## **ALTERNATOR**

| Frequency                       | 50 Hz     |
|---------------------------------|-----------|
| Power                           | 165 kVA   |
| Voltage                         | 400 V     |
| Nb of Phases                    | 3         |
| Aut. Voltage<br>Regulator (AVR) | AS440     |
| Voltage<br>Regulation           | ±1%       |
| Insulation Class                | Н         |
| Protection<br>Standard          | IP22-IP23 |
| Power Factor                    | 0.8 Cos   |
|                                 |           |

#### **ENGINE**

- PERKINS heavy duty diesel
- engine 12V / 24V starter and charge
- alternator
  Replaceable air, fuel and oil filters
  Mechanical governor control
  Tropical type radiator
  Flexible fuel hose

- Oil drain valve and extension höse Industrial type silencer and steel compensator Maintenance-free starter battery
- Water jacket heater 1500 rpm engine speed

# **DIMENSIONS & WEIGHT**

WITH CANOPY: Length L(mm) Width W (mm) Height H (mm):3150x1000x1700 Weight (Kg): 1950 FuelTank Capacity (L): 220

OPEN TYPE: Length L(mm) Width W (mm) Height H (mm):2550x1000x1600 Weight (Kg): 1710 FuelTank Capacity (L): 220

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

## **EAP-165 DIESEL GENERATOR SET**

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

**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.

# **GENERAL SPECIFICATIONS**

| Stand By Power: | 165 kVA – 132 kW |
|-----------------|------------------|
| Prime Power     | 150 kVA - 120 kW |
| Frequency       | 50 Hz            |
| Cooling System  | Water Cooling    |

