Annex (A)

Diesel Generator 1000 kVA Specifications
50Hz , 380V- 400V, 3 Phase 1500 RPM

Standard Specifications

Three phase four wires, output voltages 100-400V, 50HZ, between 0.8 lagging, protection capability abiding by the standards of NEMA1 and IP23.

General features:

- Make: Original manufacturer (Local Assembled Not acceptable)
- **Ambient temperature :** Maximum:55/C , Minimum:-10/C
- **Relative Humidity :** around 60% at maximum temperature
- **Altitude:** 1000M above MSL
- **System Voltage : 400V**
- **No of phase :** 3PH
- **Frequency:** 50Hz
- **Guarantee:** one year ,1000h / operation
- **Daily base tank** : 8hour operation base tank
- Oil and fuel filter fitted, water separator
- Lube-oil drain valve fitted
- Electric starter motor 24 V. D.C
- Output range: Prime-1000kVA / Standby-1100KVA
- Induction system: Turbocharged
- Key start / auto start
- Mechanical /Electrical governor
- 4 pole MCCB, set mounted starting battery
- Soundproof or weatherproof canopy
- Operation & Maintenance manual
- Special Integrated Steel Base tank and sprayed overall in gloss enamel paint

Dimensions & Weight with Enclosure

Overall size (L*W*H), mm: L
= 6000-6250 mm
W= 2250-2500 mm
H = 2500-2600 mm
Weight (kg): 9500-11000 kg

Engine Specifications

In-line direct injection 8-cylinder diesel engine.
Type
Water cooled, four cycle, Turbocharged
Construction
Two valves per cylinder, forged steel crankshaft and connecting rods,
cast iron block.
Starting 24 volt negative earth. battery charging
alternator 35 amp on engine. Cranking current 640
amps at 0_oc.
Fuel System
24 volt fail safe actuator. Spin-on paper
element fuel filters with Bosch fuel pump injection
system with integral

Electronic governor. Dual flexible fuel lines
And connectors. Standard fuel water separator.
Filters.
Air cleaner with dry element and restriction indicator. Spin
full flow lube oil filter.
Oil cooler. Drain Tap

Control Panels

Standard Control Function
  Under / Over Mains
Volts /Frequency
  External Remote control
start output (load /
un-load)
  Configurable relay
outputs
  Synchronization auto /
synchronization output
  All function telecom
remote control
  Engine and Alternator instrumentation monitor
  Configurable input trip point by 9 users
  4 user output trip point
  Control LCD brightness in low brightness
environment
  PIN password
  Send SMS via GSM modem
  Reflect load relay output
  Control vary trip point

ACALTERNATOR Alternator
Technical Data European
Type AC alternator
  Brushless, self exciting
  Class 'H' insulation
  Standard degree of protection is IP23
  Self regulating
  With fan cooling
  Resist humid grease
  AC excitation, rotating rectification tube
  Stator grease insulation covered
  Rotator and excitation high polymer, Resist the
corruption of oil and acid.
  Rotator balance is in accordance with BS5625
standard 12.5
  High-quality lubrication sealed long-time bearing
  Rotator silicon steel close tight

Alternator Technical Data

Generator Frame 18/22
Exciter Brushless
Cooling Fan Cast alloy aluminum
Bearing Single, double shielded
Windings 100% copper Connection
Type Reconnectable Insulation
Type Class H
Pitch 2/3
Amortisseur Winding Full
Voltage Regulator AS440 / R450 / R448
Voltage Regulation NL - FL ± 1.5%
Under speed Protection Standard
Overexcitation Protection IP23
Standards NEMA, IEC, IEEE, CSA, BS
Phase Sequence A(U), B(V), C(W)
TIF (1960 Weightings) <50

50HZ at 1500 RPM, 3-PHASE, 400V

(1) Available in the following voltages: 440/254-415/240V-400/230V-380/220V-220/127V-200/115V; (2) ISO 8528: Altitude: 1000m above sea level. Derating please contact us or refer to data sheets PRIME : Prime Power is available for an unlimited number of annual operating hours in variable load applications, in accordance
with ISO 8528-1. A 10% overload capability is available for a period of 1 hour within 12-hour period of operation, in accordance
with ISO 3046-1
STANDBY : The standby power rating is applicable for supplying emergency power in variable load applications in accordance with
ISO 8528-1. Overload is not allowed. This generator works normally at 55$_o$ C with derating.