

45KW / 56KVA
Stand-by Power @ 60Hz

41KW / 51KVA
Prime Power @ 60Hz



Standard Features :

- Engine EPA-CARB, electric starter, charge alternator 12V , mech. Gov.
- Single bearing alternator IP23, insulation class H/H
- Radiator 50°C (122°F) max. T° air inlet with coolant cap
- Skid and vibration isolators
- Dry type air filter
- Microprocessor controller
- Main line circuit breaker
- 12V battery, rack and cable
- Industrial silencer (loose)
- User manual

- q SDMO provides a full line of products with high quality recognized engines and alternators.
- q Each and every units is factory tested. All generator sets are also prototype tested.
- q Microprocessor Digital Control Panel is equipped as standard on all models. Options are available which meet most applications.
- q A one year limited warranty covers all systems and components. Two and five years extended are also available.
- q Service and parts are available from SDMO distributors as a single source of responsibility.

GENERATOR RATINGS

| Voltage | Hz | Phase | P.F | Standby Amps | Standby Ratings KW/KVA | Prime Ratings KW/KVA |
|----------|----|-------|-----|--------------|------------------------|----------------------|
| 480/277V | 60 | 3 | 0.8 | 67 | 45 / 56 | 41 / 51 |
| 440/254V | 60 | 3 | 0.8 | 73 | 45 / 56 | 41 / 51 |
| 220/127V | 60 | 3 | 0.8 | 147 | 45 / 56 | 41 / 51 |
| 208/120V | 60 | 3 | 0.8 | 155 | 45 / 56 | 41 / 51 |
| 600/347V | 60 | 3 | 0.8 | 54 | 45 / 56 | 41 / 51 |

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

ENGINE DATA

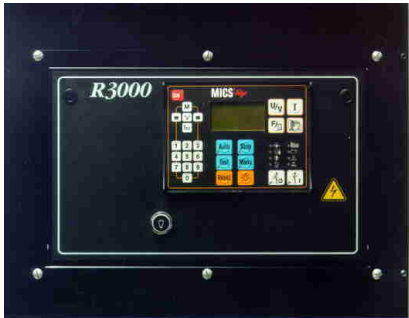
| | | | |
|---|--|--|--|
| Manufacturer : Model : Cylinder Arrangement : Displacement : Bore and Stroke : Compression ratio : Rated RPM : Piston Speed : Max. Power at rated RPM : Frequency regulation, no load to full load : Frequency regulation, steady state : BMEP : Governor : type, make | | JOHN DEERE 4045DF150E , 4-cycle, Athmo , NC 4 X L 4.48 L (273.4 C.I.) 106 mm (4.2 in.)x 127 mm (5.0 in.) 17.6 : 1 1800 Rpm 7.62 m/s (25.0 ft./s) 50 kW (67 BHP) 3-5 % 0.33 % 7.1 bar (103 psi) Mechanical | |
| Exhaust System Exhaust gas flow Exhaust temperature Max back pressure | | Air intake Max. intake restriction Engine air flow | |
| Fuel System 100% 75% 50% 25% Total fuel flow | | Coolant System Ambient Temperature Radiator & engine capacity Max water temperature Outlet water temperature Fan power Fan air flow Engine heat rejection | |
| Oil System Total oil capacity w/filters Oil Pressure low idle Oil Pressure rated RPM | | Emissions HC, gr/kwh (gr/BHP) CO, gr/kwh (gr/BHP) NOx, gr/kwh (gr/BHP) | |
| 150 L/s (318 cfm) 521 °C (970 °F) 750 mm CE (30 in. WG) | | 625 mm CE (25 in. WG) 53 L/s (112 cfm) | |
| 13.5 L/h (3.6 gal/hr) 10 L/h (2.6 gal/hr) 7.5 L/h (2.0 gal/hr) 112 L/h (29.6 gal/hr) | | 50°C (122°F) 18.9 L (5.0 gal) 105 °C (221 °F) 93 °C (199 °F) 3 kW 4 m ³ /s (8476 cfm) 40 kW (2274 Btu/mn) | |
| 13.5 L (3.6 gal) 1 bar (14.5 psi) 5 bar (72.5 psi) | | 0.65 (0.48) 2.24 (1.67) 8.20 (6.12) | |

