

J350U

Engine N/A , N/A
Alternator LEROY SOMER , LSA472VS2

STANDARD FEATURES

- Electronic governor
- Mechanically welded chassis with antivibration suspension
- Power circuit breaker
- Radiator for wiring T° of N/A max with mechanical fan
- Protective grille for fan and rotating parts
- 9dB(A) silencer supplied separately
- Charged DC starting battery with electrolyte
- 24 V charging alternator and starter
- Supplied with oil and coolant -30°C
- User manual and commissioning guide



| Voltage | Power ESP kWe/kVA | Power PRP kWe/kVA | Standby Amps | Dimensions | Weight |
|---------|----------------------|----------------------|-----------------|---|--|
| 480/277 | 350 / 438 | 319 / 398 | 527 | Length: 3160mm [124in] Width: 1340mm [53in] Height: 1790mm [70in] | 3090kg [6812 lbs] Net 3570kg [7871 lbs] Gross |
| 440/254 | 350 / 438 | 319 / 398 | 575 | | |
| 380/220 | 350 / 438 | 319 / 398 | 665 | | |
| 230/115 | 320 / 400 | 291 / 364 | 1004 | | |
| 220/127 | 350 / 438 | 319 / 398 | 1149 | | |
| 208/120 | 350 / 438 | 319 / 398 | 1216 | | |
| 600/347 | 350 / 438 | 319 / 398 | 421 | | |



POWER DEFINITION

PRP : 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 –

ESP : The standby power rating is applicable for supplying emergency power in variable load applications in accordance with ISO 8528-1. Overload is not allowed.

TERM OF USE

Standard reference conditions °C Air Intlet Temp, m A.S.L. 60 % relative humidity. All engine performance data based on the above mentioned maximum continuous ratings.

| Type | dB(A)@1m | dB(A)@7m | Dimensions | Weight | Tank |
|--|----------|----------|--|--|--------|
|  M228 | 81 | 71 | Length: 4475mm [176in] Width: 1410mm [56in] Height: 2430mm [96in] | 4220kg [9304lbs] Net 4690kg [10340lbs] Gross | 470 L |
|  M228-DW | 81 | 71 | Length: 4527mm [178in] Width: 1410mm [56in] Height: 2700mm [106in] | 4821kg [10628lbs] Net 6089kg [13424lbs] Gross | 1368 L |





ENGINE SPECIFICATIONS

| | | |
|----------------------|------------------------------------|-------------------------------------|
| STANDARD FEATURES | Manufacturer / Model | N/AN/A , 4-strokes, N/A , N/A N/A X |
| | Cylinder Arrangement | N/A |
| | Displacement | N/A |
| | Bore and Stroke | N/A X N/A |
| | Compression ratio | N/A |
| | Rated RPM | N/A |
| | Piston Speed | N/A |
| | Max. stand by Power at rated RPM | N/A |
| | Frequency regulation, steady state | N/A |
| | BMEP | N/A |
| Governor : type | N/A | |
| EXHAUST SYSTEM | Exhaust temperature | N/A |
| | Exhaust gas flow | N/A |
| | Max back pressure | N/A |
| FUEL SYSTEM | 110% (Stand By power) | N/A |
| | 100% (of the Prime Power) | N/A |
| | 75% (of the Prime Power) | N/A |
| | 50% (of the Prime Power) | N/A |
| | Max. fuel pump flow | N/A |
| OIL SYSTEM | Total oil capacity w/filters | N/A |
| | Oil Pressure low idle | N/A |
| | Oil Pressure rated RPM | N/A |
| | Oil consumption 100% load | N/A |
| | Oil capacity carter | N/A |
| THERMAL BALANCE | Heat rejection to exhaust | N/A |
| | Radiated heat to ambient | N/A |
| | Heat rejection to coolant | N/A |
| AIR INTAKE | Max. intake restriction | N/A |
| | Engine air flow | N/A |
| COOLANT SYSTEM | Radiator & engine capacity | N/A |
| | Max water temperature | N/A |
| | Outlet water temperature | N/A |
| | Fan power | N/A |
| | Fan air flow w/o restriction | N/A |
| | Available restriction on air flow | N/A |
| | Type of coolant | N/A |
| | Thermostat | N/A |
| EMISSIONS LEVEL | PM | N/A |
| | CO | N/A |
| | Nox | N/A |
| | HC | N/A |

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ALTERNATOR SPECIFICATIONS

| | | |
|---|---|----------------------|
| GENERAL DATAS | Manufacturer | LEROY SOMER |
| | Type | LSA472VS2 |
| | Number of phase | 3 |
| | Power factor (Cos Phi) | 0.8 |
| | Altitude | < 1000 m |
| | Overspeed | 2250 rpm |
| | Pole : number | 4 |
| | Exciter type | SHUNT |
| | Insulation : class, temperature rise | H / H |
| | Voltage regulator | R230 |
| | 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 | +/- 0.5% |
| | Recovery time (20% Volt dip) ms | 500 ms |
| SKVA with 90% of nominal sustained voltage (at 0.4PF) | N/A | |
| OTHER DATAS | Continuous nominal rating @ 40°C | 456 kVA |
| | Standby rating @ 27°C | 530 kVA |
| | Efficiencies @ 4/4 load | 93.3 % |
| | Air flow | 1.1m3/s [2330.76cfm] |
| | Short circuit ratio;50 (Kcc) | 0.36 |
| | Direct axis synchro reactance unsaturated (Xd) | 349 % |
| | Quadra axis synchro reactance unsaturated (Xq) | 209 % |
| | Open circuit time constant;50 (T'do) | 1738 ms |
| | Direct axis transient reactance saturated (X'd) | 20.1 % |
| | Short circuit transient time constant (T'd) | 100 ms |
| | Direct axis subtransient reactance saturated (X''d) | 16.1 % |
| | Subtransient time constant (T''d) | 10 ms |
| | Quadra axis subtransient reactance saturated (X''q) | 21.8 % |
| | Zero sequence reactance unsaturated (Xo) | 0.1 % |
| | Negative sequence reactance saturated (X2) | 19 % |
| | Armature time constant (Ta) | 15 ms |
| | No load excitation current (io) | 1 A |
| | Full load excitation current (ic) | 3.9 A |
| | Full load excitation voltage (uc) | 40 V |
| | Recovery time (Delta U = 20% transitoire) | 500 ms |
| | Motor start (Delta = 20% perm. Or 50% trans.) | 890 kVA |
| | Transient dip (4/4 charge) – PF : 1.8 AR | 17.3 % |
| | No load losses | 8.54 kW |
| Heat rejection | 25.65 kW | |



CONTROL PANEL

Standard



TELYS

Specifications :

- Frequency meter, Ammeter, Voltmeter
- Alarms and faults Oil pressure, water temperature, No start-up, Overspeed, Min/max alternator, Min/max battery voltage, Low fuel level, Emergency stop
- Engine parameters Hours counter, Oil pressure, Water temperature, Engine speed, Battery voltage, Fuel level

