

שמרלינג-סיינור

הנדסת אנרגיה בע"מ

DM300S

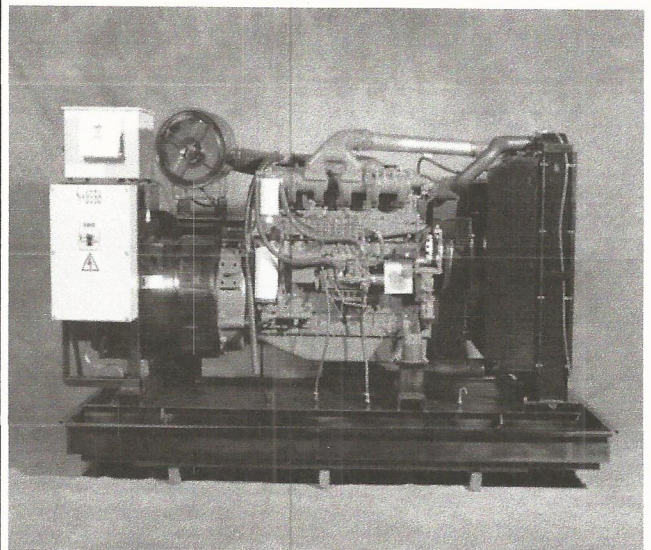
DIESEL GENSET

| MODEL | DM300S |
|------------------------|------------------|
| Stand-by Power @ 50 Hz | 240 kW / 300 kVA |
| Prime Power @ 50 Hz | 220 kW / 275 kVA |

Standard Features

General features :

- Engine (DOOSAN- P126TI-I)
- Charge alternator 24 V ,
- Alternator (MECCALTE ,ECO38-2LN/4)
- Single bearing alternator IP 23 , insulation class H /F
- Radiator 55°C air inlet with coolant cap
- Skid and vibration isolators
- Dry type air filter
- Main line circuit breaker
- Microprocessor control panel
- 24 V battery, rack and cable
- Industrial silencer
- User manual



Generator Ratings

| Voltage | HZ | Phase | P.F | Standby Amps | Standby Ratings kW/kVA | Prime Ratings kW/kVA |
|---------|----|-------|-----|--------------|------------------------|----------------------|
| 400/230 | 50 | 3 | 0.8 | 433 | 240 / 300 | 220 / 275 |

Stand-By ratings are available for the duration of any power outage. No overload capacity is specified at this ratings. Prime ratings are available per BS 5514, DIN 6271, ISO-3046 and IEC 34-1 with 10% overload capacity one hour in twelve hours.

אישור זמנית למוצרי שרת בניינים
 למחיר DM300S אלווראי

דף 22 ריסט

קוליסור השקפה דגל אקוסטי 65db ובאישור יו"ם אקוסטיקה
 אגוז עץ לני המאק עם האקזיפם
 איפן זמן קירני כפול א- 24 שנה

מוצב למח ורעם זיטלם

כני המאק כולל גגה רוק בעלם שומה

למזן הרקם זמלם בזמון אחרי דמקנה

הסכך אחיור וסופ א- 5 שנה לפני הביצוע

שמרלינג-סיינור
 הנדסת אנרגיה בע"מ

אורי זאב
 5/2/18

ENGINE DATA

| | |
|------------------------------------|---------------------------------------|
| Manufacturer / Model | DOOSAN - P126TI , 4-cycle, Turbo , AC |
| Cylinder Arrangement | 6 L |
| Displacement | 11.05L |
| Bore and Stroke | 123mm X 155mm |
| Compression ratio | 17 : 1 |
| Rated RPM | 1500 Rpm |
| Piston Speed | 7.75m/s |
| Max. stand by Power at rated RPM | 272 kW [364 BHP] |
| Speed Governor | Electronic |
| Frequency regulation, steady state | +/-0.25% |
| BMEP | 17.44bar |

Exhaust System

| | |
|---------------------|-----------|
| Exhaust gas flow | 715L/s |
| Exhaust temperature | 510°C |
| Max back pressure | 600 mm CE |

Fuel System

| | |
|---------------------------|----------|
| 110% (Stand By power) | 58.1 L/h |
| 100% (of the Prime Power) | 52.3 L/h |
| 75% (of the Prime Power) | 39.24L/h |
| 50% (of the Prime Power) | 27L/h |

Oil System

| | |
|---------------------------|---------|
| Total oil capacity | 23L |
| Oil Pressure low idle | 0.7bar |
| Oil Pressure rated RPM | 5bar |
| Oil consumption 100% load | 0.05L/h |

Thermal balance 100% load

| | |
|---------------------------|-------|
| Heat rejection to exhaust | 160kW |
| Radiated heat to ambient | 13kW |
| Heat rejection to coolant | 85kW |

Air intake

| | |
|-------------------------|-----------|
| Max. intake restriction | 635 mm CE |
| Engine air flow | 322 L/s |