ALTERNATOR SPECIFICATIONS

| | | |
|--|-------------|--|
| Manufacturer : | Leroy Somer | <ul style="list-style-type: none"> • Leroy Somer is a branch of Emerson Electric Inc. • Compliance with NEMA MG21, UTE NF C51.111, VDE 0530, BS 4999, CSA standards. • 2/3 pitch, 12 leads reconnectable. • Low reactance ($X''d < 12\%$). • Self protected against short circuit. • Vacuum-impregnated windings with epoxy varnish. IP23 drip proof • PMG is an option and allows sustained short circuit current of up to 300% of rated current for up to 10 seconds. |
| Type : | LSA432S3 | |
| Pole : number | 4 | |
| Exciter type : | Shunt | |
| Insulation : class, temperature rise | H / H | |
| Voltage regulator : | R230 | |
| Bearing : number, type : | 1 , Sealed | |
| Coupling : | Direct | |
| Voltage regulation 0 to 100% load : | +/- 1% | |
| Recovery time (20% Volt dip) ms : | 500 ms | |
| Reactance $X''d$, % : | 6.8 % | |
| Heat rejection KW : | 5.30 kW | |
| <i>Peak motor starting KVA :</i> (Maximum at 35% voltage dip) | | |
| 480V : SHUNT / With PMG | NC/ NC | |
| 600V : | NC | |

CONTROL PANEL

Microprocessor control panel is available on all the models. Compatible with 12 or 24 Volts Engine electrical systems.

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|  | <p>Standard features :</p> <p>AC voltmeter, AC ammeter, Frequency meter, Engine shutdown : Oil pressure, High water temperature, Low water level, Overspeed, Overcrank. Engine parameters : Oil pressure, Water temperature, Fuel level, Running time meter, Battery voltage. Emergency Stop Button, Internal clock. Communication via a RS485 for remote management (software is an option)</p> |
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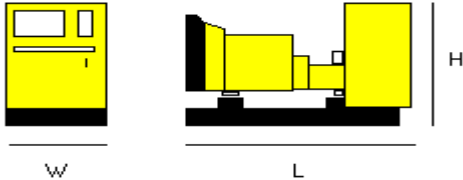
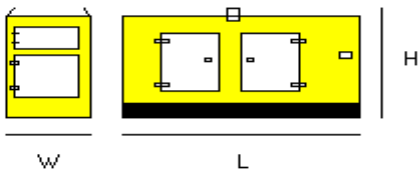
Optional :

- q NFPA 110 level 1
- q Remote annunciator for NFPA 110 Level 1

OPTIONS

| | | |
|---|--|---|
| <p>Engine and Radiator</p> <ul style="list-style-type: none"> q Isochronous governor q Heat shield protection q Oil drain extension q Heavy duty air filter q Lube oil drain pump q Radiator core guard q Battery charger q Block heater <p>Fuel</p> <ul style="list-style-type: none"> q Day tank q Subbase fuel tanks UL q Water separator fuel filter | <p>Alternator</p> <ul style="list-style-type: none"> q Anti condensation heater q Enforced impregnation q Oversized alternator q PMG + Regulator <p>Exhaust</p> <ul style="list-style-type: none"> q Residential silencer q Critical silencer q Flexible exhaust conn. <p>Enclosure</p> <ul style="list-style-type: none"> q Silent 71db @ 23 Ft (stby) q Weather protective | <p>Control panel</p> <ul style="list-style-type: none"> q NFPA110 level 1 q Remote annunciator q Oil temperature shutdown q Paralleling system <p>Literature</p> <ul style="list-style-type: none"> q Parts q Maintenance |
|---|--|---|

Weights and Dimensions

| | | | |
|--|---|---|------------------------------------|
| <p>Open model</p> <p>Overall size l x w x h : 1910 mm x 700 mm x 1425 mm 75 in. x 27 in. x 56 in.</p> <p>Weight : 950 Kg Net 1100 Kg ODM 2094 lbs Net 2424 lbs ODM</p> <div style="text-align: center;">  </div> | <p>Sound attenuated (silencer mounted inside)</p> <p>Overall size l x w x h : 2700 mm x 1070 mm x 1610 mm 106 in. x 42 in. x 63 in.</p> <p>Weight: 1380 Kg Net 1580 Kg ODM 3041 lbs Net 3482 lbs ODM</p> <div style="text-align: center;">  </div> | | |
| <p>Distributed By :</p> | <table style="width: 100%; border: none;"> <tr> <td style="width: 60%; text-align: center; border: none;"> <p>SDMO industries Head Office 12 rue de la Villeneuve BP 241 29272 BREST CEDEX FRANCE Fax : 0.11.33.2.98.41.1154 http://www.sdmo.com</p> </td> <td style="width: 40%; text-align: center; border: none;"> <p>North America Office</p> </td> </tr> </table> | <p>SDMO industries Head Office 12 rue de la Villeneuve BP 241 29272 BREST CEDEX FRANCE Fax : 0.11.33.2.98.41.1154 http://www.sdmo.com</p> | <p>North America Office</p> |
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