

POWER YOUR FUTURE

**Yanmar Generator
FD20Y**

4TNV 84T-GGE

**Prime Power: 16KW/20KVA
Standby Power: 17.6KW/22KVA**



GENERATING POWER SOLUTIONS

Increased availability for new operations
Reliable, robust and versatile generator.
Ready to deliver power for a next job.

Increased uptime during operations
Once installed on the end-user-site, the generator will be ready to run: "peace of mind" operation.

Reduced transport and installation costs
The compact and robust design with integrated transport features enables faster and safer transport and installation.

Reduced service & maintenance costs
Longer service intervals.
Quicker and more efficient service jobs.

Premium resale value
Designed and built to last.

SAFETY

- Operate safely in accordance with proper operation manual.
- To prevent trouble and accidents, perform daily and preventive maintenance checks without fail.

Yanmar Series

20KVA



PT. CIPTA DUA POWER FRANS DIESEL

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Technical Data

FD20Y

| Model | | FD20Y |
|----------------------------|---------|---------|
| Rated prime power | kva | 20 |
| Rated standard power | kva | 22 |
| Rated voltage line to line | V | 400/230 |
| Rated current | A | 40 |
| Maximum sound level | dB(@7m) | 69 |

Engine-DCEC Yanmar

| | | |
|---------------------------|--------|-----------------------|
| Model | | 4TNV 84T-GGE |
| Aspiration | | Air natural aspirated |
| Fuel system | | A type |
| No. cylinders | | 4 in line |
| Displacement | Liquid | 1.995 |
| Bore*Stroke | mm | 84*90 |
| Compression ratio | | 1.131 |
| Rated speed | r/min | 1500 |
| Rated net power(with fan) | Kw | 24 |
| Governor type | | Mechanical/Electrical |
| Start Motor | V | 24 |

Exhaust System

| | | |
|-------------------|---------------------|------|
| Exhaust gas flow | m ³ /min | 4.27 |
| Exhaust gas temp | °C | 410 |
| Max back pressure | kPa | 10 |

Aspiration System

| | | |
|--------------------|---------------------|------|
| Max inlet pressure | kPa | 5 |
| Combustion volume | m ³ /min | 1.98 |
| Air flow | m ³ /min | 136 |

Fuel System

| | | |
|------------------------|-----|------|
| 100% load(Prime power) | L/h | 4.99 |
| 75% load(Prime power) | L/h | 9.74 |
| 50% load(Prime power) | L/h | 2.5 |
| Fuel tank capacity | L | 125 |

Lubrication System

| | | |
|------------------------|-------|-----|
| Oil capacity | L | 7.4 |
| Oil consumption | g/kwh | 245 |
| Oil pressure | kPa | 345 |
| (continuous operation) | | |

Cooling System

| | | |
|----------------------------|----|-------|
| Coolant capacity | L | 21 |
| Thermostat operation range | °C | 82-95 |
| Max water temperature | °C | 104 |

Alternator

| | | |
|--------------------|---------|----------------------------|
| Model | FDIESEL | FD20Y |
| | | PI144D |
| Phase | | 3 |
| Voltage | V | 400/230 |
| Wiring Type | | 3 Phase 4 wire, Y type |
| Bearing | | 1 |
| Power factor | | 0.8 |
| Frequency | Hz | 50 |
| Prime power | KVA | 20 |
| Exciter Type | | Brushless, self-excitation |
| Voltage regulation | % | ±0.5 |
| Protection Grade | | IP 23 |
| Insulation grade | | H/H |
| Altitude | m | 1000 |

Controller-DEESEA

| | |
|-------|---------|
| Model | DSE6120 |
|-------|---------|

Protective functions:

- Low oil pressure
- High water temperature
- High/low voltage
- High Engine Temperature and Overspeed.
- Voltage regulator frequency regulator
- Emergency stop
- Start failure



Control Module Options



- Auto generator control module
- Control module with "Three Remote Control" functions
- ATS auto load transfer screen
- Synchronising control modules
- Power output cabinet

Standard Features

- Engine(DCEC Yanmar)
- Radiator 50°C max,fans are driven by bel
- 24V charge alternator
- Alternator: single bearing alternator IP23, insulation class H/H
- Standard auto control system
- One set of air filter, fuel filter, oil filter
- Main line circuit breaker/MCCB
- Base fuel tank
- Two 24V batteries, rac and cable
- Exhaust system(Ripple flex exhaust pipe, exhaust siphon, flange, muffler)
- User manual

Options

- Battery charge
- Engine heater
- Alternator heater
- PMG
- Water oil separator
- Daily fuel tank
- Remote control panel
- Automatic transfer switch/ATS
- Switch box
- Standard: Options:

Warranty*

Yanmar Engine

12 months from date of purchase and 1000 hours.

Generator

12 months from date of purchase or 1000 hours (whichever occurs first).



Unit Dimensions(Basic unit)

| | | |
|------------------|----|---------------|
| | | |
| Open Type | | |
| L*W*H | mm | 1630*730*1150 |
| Weight | kg | 635 |

| | | |
|--------------------|----|---------------|
| | | |
| Silent Type | | |
| L*W*H | mm | 2000*900*1250 |
| Weight | kg | 710 |

| | | |
|-----------------------|----|---------------|
| | | |
| Trailer Option | | |
| L*W*H | mm | 2425*1400*816 |
| Max loading weight | kg | 565 |