



# FN 17

## Diesel Generator



YANGDONG

FULL  
ALTERNATOR



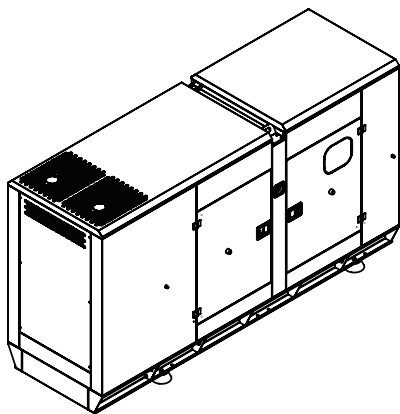
### GENERAL SPECIFICATIONS

Stand By Power	kVA	17
	kW	13.6
Prime Power	kVA	15.4
	kW	12.3
Frequency	Hz	50
Cooling System	Water Cooling	

- 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.

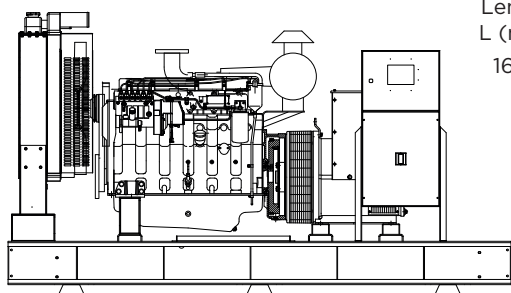
### DIMENSIONS & WEIGHT

#### WITH CANOPY



Length L (mm)	Width W (mm)	Height H (mm)	Weight (Kg)	Fuel Tank Capacity
2000	900	1200	610	115

#### OPEN TYPE



Length L (mm)	Width W (mm)	Height H (mm)	Weight (Kg)	Fuel Tank Capacity
1650	900	1200	480	115



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### ENGINE

Engine	YANGDONG		
Engine Model			YD480D
Number of Cylinders			4 Inline
Injection System			Direct
Compression Ratio			18 : 1
Bore		mm	80
Stroke		mm	90
Displacement		lt	1.809
Air Intake			Naturally Aspirated
Speed (RPM)		rpm	1500
Oil Capacity		lt	6.7
Standby Power		kW / hp	16 / 20
Prime Power		kW / hp	14 / 18.9
Fuel Type			Euro Diesel
Governor System			Mechanical
Cooling System			Water Cooling
Coolant Capacity		lt	7.6
Fuel Consumption (lt / h)	Full Load		4.1
	%75 Load		3.1
	%50 Load		2

### ALTERNATOR

Alternator Model			FLY-164D
Frequency		Hz	50
Power		kVA	17.7
Voltage		V	230 / 400
Nb of Phases			3
Aut. Voltage Regulator (AVR)			AS440
Voltage Regulation			±1%
Insulation Class			H
Protection Standard			IP 22
Power Factor		Cos	0.8

### TECHNICAL SPECIFICATIONS

#### ENGINE

- YANGDONG heavy duty diesel engine
- 12V starter and charge alternator
- Replaceable air, fuel and oil filters
- Mechanical 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



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# FN 17

## Diesel Generator

### CONTROL PANEL

# 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



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# FN 22

## Diesel Generator



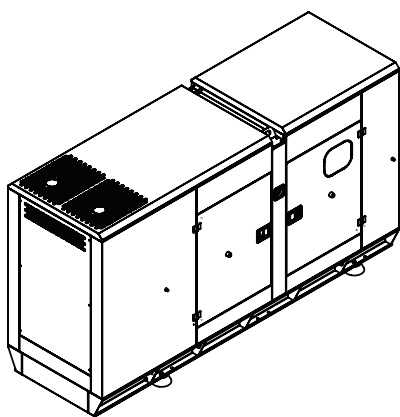
### GENERAL SPECIFICATIONS

Stand By Power	kVA	22
	kW	17.6
Prime Power	kVA	20
	kW	16
Frequency	Hz	50
Cooling System	Water Cooling	

- 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.

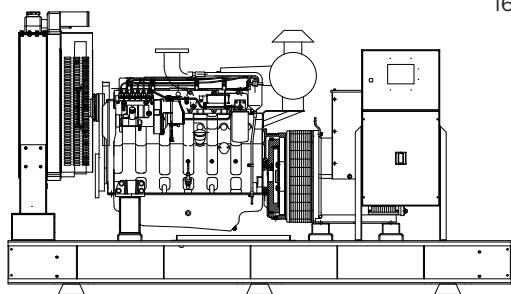
### DIMENSIONS & WEIGHT

#### WITH CANOPY



Length L (mm)	Width W (mm)	Height H (mm)	Weight (Kg)	Fuel Tank Capacity
2000	900	1200	630	115

#### OPEN TYPE



Length L (mm)	Width W (mm)	Height H (mm)	Weight (Kg)	Fuel Tank Capacity
1650	900	1200	500	115



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### ENGINE

Engine	YANGDONG		
Engine Model			YND485D
Number of Cylinders			4 Inline
Injection System			Direct
Compression Ratio			18 : 1
Bore		mm	85
Stroke		mm	95
Displacement		lt	2.15
Air Intake			Naturally Aspirated
Speed (RPM)		rpm	1500
Oil Capacity		lt	6.7
Standby Power		kW / hp	18.7 / 25.2
Prime Power		kW / hp	17 / 23
Fuel Type			Euro Diesel
Governor System			Mechanical
Cooling System			Water Cooling
Coolant Capacity		lt	9
Fuel Consumption (lt / h)	Full Load		5.5
	%75 Load		4.2
	%50 Load		2.8

### ALTERNATOR

Alternator Model			FLY-184E
Frequency		Hz	50
Power		kVA	24.75
Voltage		V	230 / 400
Nb of Phases			3
Aut. Voltage Regulator (AVR)			AS440
Voltage Regulation			±1%
Insulation Class			H
Protection Standard			IP 22
Power Factor		Cos	0.8



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- 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
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- Modular design with easily removable nuts - bolts
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