



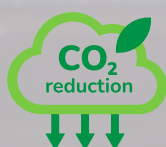
**ORIENTAL**  
*seamless electricity*

# INDUSTRIAL POWER GENERATOR

ORY-20S | ORY-20



# HIGH LIGHTS



Comply with  
**European III  
Emission Standards**

| Cat. | Net Power<br>(kW) | CO    | HC+NOx | PM  |
|------|-------------------|-------|--------|-----|
|      |                   | g/kWh |        |     |
| H    | 130 ≤ P ≤ 560     | 3.5   | 4.0    | 0.2 |
| I    | 75 ≤ P ≤ 130      | 5.0   | 4.0    | 0.3 |
| J    | 37 ≤ P ≤ 75       | 5.0   | 4.7    | 0.4 |
| K    | 19 ≤ P ≤ 37       | 5.5   | 7.5    | 0.6 |

## PROPERTIES

- Reliable, robust and versatile generator
- Low noises, low carbon emission
- Q235 Carbon Steel canopy with 2mm ultra thickness
- High protection standards, dustproof and waterproof
- User-friendly operation, simplified connection
- Stainless steel separate fuel tank supporting up to 8 hours continuous operation
- Open type genset equipped with 40 °C full copper radiator (red copper, the high grade copper)
- Canopy type genset equipped with 50 °C full copper radiator (red copper, the high grade copper)



## Genset Power

### 3 Phase / 1500 RPM / 50Hz

| Power | Prime Power  | Standby Power |
|-------|--------------|---------------|
|       | 16kW / 20kVA | 17kW / 22kVA  |

| Voltage (V) | Frequency (Hz) | Ampere (A) | Power Factor |
|-------------|----------------|------------|--------------|
| 380/220     | 50             | 30         | 0.8          |
| 400/230     | 50             | 28.8       | 0.8          |
| 415/240     | 50             | 27.8       | 0.8          |



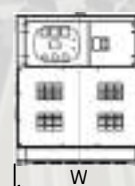
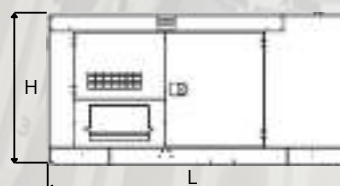
## Technical Specifications

|                          |           |                   |
|--------------------------|-----------|-------------------|
| Engine Brand & Model     |           | Yanmar 4TNV88-GTE |
| Alternator Brand & Model |           | Oriental OR-184ES |
| Control System           |           | Smartgen HGM6120N |
| Breaker Type             |           | CHINT MCCB        |
| Fuel Consumption (L/h)   | 100% Load | 7.0               |
|                          | 75% Load  | 5.2               |
|                          | 50% Load  | 3.3               |
|                          | 25% Load  | 1.6               |



## Dimension & Weight

| Data                 |   | Open Type Genset | Canopy Type Genset |
|----------------------|---|------------------|--------------------|
| Dimension (mm)       | L | 2000             | 2150               |
|                      | W | 1000             | 1000               |
|                      | H | 1300             | 1300               |
| Fuel Tank Volume (L) |   | 90               | 60                 |
| Weight (kg)          |   | 650              | 780                |



# GENSET SPECS

## YANMAR 4TNV88-GTE

|                      |              |                     |         |              |
|----------------------|--------------|---------------------|---------|--------------|
| No. of Cylinder      | 4            | Power Rating        | Standby | 27 kW        |
| Aspiration           | Turbocharged |                     | Prime   | 24 kW        |
| Bore / Stroke        | 88 / 90 mm   | Governor            |         | Mechanical   |
| Compression Ratio    | 17.3:1       | Governor Regulation |         | ≤ 5%         |
| Displacement         | 2.2 L        | Cooling             |         | Water-cooled |
| Lubricant            | 15W40 CF-4   | Coolant Capacity    |         | 8 L          |
| Lube System Capacity | 5.3 L        | Weight (wet)        |         | 165kg        |

## ORIENTAL OR-184ES

|                   |             |                   |         |
|-------------------|-------------|-------------------|---------|
| Rated Power (kVA) | 20          | Enclosure         | IP21    |
| Rated Power (kW)  | 16          | Insulation Class  | H       |
| Frequency         | 50 Hz       | Stator Winding    | 311     |
| Bearing           | Single      | Stator Connection | S. Star |
| Power Factor      | 0.8         | AVR               | SX460   |
| Winding           | 100% Copper | Mounting Type     | IMB15   |
| Ambient Temp.     | 40 °C       | Cooling Method    | IC01    |

## CONTROL SYSTEM



1. 132\*64 LCD display with backlight, optional language interface (Chinese, English, Spanish, Russian, Portuguese, Turkey, Polish and French), push-button operation;
2. Acrylic screen, improved wearability and scratch resistance property;
3. Silica-gel panel and keys can well adapt to higher and lower temperature;
4. With RS485 communication port, can achieve "three remote" functions via MODBUS protocol;
5. With CANBUS port which can be connected to electronic injection with J1939, it not only can monitor frequently-used data (such as water temperature, oil pressure, rotated speed and fuel consumption, etc.) but also can control start, stop, high speed and low speed (controller with CANBUS port is needed) via CANBUS port.
6. Adapt to 3P4W, 3P3W, 1P2W and 2P3W (120V/240V), 50Hz/60Hz AC power system;
7. Can measure and display 3 phase voltage, 3 phase current, frequency, power parameter of mains/gens;
8. Mains have functions of over/under voltage and lack of phase; Gens have functions of over/under voltage, over/under frequency, over current and over power;

# PRODUCT FEATURES

“rigid fuel tank fabricated with Mg-Zn alloy, just as tough as those quipped on prime mover truck”



## TOUGH

## SMART

“automatically start up whenever power supply is shut down”



“ultimate protection against earth leakage”



## SAFE

# **ORIENTAL** PRODUCT OVERVIEW



## OUR PROMISES

1. If any engine problem occurs due to defects in the material, design and manufacturing of the engine, our team will provide free or conditional free repair service.
2. The presented product is all brand new and has passed the rigorous factory testing.
3. The presented product is eligible for our company's standard warranty policy: 12 months from delivery date or 1000 running hours, whichever occurs first.
4. All aftersales services and parts can be supplied by our company.



Our company are constantly updating our product, all data may be updated without prior notice. Kindly please contact us or our dealers for latest information.



**Visit our official website for more info:**



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