Coolant System

| | |
|-----------------------------------|------------------------|
| Radiator & engine capacity | 60L |
| Max water temperature | 103°C |
| Outlet water temperature | 93°C |
| Fan power | 4 kW |
| Fan air flow | 6.16 m ³ /s |
| Available restriction on air flow | 60mm CE |
| Type of coolant | Gencool |
| Thermostat | 83-95 °C |

Emissions

| | |
|-----|-------------------------|
| HC | 14 mg/Nm ³ |
| CO | 37 mg/Nm ³ |
| Nox | 6240 mg/Nm ³ |
| PM | 11 mg/Nm ³ |

ALTERNATOR SPECIFICATIONS

GENERAL DATA

- Compliance with NEMA MG21, UTE NF C51.111, VDE 0530, BS 4999, CSA standards, VDE 0875 K
- Vacuum-impregnated windings with epoxy varnish.
 - IP23 drip proof.

ALTERNATOR DATA

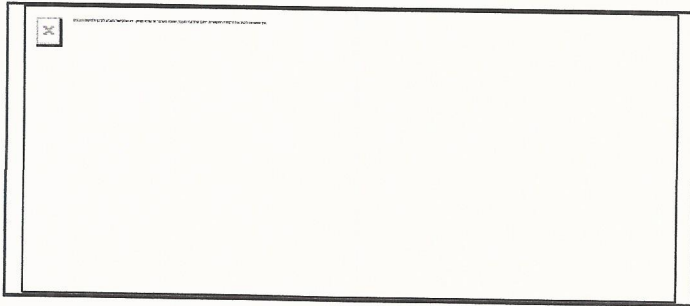
| | |
|--------------------------------------|----------------------|
| Manufacturer / Type | MECCALTE ECO38-2LN/4 |
| Number of phase | 3 |
| Power factor (Cos Phi) | 0.8 |
| Altitude | < 1000 m |
| Overspeed | 2250 rpm |
| Pole : number | 4 |
| Exciter type | AREP |
| Insulation : class, temperature rise | H / H |
| Voltage regulator | UVR6 |
| Sustained short circuit current | 3 IN = 20 SEC |
| Total harmonics (TGH/THC) | < 4% |
| Wave form : NEMA = TIF – TGH/THC | < 50 |
| Wave form : CEI = FHT – TGH/THC | < 2% |
| Bearing : number | 1 |
| Coupling | Direct |
| Voltage regulation 0 to 100% load | +/- 1% |

OTHER ALTERNATOR DATA

| | |
|---|-----------------------|
| Continuous nominal rating @ 40°C | 300 kVA |
| Standby rating | 330 kVA |
| Efficiencies @ 4/4 load | 93.7 % |
| Air flow | 0.53m ³ /s |
| Short circuit ratio;50 (Kcc) | 0.43 |
| Direct axis synchro reactance unsaturated (Xd) | 208 % |
| Quadra axis synchro reactance unsaturated (Xq) | 120 % |
| Open circuit time constant;50 (T'do) | 1400 ms |
| Direct axis transient reactance saturated (X'd) | 15.3 % |
| Short circuit transient time constant (T'd) | 91 ms |
| Direct axis subtransient reactance saturated (X''d) | 8.1 % |
| Subtransient time constant (T''d) | 12.5 ms |
| Quadra axis subtransient reactance saturated (X''q) | 20.8 % |
| Zero sequence reactance unsaturated (Xo) | 2.3 % |
| Negative sequence reactance saturated (X2) | 16.1 % |
| Armature time constant (Ta) | 16 ms |
| No load excitation current (io) | 0.78 A |
| Full load excitation current (ic) | 3.9 A |
| Full load excitation voltage (uc) | 36 V |
| Recovery time (Delta U = 20% transitoire) | 117 ms |
| Heat rejection | 16.13 kW |

Weight and Dimensions

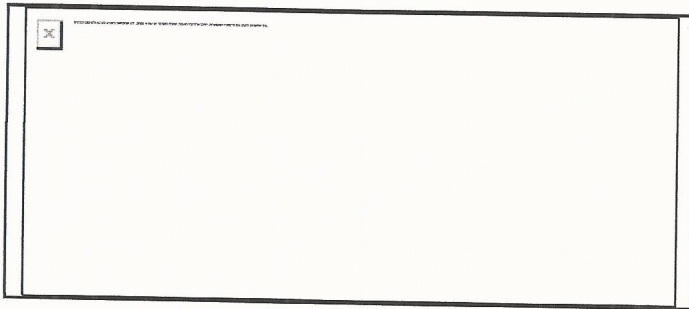
Open Model



Overall size l x w x h :
2800mm x 1000mm x 1600mm

Weight :
2335kg Net 2785 kg Brut

With Optional Enclosure



Overall size l x w x h :
5000mm x 1300mm x 2075mm

Weight :
3835kg Net 4185 kg Brut