GROUP		Stand By	kVA	12	17	22	28	35
			kW	9.6	13.6	17.6	22.4	28
		Prime	kVA	10.9	15.4	20	25.4	31.8
			kW	8.7	12.3	16	20.3	25.4
		Rated Current		A	15.7	22.2	28.8	36.5
ENGINE	Engine			YANGDONG				
	Engine Model			YD380D	YD480D	YND485D	YSD490D	Y495D
	Number of Cylinders			3 Inline	4 Inline			
	Injection System			Direct				
	Compression Ratio			18	18	18	18	18
	Bore		mm	80	80	85	90	95
	Stroke		mm	90	90	95	100	105
	Displacement		lt	1.36	1.81	2.15	2.54	2.97
	Air Intake			Natural Aspiration	Natural Aspiration	Natural Aspiration	Natural Aspiration	Natural Aspiration
	Speed (RPM)		rpm	1500				
	Oil Capacity		lt	5.5	6.7	6.7	7.6	8
	Standby Power		kW / hp	11 / 14.85	16 / 20	18.7 / 25.2	23.1 / 31.2	30 / 40.5
	Prime Power		kW / hp	10 / 13.5	14 / 18.9	17 / 23	21 / 28	27 / 36.4
	Fuel Type			Euro Diesel				
	Governor System			Mechanical				
	Cooling System			Water Cooling				
	Coolant Capacity		lt	7	7.6	9	9	14
	Fuel Consumption (lt / h)		Full Load	2.4	4.1	5.5	6.5	6.9
			75% Load	2	3.1	4.2	4.8	6.1
			50% Load	1.4	2	2.8	3.1	5.2
	ALTERNATOR	Alternator Model			FLYS164B	FLYS164D	FLYS184E	FLYS184F
Frequency			Hz	50				
Power			kVA	12.1	17.7	24.75	30	35
Voltage			V	400				
Number of Phases				3				
Aut. Voltage Regulator (AVR)				AS440				
Voltage Regulation				±1%				
Insulation Class				H				
Protection Standard				IP23				
Power Factor			Cos	0.8				
DIMENSIONS	Weight Silent (Open)		Kg	495 (405)	540 (450)	645 (515)	695 (565)	750 (600)
	Width Silent (Open)		mm	750 (750)	750 (750)	900 (900)	900 (900)	900 (900)
	Length Silent (Open)		mm	1400 (1400)	1400 (1400)	2000 (1650)	2000 (1650)	2200 (1850)
	Height Silent (Open)		mm	1100 (1300)	1100 (1300)	1200 (1400)	1200 (1400)	1350 (1500)
	Fuel Tank Capacity		lt	29	29	115	115	125

- 1) Standby power: The max power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage. Overloading isn't permissible.
- 2) Prime Power: The maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load. Average load should be 70%. The generator can be overloaded 10% for 1 hour per 12 hrs.

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



LEROY-SOMER

FULL
ALTERNATOR

MODEL				FN 44	FN 50	FN 66	FN 80	FN 110	FN 125
GROUP		Stand By	kVA	44	50	66	80	110	125
			kW	35.2	40	52.8	64	88	100
		Prime	kVA	40	45.4	60	72	100	113
			kW	32	36.3	48	57.6	80	90
	Rated Current		A	57.6	65.3	86.4	103	144	162
ENGINE	Engine			YANGDONG					
	Engine Model			Y4102D	Y4105D	Y4102ZLD	YD4EZLD	Y4110ZLD	YD4GZLD
	Number of Cylinders			4 Inline					
	Injection System			Direct					
	Compression Ratio			18	18	18	18	18	18
	Bore		mm	102	105	102	105	110	110
	Stroke		mm	118	118	118	118	118	118
	Displacement		lt	3.87	4.1	3.87	4.1	4.4	4.4
	Air Intake			Natural Aspiration	Natural Aspiration	Turbo-Charger With Intercooler			
	Speed (RPM)		rpm	1500					
	Oil Capacity		lt	13	13	13	11	12	12
	Standby Power		kW / hp	36.3 / 49	42 / 56.7	52.8 / 71.3	69.3 / 93.5	88 / 118	99 / 133
	Prime Power		kW / hp	33 / 44.5	38 / 51.3	48 / 65	63 / 85	80 / 108	90 / 121
	Fuel Type			Euro Diesel					
	Governor System			Mechanical				Electronic	
	Cooling System			Water Cooling					
	Coolant Capacity		lt	16.2	15.1	15.1	15.1	15.1	15.1
	Fuel Consumption (lt / h)		Full Load	9	10.8	12.7	12.9	16.2	17.9
			75% Load	6.8	8.2	10.2	10.5	12.5	13.6
			50% Load	5.5	6.5	7.5	7.8	8.8	9.2
ALTERNATOR	Alternator Model			FLYS184J	FLYS224D	FLYS224E	FLYS224F	FLYS274C	FLYS274D
	Frequency		Hz	50					
	Power		kVA	44	55	66	80	110	132
	Voltage		V	400					
	Number of Phases			3					
	Aut. Voltage Regulator (AVR)			AS440					
	Voltage Regulation			±1%					
	Insulation Class			H					
	Protection Standard			IP23					
	Power Factor		Cos	0.8					
DIMENSIONS	Weight Silent (Open)		Kg	890 (740)	950 (790)	1040 (860)	1100 (920)	1220 (1020)	1250 (1050)
	Width Silent (Open)		mm	900 (900)	950 (950)	1000 (1000)	1000 (1000)	1000 (1000)	1000 (1000)
	Length Silent (Open)		mm	2200 (1850)	2300 (1900)	2400 (2000)	2400 (2000)	2800 (2350)	2800 (2350)
	Height Silent (Open)		mm	1350 (1500)	1400 (1600)	1500 (1700)	1500 (1700)	1500 (1700)	1500 (1700)
	Fuel Tank Capacity		lt	125	140	170	170	195	220

D 300

Web based Next Generation Controller



SPECIFICATIONS

- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16Amp MCB & GCB outputs
- 8 configurable digital inputs
- 6 configurable digital outputs
- 3 configurable analog inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal aging of gensets
- Manual "speed fine adjust" on selected ECUs
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity (RS232)
- Easy USB firmware upgrade
- IP65 rating with optional gasket

MEASUREMENTS

- Mains & genset PN/PP voltages
- Mains & genset frequency
- Mains & genset phase currents
- Mains & genset neutral currents
- Mains & genset, phase & total, kW, kVA, kVAR, pf
- Engine speed
- Battery voltage

FUNCTIONALITIES

- AMF unit
- ATS unit
- Remote start controller
- Manual start controller
- Engine controller
- Remote display panel

COMMUNICATION

- USB Device
- RS-232 (2400-57600baud)
- J1939-CANBUS
- Geo-locating through GSM
- GPS support (RS-232)
- Internet Central Monitoring
- SMS message sending
- E-mail sending
- Free PC software: Rainbow Plus
- Modbus RTU
- Modbus TCP/IP

