

| Generating Rates | | Prime | Standby |
|-----------------------|-----------------|---------|---------|
| Power | kVA | 50 | 55 |
| Power | kW | 40 | 44 |
| Current | (cos Phi=0,8) A | 72 | 79 |
| Standard Voltage | V | 400/231 | 400/231 |
| Revolution Per Minute | r.p.m | 1500 | 1500 |
| Rated At Power Factor | Cos Phi | 0,8 | 0,8 |

Standard Features

- ✓ 4 stroke 1500RPM, water cooled heavy duty diesel engine
- ✓ Dry type replacable air filter
- ✓ Heat-resistant radiator for 50 °C
- ✓ Flexible oil pipes and oil draining valve
- ✓ Pre-heater 4 poles synchrontype, single bearing, brushless alternator
- ✓ Batteries and cables
- ✓ Electrostatic paint coated, steel, welded chassis
- ✓ Fuel tank housed in the chassis Industrial type silencer
- ✓ Electronic battery charger
- ✓ Electrical wiring diagram
- ✓ User manual and operating manual
- ✓ Protection system on manual run
- ✓ Lubrication oil and anti – freeze

Optional Equipments

- ✓ Soundproof canopy
- ✓ Automatic transfer switch
- ✓ Circuit Breaker
- ✓ Trailer
- ✓ External fuel tank
- ✓ Electronic governor
- ✓ Heating system for fuel tank
- ✓ Oil heater
- ✓ Fuel filling system (Automatic / Manual)
- ✓ Analog indicators
- ✓ 1 Phase - 3 phase switch plugs
- ✓ Alarm system for fuel level
- ✓ Remote control and monitoring

Prime Power : Supplying of electrical power at variable load for an unlimited number of hours in the event of normal utility powerfailure according to ISO8528-1. 10% over load capability is available.

Stand By Power : Supplying of electrical power at variable load, in the event of normal utility power failure according to ISO8528-1. This rating is maximum power, no overload capability is available.

Engine Specifications

| | | |
|-------------------------------|------------|--------------------|
| Brand | | ALPHA |
| Model | | N4105DS-46 |
| Engine Power | (kWm / hp) | 46/63 |
| Revolution Per Min | (r.p.m) | 1500 |
| Total Displacement | (L) | 4,15 |
| Cylinders Orientation | | 4 Vertical In-line |
| Broke x Stroke | (mm x mm) | 105 x 120 |
| Compression Orientation | | 17:1 |
| Governor Type | | Mechanic |
| Aspiration System | | Natural |
| Injection | | Direct |
| Cooling | | Water Cooled |
| Electrical System | (VDC) | 12 |
| Lub-oil Capacity | (L) | 13 |
| Engine Coolant Capacity | (L) | 13 |
| Fuel Tank Capacity | (L) | 118 |
| Maximum Exhaust Temperature | (°C) | 600 |
| Maximum Exhaust Gas Flow | (m3/h) | N/A |
| Maximum Allowed Back Pressure | (kPa) | N/A |
| Cooling Air Flow | (m3/min) | N/A |
| Fuel Consumption 50 % | (L/h) | 6,8 |
| Fuel Consumption 75 % | (L/h) | 9,9 |
| Fuel Consumption 100 % | (L/h) | 12,8 |

✔ Replacable cylinder jacket

✔ Dry type replacable air filter

✔ Heat-resistant radiator for 50 °C

Alternator Specifications

| | | |
|--------------------------------|-----------|---------------|
| Standard Voltage | (V) | 400/231 |
| Frequency | (Hz) | 50 |
| Stationary Voltage Regulation | (±) | 1 |
| Short Circuit Current | | 300 |
| Insulation | | H |
| Protection | | IP 23 |
| Efficiency | (%) | 88 |
| Overloading | | 1 Hour - %110 |
| Rated At Power Factor | (cos Phi) | 0,8 |
| Total Harmonic Distortion Rate | | 3 |
| Connection Style | | Star |
| Number of Pole | | 4 |
| Number of Bearing | | Single |

✔ Self-cooled

✔ Electronic type automatic voltage regulator (AVR)

✔ 4 poles, self-excitation, brushless, synchrontype alternator

Dimensions Without Canopy and Weight

| | | |
|-------------------------|----|----------------|
| WIDTH x LENGTH x HEIGHT | mm | 1000x1735x1325 |
| Wet Weight | kg | 830 |

Dimensions With Canopy and Weight

| | | |
|-------------------------|----|----------------|
| WIDTH x LENGTH x HEIGHT | mm | 1000x2370x1710 |
| Wet Weight | kg | 1050 |



Control Panel Features

- ✔ Diesel and gas genset support
- ✔ 400Hz operation support
- ✔ 400 event logs full snapshot
- ✔ Multiple Automatic test program
- ✔ 3 level configuration password
- ✔ 128x64 graphical LCD display
- ✔ Downloadable language
- ✔ Waveform display of V&I
- ✔ Harmonic analysis of V&I
- ✔ Synchroscope & check synch
- ✔ 16 Amp MCB & GCB outputs
- ✔ 8 configurable digital outputs
- ✔ Outputs expandable to 40
- ✔ 4 configurable analog outputs
- ✔ Battery charge run enabled
- ✔ Weekly Operation Schedule
- ✔ Dual mutual standby with equal aging of gensets
- ✔ Manual speed fine adjust some ECU's
- ✔ Automatic fuel pumpcontrol
- ✔ Disable protection feature
- ✔ Excess protection power
- ✔ Reverse power protection
- ✔ Overload IDMT protection
- ✔ Load shedding, dummy load
- ✔ Multiple load management
- ✔ Waveform display of V&I
- ✔ Battery back-up real time clock
- ✔ Idle speed control
- ✔ All parameters front panel editable
- ✔ Multiple nominal conditions
- ✔ Contactor & MCB drive
- ✔ 4 quadrant genset power counters
- ✔ Mains power counters
- ✔ Fuel filling counter
- ✔ Fuel consumption counter
- ✔ Free configuration software
- ✔ Allow SMS controls
- ✔ Mobile genset support
- ✔ Automatic GSM geo-location
- ✔ GPS connectivity (USB & RS232)
- ✔ Modem & ethernet diagnostic
- ✔ Configurable through USB, RS-485, Ethernet and GPRS
- ✔ Ready for central monitoring Ethernet and GPRS