### **ENGINE**

| Engine Model 1106A-70TAG2  Number of Cylinders 6 Inline  Injection System Direct  Compression Ratio 18.2:1  Bore 105 mm  Stroke 135 mm  Displacement 7.01 lt  Air Intake Turbo Intercooler  Speed (RPM) 1500 rpm  Oil Capacity 18 lt  Standby Power 149.1/202 kW/hp  Prime Power 136/184 kW/hp  Fuel Type Euro Diesel  Governor System Mechanical  Cooling System Water Cooling  Coolant Capacity 22 lt  Fuel Consumption Full Load  Fuel Consumption %75  Load  Fuel Consumption %50  Load  16.2 (lt/hr)  16.2 (lt/hr)  |                      |                     |
|--|----------------------|---------------------|
| Number of Cylinders6 InlineInjection SystemDirectCompression Ratio18.2:1Bore105 mmStroke135 mmDisplacement7.01 ltAir IntakeTurbo IntercoolerSpeed (RPM)1500 rpmOil Capacity18 ltStandby Power149.1/202 kW/hpPrime Power136/184 kW/hpFuel TypeEuro DieselGovernor SystemMechanicalCooling SystemWater CoolingCoolant Capacity22 ltFuel Consumption Full<br>Load33.2 (lt/hr)Fuel Consumption %75<br>Load24.5 (lt/hr)Fuel Consumption %5016.2 (lt/hr)   | Engine               | PERKINS             |
| Injection System  Compression Ratio  Bore  105 mm  Stroke  135 mm  Displacement  Air Intake  Turbo Intercooler  Speed (RPM)  Oil Capacity  Standby Power  149.1 / 202 kW / hp  Prime Power  Fuel Type  Governor System  Cooling System  Cooling System  Coolant Capacity  Fuel Consumption Full Load  Fuel Consumption %75 Load  Fuel Consumption %50  Direct  18.2 : 1  18.2 : 1  18.2 : 1  19.2 : 1  10.5 mm  136 / lk  Methanical  Water Cooling  316 / lk  Mechanical  33.2 (lt / hr)  24.5 (lt / hr)  | Engine Model         | 1106A-70TAG2        |
| Compression Ratio  Bore  105 mm  Stroke  135 mm  Displacement  Air Intake  Turbo Intercooler  Speed (RPM)  Oil Capacity  18 lt  Standby Power  Prime Power  136 / 184 kW / hp  Fuel Type  Euro Diesel  Governor System  Cooling System  Coolant Capacity  Fuel Consumption Full Load  Fuel Consumption %75 Load  Fuel Consumption %50  16.2 (lt / hr)  | Number of Cylinders  | 6 Inline            |
| Bore 105 mm  Stroke 135 mm  Displacement 7.01 lt  Air Intake Turbo Intercooler  Speed (RPM) 1500 rpm  Oil Capacity 18 lt  Standby Power 149.1 / 202 kW / hp  Prime Power 136 / 184 kW / hp  Fuel Type Euro Diesel  Governor System Mechanical  Cooling System Water Cooling  Coolant Capacity 22 lt  Fuel Consumption Full 33.2 (lt / hr)  Load  Fuel Consumption %75  Load  Fuel Consumption %50 16.2 (lt / hr)   | Injection System     | Direct              |
| Stroke  Displacement 7.01 lt  Air Intake Turbo Intercooler  Speed (RPM) 1500 rpm Oil Capacity 18 lt  Standby Power 149.1 / 202 kW / hp  Prime Power 136 / 184 kW / hp  Fuel Type Euro Diesel Governor System Mechanical Cooling System Water Cooling Coolant Capacity 22 lt  Fuel Consumption Full Load Fuel Consumption %75 Load Fuel Consumption %50 16.2 (lt / hr)  | Compression Ratio    | 18.2:1              |
| Displacement  Air Intake  Turbo Intercooler  Speed (RPM)  Oil Capacity  18 lt  Standby Power  149.1 / 202 kW / hp  Prime Power  136 / 184 kW / hp  Fuel Type  Euro Diesel  Governor System  Mechanical  Cooling System  Coolant Capacity  Tuel Consumption Full Load  Fuel Consumption %75 Load  Fuel Consumption %50  16.2 (lt / hr)  | Bore                 | 105 mm              |
| Air Intake  Speed (RPM)  Oil Capacity  18 lt  Standby Power  Prime Power  136 / 184 kW / hp  Fuel Type  Euro Diesel  Governor System  Cooling System  Coolant Capacity  Turbo Intercooler  18 lt  Load  Fuel Consumption Full  Load  Fuel Consumption %75  Load  Fuel Consumption %50  16.2 (lt / hr)  | Stroke               | 135 mm              |
| Speed (RPM)  Oil Capacity  18 lt  Standby Power  149.1 / 202 kW / hp  Prime Power  Fuel Type  Governor System  Cooling System  Coolant Capacity  Fuel Consumption Full Load  Fuel Consumption %75 Load  Fuel Consumption %50  1500 rpm  18 lt  149.1 / 202 kW / hp  Euro Diesel  Mechanical  Water Cooling  22 lt  Fuel Consumption Full 133.2 (lt / hr)  24.5 (lt / hr)   | Displacement         | 7.01 lt             |
| Oil Capacity  Standby Power  149.1 / 202 kW / hp  Prime Power  136 / 184 kW / hp  Fuel Type  Euro Diesel  Governor System  Mechanical  Cooling System  Water Cooling  Coolant Capacity  Fuel Consumption Full  Load  Fuel Consumption %75  Load  Fuel Consumption %50  16.2 (lt / hr)  | Air Intake           | Turbo Intercooler   |
| Standby Power 149.1 / 202 kW / hp  Prime Power 136 / 184 kW / hp  Fuel Type Euro Diesel  Governor System Mechanical  Cooling System Water Cooling  Coolant Capacity 22 lt  Fuel Consumption Full 33.2 (lt / hr)  Load Fuel Consumption %75  Load 16.2 (lt / hr)  | Speed (RPM)          | 1500 rpm            |
| Prime Power 136 / 184 kW / hp  Fuel Type Euro Diesel  Governor System Mechanical  Cooling System Water Cooling  Coolant Capacity 22 lt  Fuel Consumption Full 33.2 (lt / hr)  Load Fuel Consumption %75  Load Fuel Consumption %50 16.2 (lt / hr)  | Oil Capacity         | 18 lt               |
| Fuel Type  Governor System  Cooling System  Coolant Capacity  Fuel Consumption Full  Load  Fuel Consumption %75  Load  Fuel Consumption %50  Load  Fuel Consumption %50  Load  Fuel Consumption %50  Load  L | Standby Power        | 149.1 / 202 kW / hp |
| Governor System  Cooling System  Water Cooling  Coolant Capacity  Fuel Consumption Full Load  Fuel Consumption %75 Load  Fuel Consumption %50  16.2 (lt/hr)  | Prime Power          | 136 / 184 kW / hp   |
| Cooling System  Coolant Capacity  Fuel Consumption Full Load  Fuel Consumption %75 Load  Fuel Consumption %50  Mater Cooling  22 lt  33.2 (lt / hr)  24.5 (lt / hr)  16.2 (lt / hr)  | Fuel Type            | Euro Diesel         |
| Coolant Capacity  Fuel Consumption Full  Load  Fuel Consumption %75  Load  Fuel Consumption %50  22 lt  33.2 (lt / hr)  24.5 (lt / hr)  16.2 (lt / hr)   | Governor System      | Mechanical          |
| Fuel Consumption Full Load  Fuel Consumption %75 Load  Fuel Consumption %50  16.2 (lt / hr)  | Cooling System       | Water Cooling       |
| Load  Fuel Consumption %75  Load  Fuel Consumption %50  16.2 (lt / hr)   | Coolant Capacity     | 22 lt               |
| Fuel Consumption %75 Load  Fuel Consumption %50  16.2 (lt / hr)  |                      | 33.2 (lt / hr)      |
| Load Fuel Consumption %50  16.2 (lt / hr)  |                      | 24.5 (1.11.)        |
|  |                      | 24.5 (lt / hr)      |
| Load   | Fuel Consumption %50 | 16.2 (lt / hr)      |
|  | Load                 |                     |







